

# Safety Data Sheets

All

All

Equipment Dept

01/11/2022

**Safety Data Sheet Index**  
**Binder: Equipment Dept - All**

| <b>Product Name</b>  | <b>Manufacturer Name</b>             | <b>Part Number</b> | <b>Version Date</b> | <b>Page</b> |
|--|--------------------------------------|--------------------|---------------------|-------------|
| 3752 ALMAGARD VARI-PURPOSE LUBRICANT   | Lubrication Engineers, Inc.          |                    | 05/08/2017          | 4           |
| 505 KEY TITE PIPE JOINT COMPOUND   | Industrial Polychemical Service      |                    | 03/01/1993          | 12          |
| 587  | John Tillman Co.                     |                    | 08/25/2015          | 15          |
| ANSUL ABC Multipurpose Dry Chemical Agent - Stored Pressure System           | Tyco Fire Protection Products        |                    | 02/13/2019          | 23          |
| BG 44K   | BG Products Inc.                     | 208                | 02/21/2018          | 32          |
| BG 44K   | BG PRODUCTS, INC.                    | 208                | 02/21/2018          | 46          |
| BG ATC PLUS  | BG PRODUCTS, INC.                    |                    | 07/15/2020          | 60          |
| BG ATC PLUS  | BG Products Inc.                     | 310                | 07/15/2020          | 72          |
| BG CF5   | BG PRODUCTS, INC.                    |                    | 04/20/2017          | 84          |
| BIG TEX  | MANTEK, DIVISION OF NCH CORP.        | 0003               | 05/03/2021          | 97          |
| CF5  | BG PRODUCTS, INC.                    |                    | 04/20/2017          | 102         |
| Clorox Commercial Solutions Clorox Disinfecting Wipes - Fresh Scent          | Clorox Professional Products Company |                    | 06/02/2020          | 115         |
| Clorox Commercial Solutions Clorox Disinfecting Wipes - Fresh Scent          | Clorox Professional Products Company |                    | 06/02/2020          | 123         |
| FORAY ABC Industrial Multi-Purpose Dry Chemical Stored Pressure Extinguisher | Tyco Fire Protection Products        |                    | 07/31/2017          | 131         |
| Formula 409 Antibacterial All-Purpose Cleaner                                | The Clorox Company                   |                    | 01/05/2015          | 141         |
| Formula 409 Antibacterial All-Purpose Cleaner                                | The Clorox Company                   |                    | 01/05/2015          | 150         |
| GLADE Super Fresh Spray  | Diversey, Inc.                       |                    | 10/03/2014          | 159         |
| GOJO NATURAL ORANGE Pumice Hand Cleaner - Skin-care                          | GOJO Industries, Inc.                |                    | 03/02/2015          | 164         |
| GOJO NATURAL* ORANGE Pumice Hand Cleaner                                     | Gojo Industries, Inc.                |                    | 10/19/2016          | 178         |
| GOLDENGLASS  | Steiner Industries                   |                    | 10/01/2015          | 190         |
| Heavy Duty Degreaser   | CRC Industries, Inc.                 | 1003364            | 12/19/2017          | 193         |

| Product Name                                   | Manufacturer Name                    | Part Number                                 | Version Date | Page |
|--|--------------------------------------|---|--------------|------|
| IC +SSPR 6PK GLOSS GLOSSY BLACK                | Rust-Oleum Corporation               |   | 08/15/2018   | 202  |
| IC +SSPR 6PK GLOSS GLOSSY WHITE                | Rust-Oleum Corporation               |   | 10/19/2018   | 209  |
| IC SSPR 6PK FLAT ZINC GALVANIZING COMPND       | Rust-Oleum Corporation               | 1685830                                     | 01/29/2021   | 216  |
| KCI Coolant Fluid                              | KCI, Inc.                            |   | 09/26/2018   | 222  |
| KCI Coolant Fluid                              | KCI, Inc.                            | CT1625501/CT1625502/<br>CT1625503           | 09/26/2018   | 229  |
| Marvel Air Tool Oil                            | Marvel Oil Company, Inc              | MM85R1 (50100),<br>MM080R (50093)           | 01/26/2017   | 236  |
| Marvel Air Tool Oil                            | Marvel Oil Company                   |   | 03/10/2015   | 244  |
| NAPA/CRC Diesel Fuel Conditioner w/Anti-Gel    | CRC Industries, Inc.                 | 8A, 00810                                   | 03/02/2017   | 252  |
| RIDGID Dark Thread Cutting Oil (United States) | Ridge Tool Company                   | 11471, 11491, 41590,<br>41600, 41610, 70830 | 05/02/2018   | 259  |
| RIDGID Dark Thread Cutting Oil (United States) | Ridge Tool Company                   | 11471, 11491, 41590,<br>41600, 41610, 70830 | 03/27/2017   | 269  |
| SPRA-GALV PRIMER                               | Seymour of Sycamore                  | 0000160845                                  | 01/11/2021   | 298  |
| SPRA-GALV PRIMER                               | Seymour of Sycamore                  | 0000160845                                  | 01/11/2021   | 302  |
| SUPER BIG TEX                                  | CERTIFIED LABS, DIV. OF<br>NCH CORP. |   | 04/22/2020   | 306  |
| WD-40 Bulk Liquid                              | WD-40 Company                        |   | 01/06/2012   | 311  |
| WD-40 Bulk Liquid                              | WD-40 Company                        |   | 04/12/2018   | 314  |

**SAFETY DATA SHEET**

SDS: 3752

**3752 ALMAGARD® VARI-PURPOSE  
LUBRICANT**

Issuing Date 04-24-2012

Revision Date 05-08-2017

Revision Number 6.2

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****Product Identifier****Product Name** 3752 ALMAGARD® VARI-PURPOSE LUBRICANT**Other means of identification****Synonyms** No information available**Recommended use of the chemical and restrictions on use****Identified uses** Lubricant**Uses advised against** Consumer use**Details of the supplier of the safety data sheet****Manufacturer**Lubrication Engineers Inc.  
1919 E. Tulsa  
Wichita, KS 67216  
USA  
800-537-7683**Emergency Telephone Number**CHEMTREC: 1-800-424-9300 (NORTH AMERICA)  
+1-703-527-3887 (INTERNATIONAL)



SDS: 3752

# 3752 ALMAGARD® VARI-PURPOSE LUBRICANT

Issuing Date 04-24-2012

Revision Date 05-08-2017

Revision Number 6.2

## 2. HAZARDS IDENTIFICATION

### Classification

#### **OSHA Regulatory Status**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

### Label Elements

#### **Emergency Overview**

##### **Signal Word**

None

##### **Hazard Statements**

None

The product contains no substances which at their given concentration, are considered to be hazardous to health

**appearance** red**Physical state** Paste**Odor** Hydrocarbon-like

#### **Precautionary Statements - Prevention**

None.

#### **Response**

None.

#### **Eyes**

None.

#### **Skin**

None.

#### **Inhalation**

None.

#### **Ingestion**

None.

#### **Fire**

None.

#### **Spill**

None.

#### **Storage**

None.

#### **Disposal**

None.

#### **Hazards not otherwise classified (HNOC)**

None

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

The producer of "3752" declares that it contains less than 3% DMSO extractable material by IP-346

SDS: 3752

# 3752 ALMAGARD® VARI-PURPOSE LUBRICANT

Issuing Date 04-24-2012

Revision Date 05-08-2017

Revision Number 6.2

## 4. FIRST AID MEASURES

### First Aid Measures

|                                   |  |
|-----------------------------------|--|
| <b>General Advice</b>             | If symptoms develop move victim to fresh air. Show this safety data sheet to the doctor in attendance. Do not breathe dust/fume/gas/mist/vapors/spray. |
| <b>Eye Contact</b>                | Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing. Call a physician if irritation persists.              |
| <b>Skin Contact</b>               | Consult a physician if necessary. Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.                      |
| <b>Inhalation</b>                 | Move to fresh air. If symptoms persist, call a physician.  |
| <b>Ingestion</b>                  | Drink plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician.                             |
| <b>Protection of First-aiders</b> | Use personal protective equipment.   |

### Most important symptoms and effects, both acute and delayed

**Symptoms** None known.

### Indication of any immediate medical attention and special treatment needed

**Notes to Physician** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

|  |   |
|--|---|
| <b>Flash Point</b>   | 204 °C / 400 °F   |
| <b>Suitable Extinguishing Media</b>                          | Water spray, Carbon dioxide (CO2), Foam, Dry chemical                     |
| <b>Unsuitable Extinguishing Media</b>                        | Do not use a solid water stream as it may scatter and spread fire.        |
| <b>Specific Hazards Arising from the Chemical</b>            | Thermal decomposition can lead to release of irritating gases and vapors. |
| <b>Explosion Data</b>  |   |
| <b>Sensitivity to Mechanical Impact</b>                      | Not impact sensitive.   |
| <b>Sensitivity to Static Discharge</b>                       | May be ignited by friction, heat, sparks or flames.                       |
| <b>Protective Equipment and Precautions for Firefighters</b> | Wear self-contained breathing apparatus and protective suit.              |

**NFPA**                      **Health hazard** 1                      **Flammability** 1                      **Stability** 1

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal Precautions** Do not touch or walk through spilled material. Remove all sources of ignition.

### Environmental Precautions

SDS: 3752

# 3752 ALMAGARD® VARI-PURPOSE LUBRICANT

Issuing Date 04-24-2012

Revision Date 05-08-2017

Revision Number 6.2

**Environmental Precautions** Prevent entry into waterways, sewers, basements or confined areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

## Methods and material for containment and cleaning up

**Methods for Containment** Prevent further leakage or spillage if safe to do so. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

**Methods for Cleaning up** Use personal protective equipment. Take up mechanically and collect in suitable container for disposal. Clean contaminated surface thoroughly.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Advice on safe handling** Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Prevent vapor buildup by providing adequate ventilation during and after use. Do not eat, drink or smoke when using this product.

### Conditions for safe storage, including any incompatibilities

**Technical measures/Storage conditions** Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children.

**Incompatible products.** Strong oxidizing agents. Strong acids. Strong bases.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure Guidelines

| Chemical Name                                 | ACGIH TLV                  | OSHA PEL   | NIOSH IDLH   |
|---|----------------------------|--|--|
| antimony dialkyldithiocarbamate<br>15890-25-2 | TWA: 0.5 mg/m <sup>3</sup> | TWA: 0.5 mg/m <sup>3</sup><br>(vacated) TWA: 0.5 mg/m <sup>3</sup> | IDLH: 50 mg/m <sup>3</sup><br>TWA: 0.5 mg/m <sup>3</sup> |

### Appropriate engineering controls

**Engineering Measures** Showers  
Eyewash stations  
Ventilation systems.

### Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Tightly fitting safety goggles.

**Skin and Body Protection** Long sleeved clothing. Protective gloves.

**Respiratory Protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

SDS: 3752

# 3752 ALMAGARD® VARI-PURPOSE LUBRICANT

Issuing Date 04-24-2012

Revision Date 05-08-2017

Revision Number 6.2

|                                  |                          |
|----------------------------------|--------------------------|
| <b>Physical state appearance</b> | Paste<br>red             |
| <b>Odor</b>                      | Hydrocarbon-like         |
| <b>Odor threshold</b>            | No information available |

Property

pH  
Melting point/freezing point  
Boiling Point/Range  
Flash Point  
Vapor pressure  
Vapor Density  
Specific Gravity  
Water solubility  
Partition Coefficient: n-octanol/water  
Autoignition Temperature  
Decomposition Temperature  
Viscosity, kinematic

Property

6 - 8  
No data available  
no data available  
204 °C / 400 °F  
No data available  
< 1 ( Air = 1 )  
0.95  
negligible  
no data available  
No data available  
No data available  
not applicable

## 10. STABILITY AND REACTIVITY

reactivity No information available

Chemical stability Stable under recommended storage conditions.

Possibility of Hazardous Reactions None under normal processing.

Conditions to Avoid Heat, flames and sparks. Contact with other chemicals

Incompatible Materials Strong oxidizing agents. Strong acids. Strong bases.

Hazardous Decomposition Products Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke)

## 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

|                            |  |
|----------------------------|--|
| <b>Product Information</b> | Product does not present an acute toxicity hazard based on known or supplied information |
| <b>Inhalation</b>          | May cause irritation of respiratory tract.   |
| <b>Eye Contact</b>         | Contact with eyes may cause irritation.  |
| <b>Skin Contact</b>        | May cause irritation.  |
| <b>Ingestion</b>           | There is no data available for this product.   |

Component Information No information available

Information on toxicological effects

**Symptoms** No information available.

SDS: 3752

# 3752 ALMAGARD® VARI-PURPOSE LUBRICANT

Issuing Date 04-24-2012

Revision Date 05-08-2017

Revision Number 6.2

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

The producer of "3752" declares that it contains less than 3% DMSO extractable material by IP-346

|                              |  |
|------------------------------|--|
| <b>Sensitization</b>         | No information available.                                      |
| <b>Mutagenic Effects</b>     | No information available.                                      |
| <b>Carcinogenicity</b>       | No information available.                                      |
| <b>Reproductive toxicity</b> | No information available.                                      |
| <b>Target Organ Effects</b>  | Respiratory system, Eyes, Skin, Central Vascular System (CVS). |

## Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document .

|                               |              |
|-------------------------------|--------------|
| ATEmix (oral)                 | 506011 mg/kg |
| ATEmix (dermal)               | 6159 mg/kg   |
| ATEmix (inhalation-dust/mist) | 271377 mg/l  |

## 12. ECOLOGICAL INFORMATION

|   |   |
|---|---|
| <b><u>Marine Pollutant</u></b>              | This product contains a chemical which is listed as a severe marine pollutant according to DOT. |
| <b><u>Ecotoxicity</u></b>                   | None known  |
| <b><u>Persistence and Degradability</u></b> | No information available.   |
| <b><u>Bioaccumulation</u></b>               | No information available.   |
| <b><u>Mobility</u></b>                      | The product is insoluble and floats on water.   |

| Chemical Name           | Log Pow |
|-------------------------|---------|
| Isobutylene<br>115-11-7 | 2.11    |
| Propylene<br>115-07-1   | <=2.8   |

**Other Adverse Effects** No information available

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

|                               |  |
|-------------------------------|--|
| <b>Waste Disposal Methods</b> | Dispose of in accordance with local regulations.   |
| <b>Contaminated Packaging</b> | Do not re-use empty containers. Empty containers should be taken to an approved waste handling site for recycling or disposal. |

SDS: 3752

# 3752 ALMAGARD® VARI-PURPOSE LUBRICANT

Issuing Date 04-24-2012

Revision Date 05-08-2017

Revision Number 6.2

This product contains one or more substances that are listed with the State of California as a hazardous waste

| Chemical Name                                 | California Hazardous Waste Status |
|---|-----------------------------------|
| antimony dialkyldithiocarbamate<br>15890-25-2 | Toxic                             |
| Zinc diamyldithiocarbamate<br>15337-18-5      | Toxic                             |

## 14. TRANSPORT INFORMATION

DOT Not regulated

## 15. REGULATORY INFORMATION

### International Inventories

|          |                |
|----------|----------------|
| TSCA     | Complies       |
| DSL/NDSL | Complies       |
| NDSL     | Not determined |
| EINECS   | Not determined |
| ELINCS   | Not determined |
| ENCS     | Not determined |
| IECSC    | Complies       |
| KECL     | Not determined |
| PICCS    | Complies       |
| AICS     | Complies       |

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

### U.S. Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

| Chemical Name                                | CAS-No     | Weight % | SARA 313 - Threshold Values % |
|--|------------|----------|-------------------------------|
| antimony dialkyldithiocarbamate - 15890-25-2 | 15890-25-2 | 1.86     | 1.0                           |
| Zinc diamyldithiocarbamate - 15337-18-5      | 15337-18-5 | 0.25     | 1.0                           |

SDS: 3752

# 3752 ALMAGARD® VARI-PURPOSE LUBRICANT

Issuing Date 04-24-2012

Revision Date 05-08-2017

Revision Number 6.2

**SARA 311/312 Hazard Categories**

|                                   |     |
|-----------------------------------|-----|
| Acute Health Hazard               | Yes |
| Chronic Health Hazard             | No  |
| Fire Hazard                       | No  |
| Sudden Release of Pressure Hazard | No  |
| Reactive Hazard                   | No  |

**Clean Water Act**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

| Chemical Name                                 | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|---|-----------------------------|------------------------|---------------------------|----------------------------|
| antimony dialkyldithiocarbamate<br>15890-25-2 |                             | X                      |                           |                            |
| Zinc diamyldithiocarbamate<br>15337-18-5      |                             | X                      |                           |                            |

**CERCLA**

This material does not contain any components with a CERCLA RQ.

**U.S. State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

This product does not contain any substances regulated by state right-to-know regulations

## 16. OTHER INFORMATION

Issuing Date 04-24-2012  
 Revision Date 05-08-2017  
 Reason for revision Update to Format.

**Disclaimer**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

SDS is available at [www.LElubricants.com](http://www.LElubricants.com)

**End of Safety Data Sheet**

## INDUSTRIAL POLYCHEMICAL SERVICE -- 505 KEY TITE PIPE JOINT COMPOUND -- 8040-00N052839

## ===== Product Identification =====

Product ID:505 KEY TITE PIPE JOINT COMPOUND  
MSDS Date:03/01/1993  
FSC:8040  
NIIN:00N052839  
MSDS Number: BWZKV  
=== Responsible Party ===  
Company Name:INDUSTRIAL POLYCHEMICAL SERVICE  
Address:17109 S MAIN  
Box:379  
City:GARDENA  
State:CA  
ZIP:90248  
Country:US  
Info Phone Num:213-321-6515  
Emergency Phone Num:213-222-3212 800-424-9300(CHEMTREC)  
Preparer's Name:GEORGE BLANCO  
CAGE:17510

## === Contractor Identification ===

Company Name:IPS CORPORATION  
Address:17109 S. MAIN ST.,  
Box:379  
City:GARDENA  
State:CA  
ZIP:90248  
Country:US  
Phone:310-898-3300  
CAGE:17510

## ===== Composition/Information on Ingredients =====

Ingred Name:PIGMENTS(NON-HAZARDOUS)  
Fraction by Wt: 50%  
Other REC Limits:NONE RECOMMENDED

Ingred Name:LINSEED OIL  
CAS:8001-26-1  
RTECS #:OI9690000  
Fraction by Wt: 47%  
Other REC Limits:NONE RECOMMENDED

Ingred Name:XYLENES (O-,M-,P- ISOMERS) (SARA 313) (CERCLA)  
CAS:1330-20-7  
RTECS #:ZE2100000  
Fraction by Wt: 3%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:100 PPM  
ACGIH TLV:100 PPM/150STEL;9495  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:VOLATILE ORGANIC CONTENT<42GM/L  
RTECS #:9999999V0  
Other REC Limits:NONE RECOMMENDED

## ===== Hazards Identification =====

Routes of Entry: Inhalation:NO Skin:YES Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:EYES:MAY CAUSE IRRITATION.SKIN:MAY  
CAUSE IRRITATION.INGEST:LOW ORDER OF TOXICITY.MAY CAUSE GI TRACT



IRRITATION.INHAL:NOT REPORTED.

Explanation of Carcinogenicity:THERE ARE NO INGREDIENTS ABOVE 0.1% WHICH ARE IDENTIFIED AS CARCINOGENS BY NTP,IARC OR OSHA.

Effects of Overexposure:EYES/SKIN:IRRITATION.

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

=====  
First Aid Measures  
=====

First Aid:SKIN:REMOVE CONTAMINATED CLOTHING;WASH WITH SOAP AND WATER.EYES:FLUSH WITH WATER FOR 15 MINUTES.GET MEDICAL ATTENTION IF IRRITATION PERSISTS.INHAL:REMOVE TO FRESH AIR.GIVE OXYGEN OR ARTIFICIAL RESPIRATION IF NEEDED.INGEST:DO NOT INDUCE VOMITING.GET PROMPT QUALIFIED MEDICAL ATTENTION.IF CONSCIOUS,DRINK PLENTY OF WATER.

=====  
Fire Fighting Measures  
=====

Flash Point Method:COC  
Flash Point:180F,82C  
Extinguishing Media:WATER,DRY CHEMICAL,CARBON DIOXIDE,FOAM.  
Fire Fighting Procedures:USE A SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE EQUIPMENT.COOL FIRE EXPOSED CONTAINERS WITH WATER FOG.  
Unusual Fire/Explosion Hazard:FIRE CONDITIONS MAY EVOLVE TOXIC FUMES.

=====  
Accidental Release Measures  
=====

Spill Release Procedures:ELIMINATE SOURCES OF IGNITION.USE PROPER RESPIRATORY AND PROTECTIVE EQUIPMENT.VENTILATE AREA.SOAK UP WITH A NON-COMBUSTIBLE INERT ABSORBANT(CLAY,SAND);PLACE IN PROPER CONTAINER FOR DISPOSAL.DO NOT CONTAMINATE GROUND OR WATERWAYS.  
Neutralizing Agent:NOT APPLICABLE.

=====  
Handling and Storage  
=====

Handling and Storage Precautions:STORE IN A COOL,DRY,WELL-VENTILATED PLACE.KEEP CONTAINER CLOSED WHEN NOT IN USE.KEEP AWAY FROM HEAT,SPARKS,FLAMES AND INCOMPATIBLE MATERIALS.  
Other Precautions:GROUND CONTAINERS WHEN TRANSFERRING LIQUID;FLOWING HYDROCARBONS CAN BECOME ELECTROSTATICALLY CHARGED.

=====  
Exposure Controls/Personal Protection  
=====

Respiratory Protection:WHERE ENVIRONMENTAL CONTROLS ARE LACKING OR IN ENCLOSED SPACES USE A SELF-CONTAINED BREATHING APPARATUS.  
Ventilation:LOCAL VENTILATION AT THE WORKSITE;MECHANICAL(GENERAL) VENTILATION TO MAINTAIN TLV/PEL.  
Protective Gloves:RUBBER  
Eye Protection:CHEMICAL SPLASH GOGGLES  
Other Protective Equipment:PROTECTIVE CLOTHING,AS NEEDED.PROVIDE A LOCAL EYE WASH STATION AND SAFETY SHOWER.  
Work Hygienic Practices:WASH HANDS.SEPERATE WORK CLOTHES FROM STREET CLOTHES.LAUNDER WORK CLOTHES BEFORE REUSE.KEEP FOOD OUT OF THE WORK AREA.  
Supplemental Safety and Health  
PREVIOUS MSDS,DATED 06SEP94,ENTERED BY FP-N WAS REDONE BY HMIS ON THIS DATE.

=====  
Physical/Chemical Properties  
=====

HCC:V4  
Spec Gravity:<1  
Evaporation Rate & Reference:>4 (NO REFERENCE GIVEN)  
Solubility in Water:SLIGHT  
Appearance and Odor:LIQUID,SEMI-SOLID;GREEN;LINSEED OIL ODOR.

=====  
Stability and Reactivity Data  
=====

Stability Indicator/Materials to Avoid: YES

AVOID CONTACT WITH HYDROCARBON SOLVENTS (THIS PRODUCT IS SOLUBLE IN HYDROCARBON SOLVENTS).

Stability Condition to Avoid: HIGH HEAT, SOURCES OF IGNITION.

Hazardous Decomposition Products: CARBON DIOXIDE, CARBON MONOXIDE.

=====  
Disposal Considerations  
=====

Waste Disposal Methods: DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

Disclaimer (provided with this information by the compiling agencies):

This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.



# Safety Data Sheet

587

SDS Revision Date:

08/25/2015

## 1. Identification

### 1.1. Product identifier

**Product Identity** 587

**Alternate Names** 587

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Intended use** See Technical Data Sheet.

**Application Method** See Technical Data Sheet.

### 1.3. Details of the supplier of the safety data sheet

**Company Name** John Tillman Company  
1300 W. Artesia Blvd.  
Compton, CA 90220. USA

### Emergency

**24 hour Emergency Telephone No.** 310-764-0110

**Customer Service:** 310-764-0110

## 2. Hazard(s) identification

### 2.1. Classification of the substance or mixture

Eye Irrit. 2;H319 May cause eye irritation.

### 2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.



**Warning**

H319 May cause eye irritation.

### [Prevention]:

P264 Wash thoroughly after handling.

P280 Wear protective gloves / eye protection / face protection.

### [Response]:

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

P337+313 If eye irritation persists: Get medical advice / attention.

### [Storage]:



**TILLMAN™**  
The Brand Pros Demand

## Safety Data Sheet

587

SDS Revision Date:

08/25/2015

No GHS storage statements

**[Disposal]:**

No GHS disposal statements

### 3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

| Ingredient/Chemical Designations          | Weight % | GHS Classification | Notes |
|---|----------|--------------------|-------|
| Fibrous glass<br>CAS Number: 0065997-17-3 | 100      | Eye Irrit. 2;H319  | [1]   |

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

\*The full texts of the phrases are shown in Section 16.

### 4. First aid measures

#### 4.1. Description of first aid measures

|                   |   |
|-------------------|---|
| <b>General</b>    | In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. |
| <b>Inhalation</b> | Drink water to clear throat, blow nose to evacuate fibers.  |
| <b>Eyes</b>       | Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.              |
| <b>Skin</b>       | Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.                       |
| <b>Ingestion</b>  | If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.  |

#### 4.2. Most important symptoms and effects, both acute and delayed

|                 |   |
|-----------------|---|
| <b>Overview</b> | Exposure with the product may cause skin, eye, and respiratory tract irritation. See section 2 for further details. |
| <b>Eyes</b>     | May cause eye irritation.   |

### 5. Fire-fighting measures

#### 5.1. Extinguishing media

Water, carbon dioxide, or dry chemical.



**5.2. Special hazards arising from the substance or mixture**

Hazardous decomposition: Carbon monoxide, carbon dioxide

**5.3. Advice for fire-fighters**

Thermal decomposition of fiber coating may produce an Irritating mixture of smoke and fumes. Fire fighters should wear full protective gear including NIOSH approved self-contained breathing apparatus.

**ERG Guide No.** ----

**6. Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

Put on appropriate personal protective equipment (see section 8).

**6.2. Environmental precautions**

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

**6.3. Methods and material for containment and cleaning up**

Prevent the spread of fiberglass dust & avoid dust generation conditions. Those involved in clean up of particulates should use appropriate personal protective equipment. Vacuum clean dusts. If sweeping is necessary, use a dust suppressant.

**7. Handling and storage**

**7.1. Precautions for safe handling**

See section 2 for further details. - [Prevention]:

**7.2. Conditions for safe storage, including any incompatibilities**

Store and use in a manner that will prevent airborne particulates in the workplace.

Incompatible materials: Strong oxidizing agents.

See section 2 for further details. - [Storage]:

**7.3. Specific end use(s)**

No data available.

**8. Exposure controls and personal protection**

**8.1. Control parameters**

**Exposure**

| CAS No.      | Ingredient           | Source | Value  |
|--------------|----------------------|--------|--|
| 0065997-17-3 | Fibrous glass, glass | OSHA   | 15 mg/m <sup>3</sup> (as nuisance dust)5 mg/m <sup>3</sup> (respirable fraction) |
|              |                      | ACGIH  | 10 mg/m <sup>3</sup> (as nuisance dust)5 mg/m <sup>3</sup> (respirable fraction) |
|              |                      | NIOSH  | No Established Limit   |



|  |  |          |                      |
|--|--|----------|----------------------|
|  |  | Supplier | No Established Limit |
|--|--|----------|----------------------|

**Carcinogen Data**

| CAS No.      | Ingredient           | Source | Value  |
|--------------|----------------------|--------|--|
| 0065997-17-3 | Fibrous glass, glass | OSHA   | Select Carcinogen: No  |
|              |                      | NTP    | Known: No; Suspected: No   |
|              |                      | IARC   | Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No; |

**8.2. Exposure controls**

- Respiratory** Where dust level exceeds the TLV, use NIOSH approved respirator to protect against nuisance dusts.
- Eyes** Safety glasses with side shield goggles.
- Skin** Work aprons or smocks are recommended. Wear loose fitting long sleeved clothing. NIOSH approved air supplied or self contained respirator. Protective Gloves and barrier creams if necessary.
- Engineering Controls** Local Exhaust Recommended for processing machinery where dust generation is apparent. Mechanical exhaust is acceptable where local exhaust is not feasible.
- Other Work Practices** Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. - [Prevention]:

**9. Physical and chemical properties**

|  |  |
|--|--|
| <b>Appearance</b>                                      | Plain Weave Heavy Weight Fiberglass Fabric   |
| <b>Odor</b>  | No smell   |
| <b>Odor threshold</b>                                  | Not determined   |
| <b>pH</b>  | Not Measured   |
| <b>Melting point / freezing point</b>                  | > 1000°F   |
| <b>Initial boiling point and boiling range</b>         | Not Measured   |
| <b>Flash Point</b>                                     | 250°C (TOC)  |
| <b>Evaporation rate (Ether = 1)</b>                    | Not Measured   |
| <b>Flammability (solid, gas)</b>                       | Not Applicable   |
| <b>Upper/lower flammability or explosive limits</b>    | <b>Lower Explosive Limit:</b> Not Measured<br><b>Upper Explosive Limit:</b> Not Measured |
| <b>Vapor pressure (Pa)</b>                             | Not Measured   |
| <b>Vapor Density</b>                                   | Not Measured   |
| <b>Specific Gravity</b>                                | 2.5  |
| <b>Solubility in Water</b>                             | None   |
| <b>Partition coefficient n-octanol/water (Log Kow)</b> | Not Measured   |
| <b>Auto-ignition temperature</b>                       | Not Measured   |
| <b>Decomposition temperature</b>                       | Not Measured   |
| <b>Viscosity (cSt)</b>                                 | Not Measured   |



**9.2. Other information**

No other relevant information.

**10. Stability and reactivity**

**10.1. Reactivity**

Hazardous Polymerization will not occur.

**10.2. Chemical stability**

Stable under normal circumstances.

**10.3. Possibility of hazardous reactions**

No data available.

**10.4. Conditions to avoid**

No data available.

**10.5. Incompatible materials**

Strong oxidizing agents.

**10.6. Hazardous decomposition products**

Carbon monoxide, carbon dioxide

**11. Toxicological information**

**Acute toxicity**

| Ingredient                          | Oral LD50, mg/kg  | Skin LD50, mg/kg  | Inhalation Vapor LC50, mg/L/4hr | Inhalation Dust LC50, mg/L/4hr | Inhalation Gas LC50, ppm |
|-------------------------------------|-------------------|-------------------|---------------------------------|--------------------------------|--------------------------|
| Fibrous glass, glass - (65997-17-3) | No data available | No data available | No data available               | No data available              | No data available        |

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

| Classification                | Category | Hazard Description             |
|-------------------------------|----------|--------------------------------|
| Acute toxicity (oral)         | ---      | Not Applicable                 |
| Acute toxicity (dermal)       | ---      | Not Applicable                 |
| Acute toxicity (inhalation)   | ---      | Not Applicable                 |
| Skin corrosion/irritation     | ---      | Not Applicable                 |
| Serious eye damage/irritation | 2        | Causes serious eye irritation. |
| Respiratory sensitization     | ---      | Not Applicable                 |



|                        |     |                |
|------------------------|-----|----------------|
| Skin sensitization     | --- | Not Applicable |
| Germ cell mutagenicity | --- | Not Applicable |
| Carcinogenicity        | --- | Not Applicable |
| Reproductive toxicity  | --- | Not Applicable |
| STOT-single exposure   | --- | Not Applicable |
| STOT-repeated exposure | --- | Not Applicable |
| Aspiration hazard      | --- | Not Applicable |

## 12. Ecological information

### 12.1. Toxicity

No additional information provided for this product. See Section 3 for chemical specific data.

### Aquatic Ecotoxicity

| Ingredient                          | 96 hr LC50 fish, mg/l | 48 hr EC50 crustacea, mg/l | ErC50 algae, mg/l |
|-------------------------------------|-----------------------|----------------------------|-------------------|
| Fibrous glass, glass - (65997-17-3) | Not Available         | Not Available              | Not Available     |

### 12.2. Persistence and degradability

There is no data available on the preparation itself.

### 12.3. Bioaccumulative potential

Not Measured

### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

### 12.6. Other adverse effects

No data available.

## 13. Disposal considerations

### 13.1. Waste treatment methods

In most cases, woven fiberglass scrap can be disposed of in a sanitary landfill in accordance with Federal, State, & local regulations. Check with local authorities any questions concerning disposal.

## 14. Transport information

|                        | DOT (Domestic Surface Transportation) | IMO / IMDG (Ocean Transportation) | ICAO/IATA     |
|------------------------|---------------------------------------|-----------------------------------|---------------|
| <b>14.1. UN number</b> | Not Applicable                        | Not Regulated                     | Not Regulated |





|   |   |   |                                  |
|---|---|---|----------------------------------|
| <b>14.2. UN proper shipping name</b>      | Not Regulated                           | Not Regulated   | Not Regulated                    |
| <b>14.3. Transport hazard class(es)</b>   | <b>DOT Hazard Class:</b> Not Applicable | <b>IMDG:</b> Not Applicable<br><b>Sub Class:</b> Not Applicable | <b>Air Class:</b> Not Applicable |
| <b>14.4. Packing group</b>                | Not Applicable                          | Not Applicable  | Not Applicable                   |
| <b>14.5. Environmental hazards</b>        |   |   |                                  |
| <b>IMDG</b>                               | Marine Pollutant: No                    |   |                                  |
| <b>14.6. Special precautions for user</b> |   |   |                                  |
| No further information                    |   |   |                                  |

**15. Regulatory information**

**Regulatory Overview** The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

**Toxic Substance Control Act ( TSCA)** All components of this material are either listed or exempt from listing on the TSCA Inventory.

**WHMIS Classification** D2B

**US EPA Tier II Hazards**

**Fire:** No  
**Sudden Release of Pressure:** No  
**Reactive:** No  
**Immediate (Acute):** Yes  
**Delayed (Chronic):** No

**EPCRA 311/312 Chemicals and RQs:**  
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**EPCRA 302 Extremely Hazardous:**  
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**EPCRA 313 Toxic Chemicals:**  
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Carcinogens (>0.0%):**  
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Developmental Toxins (>0.0%):**  
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Female Repro Toxins (>0.0%):**  
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Male Repro Toxins (>0.0%):**  
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**New Jersey RTK Substances (>1%) :**  
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Pennsylvania RTK Substances (>1%) :**  
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**16. Other information**

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein.



**TILLMAN™**  
*The Brand Pros Demand*

## Safety Data Sheet

**587**

**SDS Revision Date:**

**08/25/2015**

We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H319 Causes serious eye irritation.

End of Document



## Safety Data Sheet

This safety data sheet complies with the requirements of: 2012 OSHA Hazard Communication Standard ( 29CFR 1910.1200)

**Product name** ANSUL ABC Multipurpose Dry Chemical Agent - Stored Pressure System

### 1. Identification

#### 1.1. Product Identifier

**Product name** ANSUL ABC Multipurpose Dry Chemical Agent - Stored Pressure System

#### 1.2. Other means of identification

**Product code** 435028  
**UN/ID no** UN1044  
**Synonyms** None  
**Chemical Family** No information available

#### 1.3. Recommended use of the chemical and restrictions on use

**Recommended use** No information available.  
**Uses advised against** Consumer use.

#### 1.4. Details of the Supplier of the Safety Data Sheet

**Company Name** Tyco Fire Protection Products  
One Stanton Street  
Marinette, WI 54143-2542  
Telephone: 715-735-7411  
**Contact point** Product Stewardship at 1-715-735-7411  
**E-mail address** psra@tycofp.com

#### 1.5. Emergency Telephone Number

**Emergency telephone** CHEMTREC 001-800-424-9300 or 001-703-527-3887

### 2. Hazards Identification

#### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Simple asphyxiants  
Gases Under Pressure - Compressed Gas

#### 2.2. Label Elements

##### Signal Word

WARNING

##### Hazard Statements

May displace oxygen and cause rapid suffocation  
Contains gas under pressure; may explode if heated





Product code 435028

/ Product name ANSUL ABC /  
Multipurpose Dry Chemical Agent -  
Stored Pressure System

PAGE 2 / 9

## Precautionary Statements

### Storage

Protect from sunlight. Store in a well-ventilated place.

### 2.3. Hazards Not Otherwise Classified (HNOC)

Not Applicable.

### 2.4. Other Information

## 3. Composition/information on Ingredients

### 3.1. Mixture

The following component(s) in this product are considered hazardous under applicable OSHA(USA)

| Chemical name     | CAS No.    | weight-% |
|-------------------|------------|----------|
| Attapulgit        | 12174-11-7 | 1 - 5    |
| Calcium carbonate | 471-34-1   | 1 - 5    |

## 4. First aid measures

### 4.1. Description of first aid measures

#### General Advice

Call 911 or emergency medical service. Remove and isolate contaminated clothing and shoes.

#### Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists: Get medical advice/attention.

#### Skin contact

In case of contact with liquefied gas, thaw frosted parts with lukewarm water.

#### Inhalation

Move victim to fresh air. If breathing is irregular or stopped, administer artificial respiration. Administer oxygen if breathing is difficult.

#### Ingestion

If swallowed: Call a POISON CENTER or doctor/physician if you feel unwell.

#### Self-Protection of the First Aider

Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

### 4.2. Most Important Symptoms and Effects, Both Acute and Delayed

#### Symptoms

None known.

### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

#### Note to physicians

Keep victim warm and quiet.

## 5. Fire-fighting measures

### 5.1. Suitable Extinguishing Media

Use extinguishing agent suitable for type of surrounding fire. Dry chemical or CO2. Water spray, fog or regular foam.



Product code 435028

/ Product name ANSUL ABC /  
Multipurpose Dry Chemical Agent -  
Stored Pressure System

PAGE 3 / 9

### **5.2. Unsuitable Extinguishing Media**

None.

### **5.3. Specific Hazards Arising from the Chemical**

Ruptured cylinders may rocket. Some may burn but none ignite readily.

### **5.4. Explosion Data**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

### **5.5. Protective Equipment and Precautions for Firefighters**

Move containers from fire area if you can do it without risk. Damaged cylinders should be handled only by specialists.

## **6. Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

**Personal Precautions** Do not touch or walk through spilled material. Stop leak if you can do it without risk.

**OTHER INFORMATION** Ventilate the area.

**For emergency responders** Use personal protection recommended in Section 8.

### **6.2. Environmental Precautions**

**Environmental Precautions** Use water spray to reduce vapors or divert vapor cloud drift. Avoid allowing water runoff to contact spilled material. Prevent entry into waterways, sewers, basements or confined areas. See Section 12 for additional Ecological Information.

### **6.3. Methods and material for containment and cleaning up**

**Methods for Containment** If possible, turn leaking containers so that gas escapes rather than liquid. Allow substance to evaporate.

**Methods for Cleaning Up** Use personal protective equipment as required. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Take up mechanically, placing in appropriate containers for disposal. Avoid creating dust. Clean contaminated surface thoroughly.

## **7. Handling and Storage**

### **7.1. Precautions for Safe Handling**

**Advice on safe handling** Avoid generation of dust. Do not breathe dust/fume/gas/mist/vapors/spray. Use with local exhaust ventilation. Use personal protective equipment as required. Wash thoroughly after handling.

### **7.2. Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Store in a well-ventilated place. Keep cool. Keep container tightly closed. Guard against dust accumulation of material. Use care in handling/storage. Pressurized extinguishers



Product code 435028

/ Product name ANSUL ABC /  
Multipurpose Dry Chemical Agent -  
Stored Pressure System

PAGE 4 / 9

should be properly stored and secured to prevent falling or being knocked over.

**Incompatible Materials** Strong acids.

## 8. Exposure Controls/Personal Protection

### 8.1. Control Parameters

#### Exposure guidelines

| Chemical name                 | ACGIH TLV   | OSHA PEL | NIOSH IDLH  | Mexico OEL |
|-------------------------------|---|----------|---|------------|
| Attapulgit<br>12174-11-7      | TWA: 1 mg/m <sup>3</sup> respirable<br>particulate matter | -        | -   | -          |
| Calcium carbonate<br>471-34-1 | -   | -        | TWA: 10 mg/m <sup>3</sup> total dust<br>TWA: 5 mg/m <sup>3</sup> respirable<br>dust | -          |

ACGIH (American Conference of Governmental Industrial Hygienists) OSHA (Occupational Safety and Health Administration of the US Department of Labor): NIOSH IDLH Immediately Dangerous to Life or Health

### 8.2. Appropriate Engineering Controls

**Engineering controls** Ensure adequate ventilation, especially in confined areas.

### 8.3. Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Avoid contact with eyes. Tight sealing safety goggles.

**Skin and Body Protection** No special precautions are needed in handling this material.

**Respiratory Protection** In case of insufficient ventilation, wear suitable respiratory equipment.

**Ventilation** Use local exhaust or general dilution ventilation to control exposure with applicable limits

### 8.4. General hygiene considerations

Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and Chemical Properties

### 9.1. Information on basic physical and chemical properties

|                       |                   |              |        |
|-----------------------|-------------------|--------------|--------|
| <b>Physical State</b> | powder            | <b>Color</b> | Yellow |
| <b>Odor</b>           | odorless          |              |        |
| <b>Odor Threshold</b> | No data available |              |        |

| <u>Property</u>               | <u>Values</u>     | <u>Remarks • Method</u> |
|-------------------------------|-------------------|-------------------------|
| pH                            | No data available |                         |
| Melting point/freezing point  | No data available |                         |
| Boiling point / boiling range | No data available |                         |
| Flash Point                   | No data available |                         |
| Evaporation Rate              | No data available |                         |
| Flammability (solid, gas)     | No data available |                         |
| Flammability limit in air     |                   |                         |
| Upper flammability limit:     | No data available |                         |
| Lower flammability limit:     | No data available |                         |



Product code 435028

/ Product name ANSUL ABC /  
Multipurpose Dry Chemical Agent -  
Stored Pressure System

PAGE 5 / 9

|                              |                   |
|------------------------------|-------------------|
| Vapor Pressure               | No data available |
| Vapor Density                | No data available |
| Specific gravity             | No data available |
| Water Solubility             | No data available |
| Solubility in Other Solvents | No data available |
| Partition coefficient        | No data available |
| Autoignition Temperature     | No data available |
| Decomposition Temperature    | No data available |
| Kinematic viscosity          | No data available |

## 10. Stability and Reactivity

### 10.1. Chemical Stability

Stable under recommended storage conditions.

### 10.2. Reactivity

No data available

### 10.3. Possibility of hazardous reactions

Hazardous polymerization does not occur.

|                                 |  |
|---------------------------------|--|
| <b>Hazardous Polymerization</b> | Hazardous polymerization does not occur. |
|---------------------------------|--|

### 10.4. Conditions to Avoid

None known based on information supplied.

### 10.5. Incompatible Materials

Strong acids.

### 10.6. Hazardous decomposition products

Carbon oxides. Nitrogen oxides (NO<sub>x</sub>).

## 11. Toxicological Information

### 11.1. Information on Likely Routes of Exposure

#### Product information

|                     |   |
|---------------------|---|
| <b>Inhalation</b>   | May cause irritation of respiratory tract.          |
| <b>Eye Contact</b>  | May cause irritation.                               |
| <b>Skin contact</b> | May cause irritation.                               |
| <b>Ingestion</b>    | Ingestion may cause irritation to mucous membranes. |

#### Component Information

##### Acute Toxicity



Product code 435028

/ Product name ANSUL ABC /  
 Multipurpose Dry Chemical Agent -  
 Stored Pressure System

PAGE 6 / 9

| Chemical name                 | Oral LD50            | Dermal LD50 | Inhalation LC50 |
|-------------------------------|----------------------|-------------|-----------------|
| Calcium carbonate<br>471-34-1 | = 6450 mg/kg ( Rat ) | -           | -               |

**11.2. Information on Toxicological Effects**

**Symptoms** No information available.

**11.3.** Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Carcinogenicity** Attapulgite (palygorskite fibers) is a hydrated magnesium aluminum silicate. Long palygorskite (attapulgite) fibers (>5 micrometers) are possibly carcinogenic to humans (Group 2B). Short palygorskite (attapulgite) fibers (<5 micrometers) cannot be classified as to their carcinogenicity to humans (Group 3). The attapulgite present in this product contains fibers 0.5-2.5 um range, so would be considered by IARC as Group 3. This product contains crystalline silica (quartz) in a non-respirable form. Inhalation of crystalline silica is unlikely to occur from exposure to this product.

| Chemical name             | ACGIH | IARC    | NTP | OSHA |
|---------------------------|-------|---------|-----|------|
| Attapulgite<br>12174-11-7 | -     | Group 3 | -   | X    |

*IARC (International Agency for Research on Cancer)  
 Group 3 - Not Classifiable as to Carcinogenicity in Humans  
 OSHA (Occupational Safety and Health Administration of the US Department of Labor)  
 X - Present*

**Reproductive Toxicity** No information available.  
**STOT - Single Exposure** No information available.  
**STOT - Repeated Exposure** No information available.  
**Target organ effects** Eyes, Respiratory System, Skin.  
**Aspiration Hazard** No information available.

**11.4. Numerical Measures of Toxicity - Product information**

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (dermal) 8156 mg/kg

**12. Ecological Information**

**12.1. Ecotoxicity**

Not classified.

| Chemical name                            | Algae/aquatic plants  | Fish   | Crustacea   |
|--|-----------------------|--|---|
| Ammonium sulfate, technical<br>7783-20-2 | -                     | LC50 96 h 460 - 1000 mg/L<br>Leuciscus idus static; LC50 96 h<br>123 - 128 mg/L Poecilia reticulata<br>semi-static; LC50 96 h = 126 mg/L<br>Poecilia reticulata; LC50 96 h > 100<br>mg/L Pimephales promelas; LC50<br>96 h 32.2 - 41.9 mg/L<br>Oncorhynchus mykiss flow-through;<br>LC50 96 h 5.2 - 8.2 mg/L<br>Oncorhynchus mykiss static; LC50<br>96 h = 18 mg/L Cyprinus carpio;<br>LC50 96 h = 480 mg/L Brachydanio<br>rerio flow-through; LC50 96 h = 420<br>mg/L Brachydanio rerio semi-static;<br>LC50 96 h = 250 mg/L Brachydanio<br>rerio | LC50 48 h = 14 mg/L Daphnia<br>magna; EC50 24 h = 423 mg/L<br>Daphnia magna |
| Silicic Acid/silica gel, Amorphous       | EC50 (72h) = 440 mg/L | LC50 (96h) static = 5000 mg/L  | EC50 (48h) = 7600 mg/L  |





Product code 435028

/ Product name ANSUL ABC /  
Multipurpose Dry Chemical Agent -  
Stored Pressure System

PAGE 7 / 9

|           |                                 |                   |                    |
|-----------|---------------------------------|-------------------|--------------------|
| 7631-86-9 | Pseudokirchneriella subcapitata | Brachydanio rerio | Ceriodaphnia dubia |
|-----------|---------------------------------|-------------------|--------------------|

### 12.2. Persistence and Degradability

No information available.

### 12.3. Bioaccumulation

No information available.

### 12.4. Other Adverse Effects

No information available

## **13. Disposal Considerations**

### 13.1. Waste Treatment Methods

#### **Disposal of wastes**

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

#### **Contaminated Packaging**

Do not reuse container. Pressurized container: Do not pierce or burn, even after use.

## **14. Transport Information**

### DOT

|                                 |                                 |
|---------------------------------|---------------------------------|
| UN/ID no                        | UN1044                          |
| Proper Shipping Name            | Fire extinguishers              |
| Description                     | UN1044, Fire extinguishers, 2.2 |
| Hazard class                    | 2.2                             |
| Special Provisions              | 18, 110                         |
| Emergency Response Guide Number | 126                             |

### TDG

|                      |                                 |
|----------------------|---------------------------------|
| UN/ID no             | UN1044                          |
| Description          | UN1044, Fire extinguishers, 2.2 |
| Proper Shipping Name | Fire extinguishers              |
| Hazard class         | 2.2                             |

### MEX

|                      |                                 |
|----------------------|---------------------------------|
| UN/ID no             | UN1044                          |
| Description          | UN1044, Fire extinguishers, 2.2 |
| Proper Shipping Name | Fire extinguishers              |
| Hazard class         | 2.2                             |

### ICAO (air)

|             |                                 |
|-------------|---------------------------------|
| UN/ID no    | UN1044                          |
| Description | UN1044, Fire extinguishers, 2.2 |



Product code 435028

/ Product name ANSUL ABC /  
Multipurpose Dry Chemical Agent -  
Stored Pressure System

PAGE 8 / 9

**Proper Shipping Name** Fire extinguishers  
**Hazard class** 2.2  
**Special Provisions** A19

**IATA**

**UN/ID no** UN1044  
**Description** UN1044, Fire extinguishers, 2.2  
**Proper Shipping Name** Fire extinguishers  
**Hazard class** 2.2  
**ERG Code** 2L  
**Special Provisions** A19

**IMDG**

**UN/ID no** UN1044  
**Description** UN1044, Fire extinguishers, 2.2  
**Proper Shipping Name** Fire extinguishers  
**Hazard class** 2.2  
**EmS-No** F-C, S-V  
**Special Provisions** 225

**15. Regulatory Information**

**15.1. International Inventories**

**TSCA** Complies  
**DSL/NDSL** Complies  
**ENCS** Does not comply  
**IECSC** Complies  
**KECL** Does not comply  
**PICCS** Complies  
**AICS** Complies

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

**15.2. US Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

| Chemical name                             | SARA 313 - Threshold Values % |
|---|-------------------------------|
| Ammonium dihydrogen phosphate - 7722-76-1 | 1.0                           |
| Ammonium sulfate, technical - 7783-20-2   | 1.0                           |

**SARA 311/312 Hazard Categories**

**Acute Health Hazard** No  
**Chronic health hazard** No  
**Fire Hazard** No  
**Sudden Release of Pressure Hazard** Yes  
**Reactive Hazard** No



Product code 435028

/ Product name ANSUL ABC /  
Multipurpose Dry Chemical Agent -  
Stored Pressure System

PAGE 9 / 9

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**15.3. US State Regulations**

**California Proposition 65**

This product contains the following Proposition 65 chemicals

| Chemical name            | California Proposition 65 |
|--------------------------|---------------------------|
| Attapulgite - 12174-11-7 | Carcinogen                |

**U.S. State Right-to-Know Regulations**

| Chemical name                                   | New Jersey | Massachusetts | Pennsylvania |
|---|------------|---------------|--------------|
| Silicic Acid/silica gel, Amorphous<br>7631-86-9 | -          | X             | X            |
| Magnesium carbonate<br>546-93-0                 | X          | X             | -            |

**16. Other information, including date of preparation of the last revision**

|             |                  |                |                    |                                    |
|-------------|------------------|----------------|--------------------|------------------------------------|
| <b>NFPA</b> | Health Hazards 0 | Flammability 0 | Instability 0      | Physical and chemical properties - |
| <b>HMIS</b> | Health Hazards 0 | Flammability 0 | Physical Hazards 3 | Personal Protection X              |

Revision date 13-Feb-2019

Revision note No information available.

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

# SAFETY DATA SHEET

BG 44K®



## 1. Product and company identification

**Manufacturer** : BG Products Inc.  
701 S. Wichita Street  
Wichita, KS, 67213, USA  
www.bgprod.com

### Relevant identified uses of the substance or mixture and uses advised against

#### Identified uses

Fuel additives

**MSDS #** : 208  
**Validation date** : 2/21/2018  
**Responsible name** : Kolin Anglin, Regulatory Compliance Coordinator  
316-265-2686  
msds@bgprod.com  
**In case of emergency** : (800) 424-9300 (CHEMTREC)

## 2. Hazards identification

**OSHA/HCS status** : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Classification of the substance or mixture** : FLAMMABLE LIQUIDS - Category 3  
ACUTE TOXICITY (inhalation) - Category 4  
EYE IRRITATION - Category 2A  
CARCINOGENICITY - Category 2  
ASPIRATION HAZARD - Category 1  
Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 78.1%

### GHS label elements

#### Hazard pictograms



**Signal word** : Danger

**Hazard statements** : Flammable liquid and vapor.  
Harmful if inhaled.  
Causes serious eye irritation.  
Suspected of causing cancer.  
May be fatal if swallowed and enters airways.

### Precautionary statements

**Prevention** : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves: > 8 hours (breakthrough time): Solvent. Chemical-resistant gloves. (EN 374) thickness (minimum) (0.4 mm). Wear eye or face protection: Recommended: safety glasses with side-shields (EN 166). Wear protective clothing: Recommended: Wear work clothing with long sleeves.. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Wash hands thoroughly after handling.

## 2. Hazards identification

**Response** : IF exposed or concerned: Get medical attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

**Storage** : Store locked up. Store in a well-ventilated place. Keep cool.

**Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Hazards not otherwise classified** : None known.

## 3. Composition/information on ingredients

**Substance/mixture** : Mixture

**Other means of identification** : Not available.

### CAS number/other identifiers

**CAS number** : Not applicable.

**Product code** : 208

| Name                                    | CAS number | %         |
|---|------------|-----------|
| Naphtha (petroleum), hydrotreated heavy | 64742-48-9 | 15 - 40   |
| Stoddard solvent                        | 8052-41-3  | 10 - 30   |
| 1,2,4-trimethylbenzene                  | 95-63-6    | 1 - 5     |
| naphthalene                             | 91-20-3    | 0.5 - 1.5 |

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.**

## 4. First aid measures

### Description of necessary first aid measures

**Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

**Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

## 4. First aid measures

**Ingestion** : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

**Eye contact** : Causes serious eye irritation.  
**Inhalation** : Harmful if inhaled.  
**Skin contact** : No known significant effects or critical hazards.  
**Ingestion** : May be fatal if swallowed and enters airways.

#### Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:  
 pain or irritation  
 watering  
 redness

**Inhalation** : No specific data.  
**Skin contact** : No specific data.  
**Ingestion** : Adverse symptoms may include the following:  
 nausea or vomiting

### Indication of immediate medical attention and special treatment needed, if necessary

**Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments** : No specific treatment.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

## 5. Fire-fighting measures

### Extinguishing media

**Suitable extinguishing media** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

**Unsuitable extinguishing media** : Do not use water jet.

**Specific hazards arising from the chemical** : Flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

**Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
 carbon dioxide  
 carbon monoxide

## 5. Fire-fighting measures

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

### Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## 7. Handling and storage

### Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not swallow. Avoid breathing vapor or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.



## 7. Handling and storage

- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

| Ingredient name                         | Exposure limits |
|---|-----------------|
| Naphtha (petroleum), hydrotreated heavy | -               |
| Stoddard solvent                        | -               |
| 1,2,4-trimethylbenzene                  | -               |
| naphthalene                             | -               |

- Appropriate engineering controls** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles. Recommended: safety glasses with side-shields (EN 166)
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. > 8 hours (breakthrough time): Solvent. Chemical-resistant gloves. (EN 374) thickness (minimum) (0.4 mm)



## 8. Exposure controls/personal protection

- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Recommended: Wear work clothing with long sleeves.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: Wear protective shoes. (EN ISO 20345)
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended: If operating conditions cause high gas concentrations to be produced or any recommended or statutory exposure limit is exceeded, use an air fed respirator or self-contained breathing apparatus.
- Personal protective equipment (Pictograms)** :



## 9. Physical and chemical properties

- Physical state** : Liquid.
- Flash point** : Closed cup: 55°C (131°F) [Pensky-Martens.]
- Auto-ignition temperature** : Not available.
- Flammable limits** : Not available.
- Color** : Yellow. [Light]
- Odor** : Solvents
- pH** : Not available.
- Boiling/condensation point** : 163°C (325.4°F)
- Melting/freezing point** : Not available.
- Specific gravity** : 0.8578
- Vapor pressure** : Not available.
- Vapor density** : Not available.
- Odor threshold** : Not available.
- Evaporation rate** : Not available.
- Viscosity** : Kinematic (40°C (104°F)): 0.047 cm<sup>2</sup>/s (4.7 cSt)
- Solubility** : Insoluble in the following materials: cold water and hot water.
- Aerosol product**

## 10. Stability and reactivity

- Reactivity** : No specific test data related to reactivity available for this product or its ingredients.
- Chemical stability** : The product is stable.
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- Conditions to avoid** : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

## 10. Stability and reactivity

**Incompatible materials** : Reactive or incompatible with the following materials:  
oxidizing materials

**Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

| Product/ingredient name                 | Result                | Species | Dose                    | Exposure |
|---|-----------------------|---------|-------------------------|----------|
| Naphtha (petroleum), hydrotreated heavy | LC50 Inhalation Vapor | Rat     | 8500 mg/m <sup>3</sup>  | 4 hours  |
| 1,2,4-trimethylbenzene                  | LD50 Oral             | Rat     | >6 g/kg                 | -        |
|   | LC50 Inhalation Vapor | Rat     | 18000 mg/m <sup>3</sup> | 4 hours  |
| naphthalene                             | LD50 Oral             | Rat     | 5 g/kg                  | -        |
|   | LD50 Dermal           | Rabbit  | >20 g/kg                | -        |
|   | LD50 Oral             | Rat     | 490 mg/kg               | -        |

#### Irritation/Corrosion

| Product/ingredient name | Result                   | Species | Score | Exposure                  | Observation |
|-------------------------|--------------------------|---------|-------|---------------------------|-------------|
| Stoddard solvent        | Eyes - Mild irritant     | Human   | -     | 100 parts per million     | -           |
|                         | Eyes - Moderate irritant | Rabbit  | -     | 24 hours 500 milligrams   | -           |
| naphthalene             | Skin - Mild irritant     | Rabbit  | -     | 495 milligrams            | -           |
|                         | Skin - Severe irritant   | Rabbit  | -     | 24 hours 0.05 Milliliters | -           |

#### Sensitization

Not available.

#### Mutagenicity

Not available.

#### Carcinogenicity

Not available.

#### Classification

| Product/ingredient name | OSHA | IARC | NTP  |
|-------------------------|------|------|--|
| naphthalene             | -    | 2B   | Reasonably anticipated to be a human carcinogen. |

#### Reproductive toxicity

Not available.

#### Teratogenicity

Not available.

#### Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

Not available.

#### Aspiration hazard

## Section 11. Toxicological information

| Name                                    | Result                         |
|---|--------------------------------|
| Naphtha (petroleum), hydrotreated heavy | ASPIRATION HAZARD - Category 1 |

**Information on the likely routes of exposure** : Not available.

### Potential acute health effects

- Eye contact** : Causes serious eye irritation.  
**Inhalation** : Harmful if inhaled.  
**Skin contact** : No known significant effects or critical hazards.  
**Ingestion** : May be fatal if swallowed and enters airways.

### Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : Adverse symptoms may include the following:  
 pain or irritation  
 watering  
 redness
- Inhalation** : No specific data.  
**Skin contact** : No specific data.  
**Ingestion** : Adverse symptoms may include the following:  
 nausea or vomiting

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

- Potential immediate effects** : Not available.  
**Potential delayed effects** : Not available.

#### Long term exposure

- Potential immediate effects** : Not available.  
**Potential delayed effects** : Not available.

#### Potential chronic health effects

Not available.

- General** : No known significant effects or critical hazards.  
**Carcinogenicity** : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.  
**Mutagenicity** : No known significant effects or critical hazards.  
**Teratogenicity** : No known significant effects or critical hazards.  
**Developmental effects** : No known significant effects or critical hazards.  
**Fertility effects** : No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

| Route               | ATE value     |
|---------------------|---------------|
| Oral                | 64841.7 mg/kg |
| Inhalation (vapors) | 10.31 mg/l    |

## 12. Ecological information

### Toxicity

| Product/ingredient name | Result                            | Species                                      | Exposure |
|-------------------------|-----------------------------------|--|----------|
| 1,2,4-trimethylbenzene  | Acute LC50 4910 µg/l Marine water | Crustaceans - Elasmopus pecteniscrus - Adult | 48 hours |
| naphthalene             | Acute LC50 7720 µg/l Fresh water  | Fish - Pimephales promelas                   | 96 hours |
|                         | Acute EC50 1600 µg/l Fresh water  | Daphnia - Daphnia magna - Neonate            | 48 hours |
|                         | Acute LC50 2350 µg/l Marine water | Crustaceans - Palaemonetes pugio             | 48 hours |
|                         | Acute LC50 213 µg/l Fresh water   | Fish - Melanotaenia fluviatilis - Larvae     | 96 hours |

### Persistence and degradability

Not available.

### Bioaccumulative potential

| Product/ingredient name                                  | LogP <sub>ow</sub> | BCF         | Potential |
|--|--------------------|-------------|-----------|
| Naphtha (petroleum), hydrotreated heavy Stoddard solvent | -                  | 10 to 2500  | high      |
| 1,2,4-trimethylbenzene                                   | 3.16 to 7.06       | -           | high      |
| naphthalene  | 3.63               | 243         | low       |
|  | 3.4                | 36.5 to 168 | low       |

### Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Other adverse effects** : No known significant effects or critical hazards.




## 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

## 14. Transport information

|                            | DOT Classification  | IMDG   | IATA   |
|----------------------------|---|--|--|
| UN number                  | UN1993  | UN1993   | UN1993   |
| UN proper shipping name    | FLAMMABLE LIQUIDS, N.O.S. (Naphtha (petroleum), hydrotreated heavy, Stoddard solvent). Marine pollutant (Stoddard solvent)  | FLAMMABLE LIQUIDS, N.O.S. (Naphtha (petroleum), hydrotreated heavy, Stoddard solvent)  | FLAMMABLE LIQUIDS, N.O.S. (Naphtha (petroleum), hydrotreated heavy, Stoddard solvent)  |
| Transport hazard class(es) | 3<br>  | 3<br> | 3<br>   |
| Packing group              | III   | III  | III  |
| Environmental hazards      | Yes. The environmentally hazardous substance mark is not required.  | Yes.   | Yes. The environmentally hazardous substance mark is not required.   |
| Additional information     | This product may be re-classified as "Combustible Liquid," unless transported by vessel or aircraft. Non-bulk packages (less than or equal to 119 gal) of combustible liquids, that are marine pollutants, are not regulated as hazardous materials in package sizes less than the product reportable quantity, unless transported by vessel. This product is not regulated as a marine pollutant when transported on inland waterways in sizes of ≤5 L or ≤5 kg or by road, rail, or inland air in non-bulk sizes, provided the packagings meet the general provisions of §§ 173.24 and 173.24a. | <b>Emergency schedules</b> F-E, S-E  | The environmentally hazardous substance mark may appear if required by other transportation regulations.<br><b>Quantity limitation</b><br>Passenger and Cargo Aircraft: 60 L. Cargo Aircraft Only: 220 L. Limited Quantities - Passenger Aircraft: 10 L. |

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Transport in bulk according to Annex II of MARPOL and the IBC Code** : Not available.

## 15. Regulatory information

- U.S. Federal regulations** : TSCA 8(a) PAIR: naphthalene  
 TSCA 8(a) CDR Exempt/Partial exemption: Not determined  
 United States inventory (TSCA 8b): Not determined.  
 Clean Water Act (CWA) 307: ethylbenzene; naphthalene; toluene; benzene;  
 2-methylnaphthalene; 1-methylnaphthalene  
 Clean Water Act (CWA) 311: ethylbenzene; xylene; naphthalene; toluene; benzene

**Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)** : Listed

### SARA 302/304

#### Composition/information on ingredients

No products were found.

**SARA 304 RQ** : Not applicable.

### SARA 311/312

**Classification** : Fire hazard  
 Immediate (acute) health hazard  
 Delayed (chronic) health hazard

#### Composition/information on ingredients

| Name  | Fire hazard | Sudden release of pressure | Reactive | Immediate (acute) health hazard | Delayed (chronic) health hazard |
|---|-------------|----------------------------|----------|---------------------------------|---------------------------------|
| Distillates (petroleum), hydrotreated light | Yes.        | No.                        | No.      | No.                             | Yes.                            |
| Stoddard solvent                            | Yes.        | No.                        | No.      | Yes.                            | Yes.                            |
| Solvent naphtha (petroleum), heavy arom.    | No.         | No.                        | No.      | No.                             | Yes.                            |
| 1,2,4-trimethylbenzene                      | Yes.        | No.                        | No.      | No.                             | Yes.                            |
| naphthalene                                 | No.         | No.                        | No.      | Yes.                            | Yes.                            |

### State regulations

- Massachusetts** : The following components are listed: PSEUDOCUMENE; STODDARD SOLVENT  
**New York** : The following components are listed: Naphthalene  
**New Jersey** : The following components are listed: PSEUDOCUMENE; 1,2,4-TRIMETHYL BENZENE  
 STODDARD SOLVENT; NAPHTHALENE; MOTH FLAKES  
**Pennsylvania** : The following components are listed: PSEUDOCUMENE; STODDARD SOLVENT;  
 NAPHTHALENE

### California Prop. 65

**WARNING:** This product can expose you to Benzene, which is known to the State of California to cause cancer and birth defects or other reproductive harm. This product can expose you to chemicals including Ethylbenzene, Cumene, Naphthalene, which are known to the State of California to cause cancer, and Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

| Ingredient name | Cancer | Reproductive | No significant risk level | Maximum acceptable dosage level |
|-----------------|--------|--------------|---------------------------|---------------------------------|
| ethylbenzene    | Yes.   | No.          | Yes.                      |                                 |
| cumene          | Yes.   | No.          |                           |                                 |
| naphthalene     | Yes.   | No.          | Yes.                      |                                 |
| toluene         | No.    | Yes.         |                           | Yes.                            |
| benzene         | Yes.   | Yes.         | Yes.                      | Yes.                            |

## 15. Regulatory information

**United States inventory (TSCA 8b)** : Not determined.

### Canada

**WHMIS (Canada)** : Class B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).  
Class D-2A: Material causing other toxic effects (Very toxic).  
Class D-2B: Material causing other toxic effects (Toxic).

### Canadian lists

**Canadian NPRI** : The following components are listed: Hydrotreated light distillate; Hydrotreated heavy naphtha; 1,2,4-Trimethylbenzene; Stoddard solvent; Heavy aromatic solvent naphtha

**CEPA Toxic substances** : The following components are listed: Naphthalene

**Canada inventory** : Not determined.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol (Annexes A, B, C, E)

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### UNECE Aarhus Protocol on POPs and Heavy Metals

| Ingredient name | List name      | Status |
|-----------------|----------------|--------|
| PAHs            | POPs - Annex 3 | Listed |
| PAHs            | POPs - Annex 3 | Listed |

### International lists

#### National inventory

**Australia** : Not determined.

**Canada** : Not determined.

**China** : Not determined.

**Europe** : Not determined.

**Japan** : **Japan inventory (ENCS)**: Not determined.  
**Japan inventory (ISHL)**: Not determined.

**Malaysia** : Not determined.

**New Zealand** : Not determined.

**Philippines** : Not determined.

**Republic of Korea** : Not determined.

**Taiwan** : Not determined.

## 16. Other information

### Hazardous Material Information System (U.S.A.)

|                  |   |   |
|------------------|---|---|
| Health           | * | 2 |
| Flammability     |   | 2 |
| Physical hazards |   | 0 |
|                  |   |   |

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on MSDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

### National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

### History

|                                |             |
|--------------------------------|-------------|
| Date of printing               | : 2/21/2018 |
| Date of issue/Date of revision | : 2/21/2018 |
| Date of previous issue         | : 2/21/2018 |
| Version                        | : 3.1       |

|                             |   |
|-----------------------------|---|
| <b>Key to abbreviations</b> | : ATE = Acute Toxicity Estimate   |
|                             | : BCF = Bioconcentration Factor   |
|                             | : GHS = Globally Harmonized System of Classification and Labelling of Chemicals   |
|                             | : IATA = International Air Transport Association  |
|                             | : IBC = Intermediate Bulk Container   |
|                             | : IMDG = International Maritime Dangerous Goods   |
|                             | : LogPow = logarithm of the octanol/water partition coefficient   |
|                             | : MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) |
|                             | : UN = United Nations   |

**References** : Not available.

☑ Indicates information that has changed from previously issued version.

### Notice to reader



## 16. Other information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

# SAFETY DATA SHEET

BG 44K®



## 1. Product and company identification

**Manufacturer** : BG Products Inc.  
701 S. Wichita Street  
Wichita, KS, 67213, USA  
www.bgprod.com

### Relevant identified uses of the substance or mixture and uses advised against

#### Identified uses

Fuel additives

**MSDS #** : 208  
**Validation date** : 2/21/2018  
**Responsible name** : Kolin Anglin, Regulatory Compliance Coordinator  
316-265-2686  
msds@bgprod.com  
**In case of emergency** : (800) 424-9300 (CHEMTREC)

## 2. Hazards identification

**OSHA/HCS status** : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Classification of the substance or mixture** : FLAMMABLE LIQUIDS - Category 3  
ACUTE TOXICITY (inhalation) - Category 4  
EYE IRRITATION - Category 2A  
CARCINOGENICITY - Category 2  
ASPIRATION HAZARD - Category 1  
Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 78.1%

### GHS label elements

#### Hazard pictograms



**Signal word** : Danger

**Hazard statements** : Flammable liquid and vapor.  
Harmful if inhaled.  
Causes serious eye irritation.  
Suspected of causing cancer.  
May be fatal if swallowed and enters airways.

### Precautionary statements

#### Prevention

: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves: > 8 hours (breakthrough time): Solvent. Chemical-resistant gloves. (EN 374) thickness (minimum) (0.4 mm). Wear eye or face protection: Recommended: safety glasses with side-shields (EN 166). Wear protective clothing: Recommended: Wear work clothing with long sleeves.. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Wash hands thoroughly after handling.

**Date of issue/Date of revision**

: 2/21/2018

**Date of previous issue**

: 2/21/2018

**Version** : 3.1

1/

## 2. Hazards identification

- Response** : IF exposed or concerned: Get medical attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
- Storage** : Store locked up. Store in a well-ventilated place. Keep cool.
- Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.
- Hazards not otherwise classified** : None known.

## 3. Composition/information on ingredients

- Substance/mixture** : Mixture
- Other means of identification** : Not available.
- CAS number/other identifiers**
- CAS number** : Not applicable.
- Product code** : 208

| Name                                    | CAS number | %         |
|---|------------|-----------|
| Naphtha (petroleum), hydrotreated heavy | 64742-48-9 | 15 - 40   |
| Stoddard solvent                        | 8052-41-3  | 10 - 30   |
| 1,2,4-trimethylbenzene                  | 95-63-6    | 1 - 5     |
| naphthalene                             | 91-20-3    | 0.5 - 1.5 |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

## 4. First aid measures

### Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

## 4. First aid measures

**Ingestion** : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

**Eye contact** : Causes serious eye irritation.  
**Inhalation** : Harmful if inhaled.  
**Skin contact** : No known significant effects or critical hazards.  
**Ingestion** : May be fatal if swallowed and enters airways.

#### Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:  
 pain or irritation  
 watering  
 redness

**Inhalation** : No specific data.  
**Skin contact** : No specific data.  
**Ingestion** : Adverse symptoms may include the following:  
 nausea or vomiting

### Indication of immediate medical attention and special treatment needed, if necessary

**Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.  
**Specific treatments** : No specific treatment.  
**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

## 5. Fire-fighting measures

### Extinguishing media

**Suitable extinguishing media** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.  
**Unsuitable extinguishing media** : Do not use water jet.

**Specific hazards arising from the chemical** : Flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

**Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
 carbon dioxide  
 carbon monoxide

## 5. Fire-fighting measures

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

### Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## 7. Handling and storage

### Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not swallow. Avoid breathing vapor or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

## 7. Handling and storage

- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

| Ingredient name                         | Exposure limits |
|---|-----------------|
| Naphtha (petroleum), hydrotreated heavy | -               |
| Stoddard solvent                        | -               |
| 1,2,4-trimethylbenzene                  | -               |
| naphthalene                             | -               |

- Appropriate engineering controls** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles. Recommended: safety glasses with side-shields (EN 166)

### Skin protection

- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. > 8 hours (breakthrough time): Solvent. Chemical-resistant gloves. (EN 374) thickness (minimum) (0.4 mm)

## 8. Exposure controls/personal protection

- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Recommended: Wear work clothing with long sleeves.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: Wear protective shoes. (EN ISO 20345)
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended: If operating conditions cause high gas concentrations to be produced or any recommended or statutory exposure limit is exceeded, use an air fed respirator or self-contained breathing apparatus.
- Personal protective equipment (Pictograms)** :



## 9. Physical and chemical properties

- Physical state** : Liquid.
- Flash point** : Closed cup: 55°C (131°F) [Pensky-Martens.]
- Auto-ignition temperature** : Not available.
- Flammable limits** : Not available.
- Color** : Yellow. [Light]
- Odor** : Solvents
- pH** : Not available.
- Boiling/condensation point** : 163°C (325.4°F)
- Melting/freezing point** : Not available.
- Specific gravity** : 0.8578
- Vapor pressure** : Not available.
- Vapor density** : Not available.
- Odor threshold** : Not available.
- Evaporation rate** : Not available.
- Viscosity** : Kinematic (40°C (104°F)): 0.047 cm<sup>2</sup>/s (4.7 cSt)
- Solubility** : Insoluble in the following materials: cold water and hot water.
- Aerosol product**

## 10. Stability and reactivity

- Reactivity** : No specific test data related to reactivity available for this product or its ingredients.
- Chemical stability** : The product is stable.
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- Conditions to avoid** : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.



## 10. Stability and reactivity

**Incompatible materials** : Reactive or incompatible with the following materials:  
oxidizing materials

**Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

| Product/ingredient name                 | Result                | Species | Dose                    | Exposure |
|---|-----------------------|---------|-------------------------|----------|
| Naphtha (petroleum), hydrotreated heavy | LC50 Inhalation Vapor | Rat     | 8500 mg/m <sup>3</sup>  | 4 hours  |
| 1,2,4-trimethylbenzene                  | LD50 Oral             | Rat     | >6 g/kg                 | -        |
|   | LC50 Inhalation Vapor | Rat     | 18000 mg/m <sup>3</sup> | 4 hours  |
| naphthalene                             | LD50 Oral             | Rat     | 5 g/kg                  | -        |
|   | LD50 Dermal           | Rabbit  | >20 g/kg                | -        |
|   | LD50 Oral             | Rat     | 490 mg/kg               | -        |

#### Irritation/Corrosion

| Product/ingredient name | Result                   | Species | Score | Exposure                  | Observation |
|-------------------------|--------------------------|---------|-------|---------------------------|-------------|
| Stoddard solvent        | Eyes - Mild irritant     | Human   | -     | 100 parts per million     | -           |
|                         | Eyes - Moderate irritant | Rabbit  | -     | 24 hours 500 milligrams   | -           |
| naphthalene             | Skin - Mild irritant     | Rabbit  | -     | 495 milligrams            | -           |
|                         | Skin - Severe irritant   | Rabbit  | -     | 24 hours 0.05 Milliliters | -           |

#### Sensitization

Not available.

#### Mutagenicity

Not available.

#### Carcinogenicity

Not available.

#### Classification

| Product/ingredient name | OSHA | IARC | NTP  |
|-------------------------|------|------|--|
| naphthalene             | -    | 2B   | Reasonably anticipated to be a human carcinogen. |

#### Reproductive toxicity

Not available.

#### Teratogenicity

Not available.

#### Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

Not available.

#### Aspiration hazard



## Section 11. Toxicological information

| Name                                    | Result                         |
|---|--------------------------------|
| Naphtha (petroleum), hydrotreated heavy | ASPIRATION HAZARD - Category 1 |

**Information on the likely routes of exposure** : Not available.

**Potential acute health effects**

- Eye contact** : Causes serious eye irritation.
- Inhalation** : Harmful if inhaled.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : May be fatal if swallowed and enters airways.

**Symptoms related to the physical, chemical and toxicological characteristics**

- Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness
- Inhalation** : No specific data.
- Skin contact** : No specific data.
- Ingestion** : Adverse symptoms may include the following:  
nausea or vomiting

**Delayed and immediate effects and also chronic effects from short and long term exposure**

**Short term exposure**

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

**Long term exposure**

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

**Potential chronic health effects**

Not available.

- General** : No known significant effects or critical hazards.
- Carcinogenicity** : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
- Mutagenicity** : No known significant effects or critical hazards.
- Teratogenicity** : No known significant effects or critical hazards.
- Developmental effects** : No known significant effects or critical hazards.
- Fertility effects** : No known significant effects or critical hazards.

**Numerical measures of toxicity**

**Acute toxicity estimates**

| Route               | ATE value     |
|---------------------|---------------|
| Oral                | 64841.7 mg/kg |
| Inhalation (vapors) | 10.31 mg/l    |

## 12. Ecological information

### Toxicity

| Product/ingredient name | Result                            | Species                                      | Exposure |
|-------------------------|-----------------------------------|--|----------|
| 1,2,4-trimethylbenzene  | Acute LC50 4910 µg/l Marine water | Crustaceans - Elasmopus pecteniscrus - Adult | 48 hours |
| naphthalene             | Acute LC50 7720 µg/l Fresh water  | Fish - Pimephales promelas                   | 96 hours |
|                         | Acute EC50 1600 µg/l Fresh water  | Daphnia - Daphnia magna - Neonate            | 48 hours |
|                         | Acute LC50 2350 µg/l Marine water | Crustaceans - Palaemonetes pugio             | 48 hours |
|                         | Acute LC50 213 µg/l Fresh water   | Fish - Melanotaenia fluviatilis - Larvae     | 96 hours |

### Persistence and degradability

Not available.

### Bioaccumulative potential

| Product/ingredient name                                  | LogP <sub>ow</sub> | BCF         | Potential |
|--|--------------------|-------------|-----------|
| Naphtha (petroleum), hydrotreated heavy Stoddard solvent | -                  | 10 to 2500  | high      |
| 1,2,4-trimethylbenzene                                   | 3.16 to 7.06       | -           | high      |
| naphthalene  | 3.63               | 243         | low       |
|  | 3.4                | 36.5 to 168 | low       |

### Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Other adverse effects** : No known significant effects or critical hazards.




## 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

## 14. Transport information

|                            | DOT Classification  | IMDG   | IATA   |
|----------------------------|---|--|--|
| UN number                  | UN1993  | UN1993   | UN1993   |
| UN proper shipping name    | FLAMMABLE LIQUIDS, N.O.S. (Naphtha (petroleum), hydrotreated heavy, Stoddard solvent). Marine pollutant (Stoddard solvent)  | FLAMMABLE LIQUIDS, N.O.S. (Naphtha (petroleum), hydrotreated heavy, Stoddard solvent)  | FLAMMABLE LIQUIDS, N.O.S. (Naphtha (petroleum), hydrotreated heavy, Stoddard solvent)  |
| Transport hazard class(es) | 3<br>  | 3<br> | 3<br>   |
| Packing group              | III   | III  | III  |
| Environmental hazards      | Yes. The environmentally hazardous substance mark is not required.  | Yes.   | Yes. The environmentally hazardous substance mark is not required.   |
| Additional information     | This product may be re-classified as "Combustible Liquid," unless transported by vessel or aircraft. Non-bulk packages (less than or equal to 119 gal) of combustible liquids, that are marine pollutants, are not regulated as hazardous materials in package sizes less than the product reportable quantity, unless transported by vessel. This product is not regulated as a marine pollutant when transported on inland waterways in sizes of ≤5 L or ≤5 kg or by road, rail, or inland air in non-bulk sizes, provided the packagings meet the general provisions of §§ 173.24 and 173.24a. | <b>Emergency schedules</b> F-E, S-E  | The environmentally hazardous substance mark may appear if required by other transportation regulations.<br><b>Quantity limitation</b><br>Passenger and Cargo Aircraft: 60 L. Cargo Aircraft Only: 220 L. Limited Quantities - Passenger Aircraft: 10 L. |

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Transport in bulk according to Annex II of MARPOL and the IBC Code** : Not available.

## 15. Regulatory information

- U.S. Federal regulations** : TSCA 8(a) PAIR: naphthalene  
 TSCA 8(a) CDR Exempt/Partial exemption: Not determined  
 United States inventory (TSCA 8b): Not determined.  
 Clean Water Act (CWA) 307: ethylbenzene; naphthalene; toluene; benzene;  
 2-methylnaphthalene; 1-methylnaphthalene  
 Clean Water Act (CWA) 311: ethylbenzene; xylene; naphthalene; toluene; benzene
- Clean Air Act Section 112 : Listed  
 (b) Hazardous Air  
 Pollutants (HAPs)

### SARA 302/304

#### Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

### SARA 311/312

Classification : Fire hazard  
 Immediate (acute) health hazard  
 Delayed (chronic) health hazard

#### Composition/information on ingredients

| Name  | Fire hazard | Sudden release of pressure | Reactive | Immediate (acute) health hazard | Delayed (chronic) health hazard |
|---|-------------|----------------------------|----------|---------------------------------|---------------------------------|
| Distillates (petroleum), hydrotreated light | Yes.        | No.                        | No.      | No.                             | Yes.                            |
| Stoddard solvent                            | Yes.        | No.                        | No.      | Yes.                            | Yes.                            |
| Solvent naphtha (petroleum), heavy arom.    | No.         | No.                        | No.      | No.                             | Yes.                            |
| 1,2,4-trimethylbenzene                      | Yes.        | No.                        | No.      | No.                             | Yes.                            |
| naphthalene                                 | No.         | No.                        | No.      | Yes.                            | Yes.                            |

### State regulations

- Massachusetts** : The following components are listed: PSEUDOCUMENE; STODDARD SOLVENT
- New York** : The following components are listed: Naphthalene
- New Jersey** : The following components are listed: PSEUDOCUMENE; 1,2,4-TRIMETHYL BENZENE  
 STODDARD SOLVENT; NAPHTHALENE; MOTH FLAKES
- Pennsylvania** : The following components are listed: PSEUDOCUMENE; STODDARD SOLVENT;  
 NAPHTHALENE

### California Prop. 65

**WARNING:** This product can expose you to Benzene, which is known to the State of California to cause cancer and birth defects or other reproductive harm. This product can expose you to chemicals including Ethylbenzene, Cumene, Naphthalene, which are known to the State of California to cause cancer, and Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

| Ingredient name | Cancer | Reproductive | No significant risk level | Maximum acceptable dosage level |
|-----------------|--------|--------------|---------------------------|---------------------------------|
| ethylbenzene    | Yes.   | No.          | Yes.                      |                                 |
| cumene          | Yes.   | No.          |                           |                                 |
| naphthalene     | Yes.   | No.          | Yes.                      |                                 |
| toluene         | No.    | Yes.         |                           | Yes.                            |
| benzene         | Yes.   | Yes.         | Yes.                      | Yes.                            |

Date of issue/Date of revision : 2/21/2018 Date of previous issue : 2/21/2018 Version : 3.1 11/

## 15. Regulatory information

**United States inventory (TSCA 8b)** : Not determined.

### Canada

**WHMIS (Canada)** : Class B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).  
Class D-2A: Material causing other toxic effects (Very toxic).  
Class D-2B: Material causing other toxic effects (Toxic).

### Canadian lists

**Canadian NPRI** : The following components are listed: Hydrotreated light distillate; Hydrotreated heavy naphtha; 1,2,4-Trimethylbenzene; Stoddard solvent; Heavy aromatic solvent naphtha

**CEPA Toxic substances** : The following components are listed: Naphthalene

**Canada inventory** : Not determined.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol (Annexes A, B, C, E)

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### UNECE Aarhus Protocol on POPs and Heavy Metals

| Ingredient name | List name      | Status |
|-----------------|----------------|--------|
| PAHs            | POPs - Annex 3 | Listed |
| PAHs            | POPs - Annex 3 | Listed |

### International lists

#### National inventory

**Australia** : Not determined.

**Canada** : Not determined.

**China** : Not determined.

**Europe** : Not determined.

**Japan** : **Japan inventory (ENCS)**: Not determined.  
**Japan inventory (ISHL)**: Not determined.

**Malaysia** : Not determined.

**New Zealand** : Not determined.

**Philippines** : Not determined.

**Republic of Korea** : Not determined.

**Taiwan** : Not determined.

## 16. Other information

### Hazardous Material Information System (U.S.A.)

|                  |   |   |
|------------------|---|---|
| Health           | * | 2 |
| Flammability     |   | 2 |
| Physical hazards |   | 0 |
|                  |   |   |

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on MSDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

### National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

### History

|                                |   |           |
|--------------------------------|---|-----------|
| Date of printing               | : | 2/21/2018 |
| Date of issue/Date of revision | : | 2/21/2018 |
| Date of previous issue         | : | 2/21/2018 |
| Version                        | : | 3.1       |

|                             |   |   |
|-----------------------------|---|---|
| <b>Key to abbreviations</b> | :   | ATE = Acute Toxicity Estimate   |
|                             |   | BCF = Bioconcentration Factor   |
|                             |   | GHS = Globally Harmonized System of Classification and Labelling of Chemicals |
|                             |   | IATA = International Air Transport Association                                |
|                             |   | IBC = Intermediate Bulk Container   |
|                             |   | IMDG = International Maritime Dangerous Goods                                 |
|                             |   | LogPow = logarithm of the octanol/water partition coefficient                 |
|                             | MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) |   |
|                             | UN = United Nations   |   |

**References** : Not available.

☑ Indicates information that has changed from previously issued version.

### Notice to reader

|                                       |             |                               |             |                |       |     |
|---------------------------------------|-------------|-------------------------------|-------------|----------------|-------|-----|
| <i>Date of issue/Date of revision</i> | : 2/21/2018 | <i>Date of previous issue</i> | : 2/21/2018 | <i>Version</i> | : 3.1 | 13/ |
|---------------------------------------|-------------|-------------------------------|-------------|----------------|-------|-----|

## 16. Other information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

# SAFETY DATA SHEET

BG ATC PLUS®



## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

**Product name** : BG ATC PLUS®  
**UFI** : S110-D0Y8-H00S-0YW  
**Product code** : 310  
**Product description** : Not available.  
**Product type** : Liquid.  
**Other means of identification** : 310E, 310B, 310WOR, 310CCWOR, 31032, 3106, 3106E, 3106CC, P310

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

| Identified uses   |
|-------------------|
| Use in lubricants |

### 1.3 Details of the supplier of the safety data sheet

BG Products Inc.  
740 S. Wichita Street  
Wichita, KS, 67213, USA  
www.bgprod.com  
316-266-8120  
msds@bgprod.com

**e-mail address of person responsible for this SDS** : msds@bgprod.com

#### National contact

HH Compliance Ltd.  
Rubicon Centre, CIT Campus, Bishopstown, Cork  
Ireland  
353-21-4868120  
info@h2compliance.com

### 1.4 Emergency telephone number

#### National advisory body/Poison Center

00 +1 703-527-3887 (CHEMTREC INTL)

#### Supplier

**Telephone number** : 00 +1 703-527-3887 (CHEMTREC INTL)  
24-hour telephone and/or website

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Not classified.

The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

**Signal word** : No signal word.



BG ATC PLUS®

## SECTION 2: Hazards identification

**Hazard statements** : No known significant effects or critical hazards.

### Precautionary statements

**Prevention** : Not applicable.

**Response** : Not applicable.

**Storage** : Not applicable.

**Disposal** : Not applicable.

**Supplemental label elements** : Safety data sheet available on request.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Not applicable.

### Special packaging requirements

**Containers to be fitted with child-resistant fastenings** : Not applicable.

**Tactile warning of danger** : Not applicable.

### 2.3 Other hazards

**Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII** : This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**Other hazards which do not result in classification** : None known.

## SECTION 3: Composition/information on ingredients

**3.2 Mixtures** : Mixture

| Product/ingredient name                                | Identifiers  | %         | Regulation (EC) No. 1272/2008 [CLP]   | Type |
|--|--|-----------|---|------|
| White mineral oil (petroleum)                          | EC: 232-455-8<br>CAS: 8042-47-5                                  | ≥75 - ≤90 | Not classified.   | [6]  |
| Distillates (petroleum), hydrotreated heavy paraffinic | REACH #:<br>01-2119484627-25<br>EC: 265-157-1<br>CAS: 64742-54-7 | ≥10 - ≤25 | Asp. Tox. 1, H304   | [1]  |
|  |  |           | <b>See Section 16 for the full text of the H statements declared above.</b> |      |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

### Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

[6] Additional disclosure due to company policy

Occupational exposure limits, if available, are listed in Section 8.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- Ingestion** : Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

### 4.2 Most important symptoms and effects, both acute and delayed

#### Over-exposure signs/symptoms

- Eye contact** : No specific data.
- Inhalation** : No specific data.
- Skin contact** : No specific data.
- Ingestion** : No specific data.

### 4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : None known.

### 5.2 Special hazards arising from the substance or mixture

- Hazards from the substance or mixture** : In a fire or if heated, a pressure increase will occur and the container may burst.
- Hazardous combustion products** : No specific data.

### 5.3 Advice for firefighters

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

- 6.2 Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### 6.3 Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor.

- 6.4 Reference to other sections** : See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8).
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### 7.3 Specific end use(s)

- Recommendations** : Not available.
- Industrial sector specific solutions** : Not available.

## SECTION 8: Exposure controls/personal protection

The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 8.1 Control parameters

#### Occupational exposure limits

No exposure limit value known.

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### DNELs/DMELs

No DNELs/DMELs available.

#### PNECs

No PNECs available.

### 8.2 Exposure controls

**Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

#### Individual protection measures

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

#### Skin protection

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

**Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

|  |   |
|--|---|
| Physical state                               | : Liquid.   |
| Color  | : Dark. Brown.  |
| Odor   | : Petroleum oil   |
| Odor threshold                               | : Not available.  |
| pH   | : Not available.  |
| Melting point/freezing point                 | : Not available.  |
| Initial boiling point and boiling range      | : Not available.  |
| Flash point                                  | : Open cup: 150°C [Cleveland.]                                    |
| Evaporation rate                             | : Not available.  |
| Flammability (solid, gas)                    | : Not available.  |
| Upper/lower flammability or explosive limits | : Not available.  |
| Vapor pressure                               | : Not available.  |
| Vapor density                                | : Not available.  |
| Relative density                             | : 0.9183  |
| Solubility(ies)                              | : Insoluble in the following materials: cold water and hot water. |
| Partition coefficient: n-octanol/water       | : Not available.  |
| Auto-ignition temperature                    | : Not available.  |
| Decomposition temperature                    | : Not available.  |
| Viscosity                                    | : Kinematic (40°C): 1.132 cm <sup>2</sup> /s                      |
| Explosive properties                         | : Not available.  |
| Oxidizing properties                         | : Not available.  |

### 9.2 Other information

|                     |                  |
|---------------------|------------------|
| Solubility in water | : Not available. |
|---------------------|------------------|

## SECTION 10: Stability and reactivity

|   |  |
|---|--|
| 10.1 Reactivity                         | : No specific test data related to reactivity available for this product or its ingredients.           |
| 10.2 Chemical stability                 | : The product is stable.   |
| 10.3 Possibility of hazardous reactions | : Under normal conditions of storage and use, hazardous reactions will not occur.                      |
| 10.4 Conditions to avoid                | : No specific data.  |
| 10.5 Incompatible materials             | : No specific data.  |
| 10.6 Hazardous decomposition products   | : Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

| Product/ingredient name                                | Result                          | Species | Dose        | Exposure |
|--|---------------------------------|---------|-------------|----------|
| White mineral oil (petroleum)                          | LC50 Inhalation Dusts and mists | Rat     | 5 mg/l      | 4 hours  |
|  | LD50 Dermal                     | Rabbit  | 2000 mg/kg  | -        |
| Distillates (petroleum), hydrotreated heavy paraffinic | LD50 Oral                       | Rat     | >5000 mg/kg | -        |
|  | LC50 Inhalation Dusts and mists | Rat     | >5 mg/l     | 4 hours  |
|  | LD50 Dermal                     | Rabbit  | 5000 mg/kg  | -        |
|  | LD50 Oral                       | Rat     | 15000 mg/kg | -        |

**Conclusion/Summary** : Not available.

#### Acute toxicity estimates

Not available.

#### Irritation/Corrosion

**Conclusion/Summary** : Not available.

#### Sensitization

**Conclusion/Summary** : Not available.

#### Mutagenicity

**Conclusion/Summary** : Not available.

#### Carcinogenicity

**Conclusion/Summary** : Not available.

#### Reproductive toxicity

**Conclusion/Summary** : Not available.

#### Teratogenicity

**Conclusion/Summary** : Not available.

#### Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

Not available.

#### Aspiration hazard

| Product/ingredient name                                | Result                         |
|--|--------------------------------|
| Distillates (petroleum), hydrotreated heavy paraffinic | ASPIRATION HAZARD - Category 1 |

**Information on the likely routes of exposure** : Not available.

#### Potential acute health effects

**Eye contact** : No known significant effects or critical hazards.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact** : No known significant effects or critical hazards.

**Ingestion** : No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : No specific data.

**Inhalation** : No specific data.

**Skin contact** : No specific data.

**Ingestion** : No specific data.

#### Delayed and immediate effects and also chronic effects from short and long term exposure

## SECTION 11: Toxicological information

### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

### Potential chronic health effects

Not available.

**Conclusion/Summary** : Not available.

**General** : No known significant effects or critical hazards.

**Carcinogenicity** : No known significant effects or critical hazards.

**Mutagenicity** : No known significant effects or critical hazards.

**Teratogenicity** : No known significant effects or critical hazards.

**Developmental effects** : No known significant effects or critical hazards.

**Fertility effects** : No known significant effects or critical hazards.

**Other information** : Not available.

## SECTION 12: Ecological information

### 12.1 Toxicity

**Conclusion/Summary** : Not available.

### 12.2 Persistence and degradability

**Conclusion/Summary** : Not available.

### 12.3 Bioaccumulative potential

| Product/ingredient name       | LogP <sub>ow</sub> | BCF | Potential |
|-------------------------------|--------------------|-----|-----------|
| White mineral oil (petroleum) | >6                 | -   | high      |

### 12.4 Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Mobility** : Not available.

### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**12.6 Other adverse effects** : No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 13.1 Waste treatment methods

#### Product



BG ATC PLUS®

## SECTION 13: Disposal considerations

- Methods of disposal** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
- Hazardous waste** : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.
- Packaging**
- Methods of disposal** : The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
- Special precautions** : This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

|  | ADR/RID        | ADN            | IMDG           | IATA           |
|--|----------------|----------------|----------------|----------------|
| <b>14.1 UN number</b>                  | Not regulated. | Not regulated. | Not regulated. | Not regulated. |
| <b>14.2 UN proper shipping name</b>    | -              | -              | -              | -              |
| <b>14.3 Transport hazard class(es)</b> | -              | -              | -              | -              |
| <b>14.4 Packing group</b>              | -              | -              | -              | -              |
| <b>14.5 Environmental hazards</b>      | No.            | No.            | No.            | No.            |

**14.6 Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code** : Not available.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU Regulation (EC) No. 1907/2006 (REACH)

##### Annex XIV - List of substances subject to authorization

###### Annex XIV

None of the components are listed.

###### Substances of very high concern

None of the components are listed.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Not applicable.



## SECTION 15: Regulatory information

### Other EU regulations

**Industrial emissions (integrated pollution prevention and control) - Air** : Not listed

**Industrial emissions (integrated pollution prevention and control) - Water** : Not listed

### Ozone depleting substances (1005/2009/EU)

Not listed.

### Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

### Seveso Directive

This product is not controlled under the Seveso Directive.

### National regulations

### International regulations

### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

### Montreal Protocol

Not listed.

### Stockholm Convention on Persistent Organic Pollutants

Not listed.

### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

### Inventory list

**Australia** : All components are listed or exempted.  
**Canada** : All components are listed or exempted.  
**China** : All components are listed or exempted.  
**Europe** : All components are listed or exempted.  
**Japan** : **Japan inventory (ENCS)**: Not determined.  
**Japan inventory (ISHL)**: Not determined.  
**New Zealand** : All components are listed or exempted.  
**Philippines** : Not determined.  
**Republic of Korea** : Not determined.  
**Taiwan** : All components are listed or exempted.  
**Thailand** : Not determined.  
**Turkey** : All components are listed or exempted.  
**United States** : All components are listed or exempted.  
**Viet Nam** : All components are listed or exempted.

**15.2 Chemical Safety Assessment** : Not applicable.

BG ATC PLUS®

## SECTION 16: Other information

✔ Indicates information that has changed from previously issued version.

**Abbreviations and acronyms** :

- ATE = Acute Toxicity Estimate
- CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
- DMEL = Derived Minimal Effect Level
- DNEL = Derived No Effect Level
- EUH statement = CLP-specific Hazard statement
- PBT = Persistent, Bioaccumulative and Toxic
- PNEC = Predicted No Effect Concentration
- RRN = REACH Registration Number
- vPvB = Very Persistent and Very Bioaccumulative

### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

| Classification  | Justification |
|-----------------|---------------|
| Not classified. |               |

### Full text of abbreviated H statements

|      |   |
|------|---|
| H304 | May be fatal if swallowed and enters airways. |
|------|---|

### Full text of classifications [CLP/GHS]

|                   |                                |
|-------------------|--------------------------------|
| Asp. Tox. 1, H304 | ASPIRATION HAZARD - Category 1 |
|-------------------|--------------------------------|

**Date of printing** : 7/15/2020

**Date of issue/ Date of revision** : 7/15/2020

**Date of previous issue** : 7/15/2020

**Version** : 5.1

**Formulation Version number** : 9.0

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

## Annex to the extended Safety Data Sheet (eSDS)

Professional

### Identification of the substance or mixture

Product definition : Mixture  
Code : 310  
Product name : BG ATC PLUS®

### Section 1 - Title

Short title of the exposure scenario : Lubricant additives  
List of use descriptors : **Identified use name:** Use in lubricants  
**Process Category:** PROC28  
**Substance supplied to that use in form of:** As such  
**Sector of end use:** SU22  
**Subsequent service life relevant for that use:** No.  
**Environmental Release Category:** ERC09b  
**Market sector by type of chemical product:** PC24  
**Article category related to subsequent service life:** AC01  
Environmental contributing scenarios :  
Health Contributing scenarios :

### Section 2 - Exposure controls

Contributing scenario controlling environmental exposure for 1:

Contributing scenario controlling worker exposure for 2:  
Conditions and measures related to personal protection, hygiene and health evaluation

### Section 3 - Exposure estimation and reference to its source

Website: : Not applicable.

Exposure estimation and reference to its source - Environment: 1:

Exposure assessment (environment): : Not available.

Exposure estimation and reference to its source : Not available.

Exposure estimation and reference to its source - Workers: 2:

Exposure assessment (human): : Not available.

Exposure estimation and reference to its source : Not available.

### Section 4 - Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment : Not available.

Health : Not available.

### Additional good practice advice beyond the REACH CSA

Environment : Not available.

Health : Not available.

# SAFETY DATA SHEET

BG ATC PLUS®



## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

**Product name** : BG ATC PLUS®  
**UFI** : S110-D0Y8-H00S-0YWVH  
**Product code** : 310  
**Product description** : Not available.  
**Product type** : Liquid.  
**Other means of identification** : 310E, 310B, 310WOR, 310CCWOR, 31032, 3106, 3106E, 3106CC, P310

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

| Identified uses   |
|-------------------|
| Use in lubricants |

### 1.3 Details of the supplier of the safety data sheet

BG Products Inc.  
740 S. Wichita Street  
Wichita, KS, 67213, USA  
www.bgprod.com  
316-266-8120  
msds@bgprod.com

**e-mail address of person responsible for this SDS** : msds@bgprod.com

#### National contact

HH Compliance Ltd.  
Rubicon Centre, CIT Campus, Bishopstown, Cork  
Ireland  
353-21-4868120  
info@h2compliance.com

### 1.4 Emergency telephone number

#### National advisory body/Poison Center

00 +1 703-527-3887 (CHEMTREC INTL)

#### Supplier

**Telephone number** : 00 +1 703-527-3887 (CHEMTREC INTL)  
24-hour telephone and/or website

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Not classified.

The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

**Signal word** : No signal word.

BG ATC PLUS®

## SECTION 2: Hazards identification

**Hazard statements** : No known significant effects or critical hazards.

### Precautionary statements

**Prevention** : Not applicable.

**Response** : Not applicable.

**Storage** : Not applicable.

**Disposal** : Not applicable.

**Supplemental label elements** : Safety data sheet available on request.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Not applicable.

### Special packaging requirements

**Containers to be fitted with child-resistant fastenings** : Not applicable.

**Tactile warning of danger** : Not applicable.

### 2.3 Other hazards

**Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII** : This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**Other hazards which do not result in classification** : None known.

## SECTION 3: Composition/information on ingredients

**3.2 Mixtures** : Mixture

| Product/ingredient name                                | Identifiers  | %         | Regulation (EC) No. 1272/2008 [CLP]   | Type |
|--|--|-----------|---|------|
| White mineral oil (petroleum)                          | EC: 232-455-8<br>CAS: 8042-47-5                                  | ≥75 - ≤90 | Not classified.   | [6]  |
| Distillates (petroleum), hydrotreated heavy paraffinic | REACH #:<br>01-2119484627-25<br>EC: 265-157-1<br>CAS: 64742-54-7 | ≥10 - ≤25 | Asp. Tox. 1, H304   | [1]  |
|  |  |           | <b>See Section 16 for the full text of the H statements declared above.</b> |      |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

### Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

[6] Additional disclosure due to company policy

Occupational exposure limits, if available, are listed in Section 8.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- Ingestion** : Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

### 4.2 Most important symptoms and effects, both acute and delayed

#### Over-exposure signs/symptoms

- Eye contact** : No specific data.
- Inhalation** : No specific data.
- Skin contact** : No specific data.
- Ingestion** : No specific data.

### 4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : None known.

### 5.2 Special hazards arising from the substance or mixture

- Hazards from the substance or mixture** : In a fire or if heated, a pressure increase will occur and the container may burst.
- Hazardous combustion products** : No specific data.

### 5.3 Advice for firefighters

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

- 6.2 Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### 6.3 Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor.

- 6.4 Reference to other sections** : See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8).
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### 7.3 Specific end use(s)

- Recommendations** : Not available.
- Industrial sector specific solutions** : Not available.

## SECTION 8: Exposure controls/personal protection

The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 8.1 Control parameters

#### Occupational exposure limits

No exposure limit value known.

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### DNELs/DMELs

No DNELs/DMELs available.

#### PNECs

No PNECs available.

### 8.2 Exposure controls

**Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

#### Individual protection measures

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

#### Skin protection

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

**Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.



## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

|  |   |
|--|---|
| Physical state                               | : Liquid.   |
| Color  | : Dark. Brown.  |
| Odor   | : Petroleum oil   |
| Odor threshold                               | : Not available.  |
| pH   | : Not available.  |
| Melting point/freezing point                 | : Not available.  |
| Initial boiling point and boiling range      | : Not available.  |
| Flash point                                  | : Open cup: 150°C [Cleveland.]                                    |
| Evaporation rate                             | : Not available.  |
| Flammability (solid, gas)                    | : Not available.  |
| Upper/lower flammability or explosive limits | : Not available.  |
| Vapor pressure                               | : Not available.  |
| Vapor density                                | : Not available.  |
| Relative density                             | : 0.9183  |
| Solubility(ies)                              | : Insoluble in the following materials: cold water and hot water. |
| Partition coefficient: n-octanol/water       | : Not available.  |
| Auto-ignition temperature                    | : Not available.  |
| Decomposition temperature                    | : Not available.  |
| Viscosity                                    | : Kinematic (40°C): 1.132 cm <sup>2</sup> /s                      |
| Explosive properties                         | : Not available.  |
| Oxidizing properties                         | : Not available.  |

### 9.2 Other information

|                     |                  |
|---------------------|------------------|
| Solubility in water | : Not available. |
|---------------------|------------------|

## SECTION 10: Stability and reactivity

|   |  |
|---|--|
| 10.1 Reactivity                         | : No specific test data related to reactivity available for this product or its ingredients.           |
| 10.2 Chemical stability                 | : The product is stable.   |
| 10.3 Possibility of hazardous reactions | : Under normal conditions of storage and use, hazardous reactions will not occur.                      |
| 10.4 Conditions to avoid                | : No specific data.  |
| 10.5 Incompatible materials             | : No specific data.  |
| 10.6 Hazardous decomposition products   | : Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

| Product/ingredient name                                | Result                          | Species | Dose        | Exposure |
|--|---------------------------------|---------|-------------|----------|
| White mineral oil (petroleum)                          | LC50 Inhalation Dusts and mists | Rat     | 5 mg/l      | 4 hours  |
|  | LD50 Dermal                     | Rabbit  | 2000 mg/kg  | -        |
| Distillates (petroleum), hydrotreated heavy paraffinic | LD50 Oral                       | Rat     | >5000 mg/kg | -        |
|  | LC50 Inhalation Dusts and mists | Rat     | >5 mg/l     | 4 hours  |
|  | LD50 Dermal                     | Rabbit  | 5000 mg/kg  | -        |
|  | LD50 Oral                       | Rat     | 15000 mg/kg | -        |

**Conclusion/Summary** : Not available.

#### Acute toxicity estimates

Not available.

#### Irritation/Corrosion

**Conclusion/Summary** : Not available.

#### Sensitization

**Conclusion/Summary** : Not available.

#### Mutagenicity

**Conclusion/Summary** : Not available.

#### Carcinogenicity

**Conclusion/Summary** : Not available.

#### Reproductive toxicity

**Conclusion/Summary** : Not available.

#### Teratogenicity

**Conclusion/Summary** : Not available.

#### Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

Not available.

#### Aspiration hazard

| Product/ingredient name                                | Result                         |
|--|--------------------------------|
| Distillates (petroleum), hydrotreated heavy paraffinic | ASPIRATION HAZARD - Category 1 |

**Information on the likely routes of exposure** : Not available.

#### Potential acute health effects

**Eye contact** : No known significant effects or critical hazards.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact** : No known significant effects or critical hazards.

**Ingestion** : No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : No specific data.

**Inhalation** : No specific data.

**Skin contact** : No specific data.

**Ingestion** : No specific data.

#### Delayed and immediate effects and also chronic effects from short and long term exposure

BG ATC PLUS®

## SECTION 11: Toxicological information

### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

### Potential chronic health effects

Not available.

**Conclusion/Summary** : Not available.

**General** : No known significant effects or critical hazards.

**Carcinogenicity** : No known significant effects or critical hazards.

**Mutagenicity** : No known significant effects or critical hazards.

**Teratogenicity** : No known significant effects or critical hazards.

**Developmental effects** : No known significant effects or critical hazards.

**Fertility effects** : No known significant effects or critical hazards.

**Other information** : Not available.

## SECTION 12: Ecological information

### 12.1 Toxicity

**Conclusion/Summary** : Not available.

### 12.2 Persistence and degradability

**Conclusion/Summary** : Not available.

### 12.3 Bioaccumulative potential

| Product/ingredient name       | LogP <sub>ow</sub> | BCF | Potential |
|-------------------------------|--------------------|-----|-----------|
| White mineral oil (petroleum) | >6                 | -   | high      |

### 12.4 Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Mobility** : Not available.

### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**12.6 Other adverse effects** : No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 13.1 Waste treatment methods

#### Product

BG ATC PLUS®

## SECTION 13: Disposal considerations

**Methods of disposal** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

### Packaging

**Methods of disposal** : The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions** : This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

|  | ADR/RID        | ADN            | IMDG           | IATA           |
|--|----------------|----------------|----------------|----------------|
| <b>14.1 UN number</b>                  | Not regulated. | Not regulated. | Not regulated. | Not regulated. |
| <b>14.2 UN proper shipping name</b>    | -              | -              | -              | -              |
| <b>14.3 Transport hazard class(es)</b> | -              | -              | -              | -              |
| <b>14.4 Packing group</b>              | -              | -              | -              | -              |
| <b>14.5 Environmental hazards</b>      | No.            | No.            | No.            | No.            |

**14.6 Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code** : Not available.

## SECTION 15: Regulatory information

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
[EU Regulation \(EC\) No. 1907/2006 \(REACH\)](#)

[Annex XIV - List of substances subject to authorization](#)

[Annex XIV](#)

None of the components are listed.

[Substances of very high concern](#)

None of the components are listed.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Not applicable.

## SECTION 15: Regulatory information

### Other EU regulations

**Industrial emissions (integrated pollution prevention and control) - Air** : Not listed

**Industrial emissions (integrated pollution prevention and control) - Water** : Not listed

### Ozone depleting substances (1005/2009/EU)

Not listed.

### Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

### Seveso Directive

This product is not controlled under the Seveso Directive.

### National regulations

### International regulations

### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

### Montreal Protocol

Not listed.

### Stockholm Convention on Persistent Organic Pollutants

Not listed.

### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

### Inventory list

|                          |  |
|--------------------------|--|
| <b>Australia</b>         | : All components are listed or exempted.   |
| <b>Canada</b>            | : All components are listed or exempted.   |
| <b>China</b>             | : All components are listed or exempted.   |
| <b>Europe</b>            | : All components are listed or exempted.   |
| <b>Japan</b>             | : <b>Japan inventory (ENCS)</b> : Not determined.<br><b>Japan inventory (ISHL)</b> : Not determined. |
| <b>New Zealand</b>       | : All components are listed or exempted.   |
| <b>Philippines</b>       | : Not determined.  |
| <b>Republic of Korea</b> | : Not determined.  |
| <b>Taiwan</b>            | : All components are listed or exempted.   |
| <b>Thailand</b>          | : Not determined.  |
| <b>Turkey</b>            | : All components are listed or exempted.   |
| <b>United States</b>     | : All components are listed or exempted.   |
| <b>Viet Nam</b>          | : All components are listed or exempted.   |

**15.2 Chemical Safety Assessment** : Not applicable.

BG ATC PLUS®

## SECTION 16: Other information

✔ Indicates information that has changed from previously issued version.

**Abbreviations and acronyms** :

- ATE = Acute Toxicity Estimate
- CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
- DMEL = Derived Minimal Effect Level
- DNEL = Derived No Effect Level
- EUH statement = CLP-specific Hazard statement
- PBT = Persistent, Bioaccumulative and Toxic
- PNEC = Predicted No Effect Concentration
- RRN = REACH Registration Number
- vPvB = Very Persistent and Very Bioaccumulative

### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

| Classification  | Justification |
|-----------------|---------------|
| Not classified. |               |

### Full text of abbreviated H statements

|      |   |
|------|---|
| H304 | May be fatal if swallowed and enters airways. |
|------|---|

### Full text of classifications [CLP/GHS]

|                   |                                |
|-------------------|--------------------------------|
| Asp. Tox. 1, H304 | ASPIRATION HAZARD - Category 1 |
|-------------------|--------------------------------|

**Date of printing** : 7/15/2020

**Date of issue/ Date of revision** : 7/15/2020

**Date of previous issue** : 7/15/2020

**Version** : 5.1

**Formulation Version number** : 9.0

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

## Annex to the extended Safety Data Sheet (eSDS)

Professional

### Identification of the substance or mixture

Product definition : Mixture  
Code : 310  
Product name : BG ATC PLUS®

### Section 1 - Title

Short title of the exposure scenario : Lubricant additives  
List of use descriptors : **Identified use name:** Use in lubricants  
**Process Category:** PROC28  
**Substance supplied to that use in form of:** As such  
**Sector of end use:** SU22  
**Subsequent service life relevant for that use:** No.  
**Environmental Release Category:** ERC09b  
**Market sector by type of chemical product:** PC24  
**Article category related to subsequent service life:** AC01  
Environmental contributing scenarios :  
Health Contributing scenarios :

### Section 2 - Exposure controls

Contributing scenario controlling environmental exposure for 1:

Contributing scenario controlling worker exposure for 2:

Conditions and measures related to personal protection, hygiene and health evaluation

### Section 3 - Exposure estimation and reference to its source

Website: : Not applicable.

Exposure estimation and reference to its source - Environment: 1:

Exposure assessment (environment): : Not available.

Exposure estimation and reference to its source : Not available.

Exposure estimation and reference to its source - Workers: 2:

Exposure assessment (human): : Not available.

Exposure estimation and reference to its source : Not available.

### Section 4 - Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment : Not available.

Health : Not available.

### Additional good practice advice beyond the REACH CSA

Environment : Not available.

Health : Not available.

# SAFETY DATA SHEET

BG CF5®



## 1. Product and company identification

**Manufacturer** : BG Products Inc.  
701 S. Wichita Street  
Wichita, KS, 67213, USA  
www.bgprod.com

### Relevant identified uses of the substance or mixture and uses advised against

#### Identified uses

Fuel additives

**MSDS #** : 203  
**Validation date** : 4/20/2017  
**Responsible name** : Kolin Anglin, Environmental Coordinator  
316-265-2686  
msds@bgprod.com  
**In case of emergency** : (800) 424-9300 (CHEMTREC)

## 2. Hazards identification

**OSHA/HCS status** : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Classification of the substance or mixture** : FLAMMABLE LIQUIDS - Category 3  
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1  
ASPIRATION HAZARD - Category 1  
Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 49.2%  
Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 96.3%  
Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 49.2%

### GHS label elements

#### Hazard pictograms



**Signal word** : Danger

**Hazard statements** : Flammable liquid and vapor.  
May be fatal if swallowed and enters airways.  
Causes damage to organs through prolonged or repeated exposure.

### Precautionary statements

**Prevention** : Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

**Response** : Get medical attention if you feel unwell. IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

**Storage** : Store locked up. Store in a well-ventilated place. Keep cool.

**Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.



## 2. Hazards identification

**Hazards not otherwise classified** : None known.

## 3. Composition/information on ingredients

**Substance/mixture** : Mixture  
**Other means of identification** : Not available.

### CAS number/other identifiers

**CAS number** : Not applicable.  
**Product code** : 203

| Name   | CAS number | %         |
|--|------------|-----------|
| Naphtha (petroleum), hydrotreated heavy Stoddard solvent | 64742-48-9 | 40 - 70   |
| 1,2,4-trimethylbenzene                                   | 8052-41-3  | 15 - 40   |
| trimethylbenzene   | 95-63-6    | 3 - 7     |
| cumene   | 25551-13-7 | 1 - 5     |
|  | 98-82-8    | 0.1 - 1.0 |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

## 4. First aid measures

### Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention following exposure or if feeling unwell. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.  
**Inhalation** : No known significant effects or critical hazards.  
**Skin contact** : No known significant effects or critical hazards.  
**Ingestion** : May be fatal if swallowed and enters airways.

## 4. First aid measures

### Over-exposure signs/symptoms

- Eye contact** : No specific data.
- Inhalation** : No specific data.
- Skin contact** : No specific data.
- Ingestion** : Adverse symptoms may include the following:  
nausea or vomiting

### Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

## 5. Fire-fighting measures

### Extinguishing media

- Suitable extinguishing media** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.
- Unsuitable extinguishing media** : Do not use water jet.
- Specific hazards arising from the chemical** : Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide
- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

### Methods and materials for containment and cleaning up

## 6. Accidental release measures

- Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## 7. Handling and storage

### Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not breathe vapor or mist. Do not swallow. Avoid contact with eyes, skin and clothing. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

| Ingredient name                         | Exposure limits |
|---|-----------------|
| Naphtha (petroleum), hydrotreated heavy | -               |
| Stoddard solvent                        | -               |
| 1,2,4-trimethylbenzene                  | -               |
| trimethylbenzene                        | -               |
| cumene                                  | -               |

- Appropriate engineering controls** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

## 8. Exposure controls/personal protection

- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.
- Individual protection measures**
- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

## 9. Physical and chemical properties

- Physical state** : Liquid.
- Flash point** : Closed cup: 46°C (114.8°F) [Pensky-Martens.]
- Auto-ignition temperature** : Not available.
- Flammable limits** : Not available.
- Color** : Brown. [Light]
- Odor** : Solvents
- pH** : Not available.
- Boiling/condensation point** : 163°C (325.4°F)
- Melting/freezing point** : Not available.
- Specific gravity** : 0.8076
- Vapor pressure** : Not available.
- Vapor density** : Not available.
- Odor threshold** : Not available.
- Evaporation rate** : Not available.
- Viscosity** : Kinematic (40°C (104°F)): 0.017 cm<sup>2</sup>/s (1.7 cSt)
- Solubility** : Insoluble in the following materials: cold water and hot water.
- VOC content** : 74 % (w/w)
- Aerosol product**

## 10. Stability and reactivity

- Reactivity** : No specific test data related to reactivity available for this product or its ingredients.
- Chemical stability** : The product is stable.
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- Conditions to avoid** : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
- Incompatible materials** : Reactive or incompatible with the following materials:  
oxidizing materials
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

| Product/ingredient name                 | Result                | Species | Dose                    | Exposure |
|---|-----------------------|---------|-------------------------|----------|
| Naphtha (petroleum), hydrotreated heavy | LC50 Inhalation Vapor | Rat     | 8500 mg/m <sup>3</sup>  | 4 hours  |
| 1,2,4-trimethylbenzene                  | LD50 Oral             | Rat     | >6 g/kg                 | -        |
|   | LC50 Inhalation Vapor | Rat     | 18000 mg/m <sup>3</sup> | 4 hours  |
| trimethylbenzene<br>cumene              | LD50 Oral             | Rat     | 5 g/kg                  | -        |
|   | LD50 Oral             | Rat     | 8970 mg/kg              | -        |
|   | LC50 Inhalation Vapor | Rat     | 39000 mg/m <sup>3</sup> | 4 hours  |
|   | LD50 Oral             | Rat     | 1400 mg/kg              | -        |

#### Irritation/Corrosion

| Product/ingredient name | Result                   | Species | Score | Exposure                | Observation |
|-------------------------|--------------------------|---------|-------|-------------------------|-------------|
| Stoddard solvent        | Eyes - Mild irritant     | Human   | -     | 100 parts per million   | -           |
|                         | Eyes - Moderate irritant | Rabbit  | -     | 24 hours 500 milligrams | -           |
| trimethylbenzene        | Eyes - Mild irritant     | Rabbit  | -     | 24 hours 500 milligrams | -           |
|                         | Skin - Moderate irritant | Rabbit  | -     | 24 hours 500 milligrams | -           |
| cumene                  | Eyes - Mild irritant     | Rabbit  | -     | 24 hours 500 milligrams | -           |
|                         | Eyes - Mild irritant     | Rabbit  | -     | 86 milligrams           | -           |
|                         | Skin - Mild irritant     | Rabbit  | -     | 24 hours 10 milligrams  | -           |
|                         | Skin - Moderate irritant | Rabbit  | -     | 24 hours 100 milligrams | -           |

#### Sensitization

Not available.

#### Mutagenicity

Not available.

#### Carcinogenicity

Not available.

#### Classification

| Product/ingredient name | OSHA | IARC | NTP  |    |
|-------------------------|------|------|--|----|
| cumene                  | -    | 2B   | Reasonably anticipated to be a human carcinogen. | 89 |

## Section 11. Toxicological information

### Reproductive toxicity

Not available.

### Teratogenicity

Not available.

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

| Name    | Category   | Route of exposure | Target organs  |
|---------|------------|-------------------|----------------|
| BG CF5® | Category 1 | Not determined    | Not determined |

### Aspiration hazard

| Name   | Result   |
|--|--|
| BG CF5®<br>Naphtha (petroleum), hydrotreated heavy | ASPIRATION HAZARD - Category 1<br>ASPIRATION HAZARD - Category 1 |

**Information on the likely routes of exposure** : Not available.

### Potential acute health effects

**Eye contact** : No known significant effects or critical hazards.  
**Inhalation** : No known significant effects or critical hazards.  
**Skin contact** : No known significant effects or critical hazards.  
**Ingestion** : May be fatal if swallowed and enters airways.

### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : No specific data.  
**Inhalation** : No specific data.  
**Skin contact** : No specific data.  
**Ingestion** : Adverse symptoms may include the following:  
nausea or vomiting

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

**Potential immediate effects** : Not available.  
**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.  
**Potential delayed effects** : Not available.

### Potential chronic health effects

Not available.

**General** : Causes damage to organs through prolonged or repeated exposure.  
**Carcinogenicity** : No known significant effects or critical hazards.  
**Mutagenicity** : No known significant effects or critical hazards.  
**Teratogenicity** : No known significant effects or critical hazards.  
**Developmental effects** : No known significant effects or critical hazards.  
**Fertility effects** : No known significant effects or critical hazards.

## Section 11. Toxicological information

### Numerical measures of toxicity

#### Acute toxicity estimates

Not available.

## 12. Ecological information

### Toxicity

| Product/ingredient name | Result                            | Species                                      | Exposure |
|-------------------------|-----------------------------------|--|----------|
| 1,2,4-trimethylbenzene  | Acute LC50 4910 µg/l Marine water | Crustaceans - Elasmopus pecteniscrus - Adult | 48 hours |
| trimethylbenzene        | Acute LC50 7720 µg/l Fresh water  | Fish - Pimephales promelas                   | 96 hours |
|                         | Acute LC50 5600 µg/l Marine water | Crustaceans - Palaemonetes pugio             | 48 hours |
| cumene                  | Acute EC50 2600 µg/l Fresh water  | Algae - Pseudokirchneriella subcapitata      | 72 hours |
|                         | Acute EC50 7400 µg/l Fresh water  | Crustaceans - Artemia sp. - Nauplii          | 48 hours |
|                         | Acute EC50 10600 µg/l Fresh water | Daphnia - Daphnia magna - Neonate            | 48 hours |
|                         | Acute LC50 2700 µg/l Fresh water  | Fish - Oncorhynchus mykiss                   | 96 hours |

### Persistence and degradability

Not available.

### Bioaccumulative potential

| Product/ingredient name                                  | LogP <sub>ow</sub> | BCF        | Potential |
|--|--------------------|------------|-----------|
| Naphtha (petroleum), hydrotreated heavy Stoddard solvent | -                  | 10 to 2500 | high      |
| 1,2,4-trimethylbenzene                                   | 3.16 to 7.06       | -          | high      |
| trimethylbenzene   | 3.63               | 243        | low       |
| cumene   | 3.4 to 3.8         | -          | low       |
|  | 3.55               | 94.69      | low       |

### Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Other adverse effects** : No known significant effects or critical hazards.

## 13. Disposal considerations




**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**Disposal should be in accordance with applicable regional, national and local laws and regulations.**

**Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.**



## 14. Transport information

|                            | DOT Classification  | IMDG   | IATA  |
|----------------------------|---|--|---|
| UN number                  | UN1993  | UN1993   | UN1993  |
| UN proper shipping name    | FLAMMABLE LIQUIDS, N.O.S. (Stoddard solvent). Marine pollutant  | FLAMMABLE LIQUIDS, N.O.S. (Stoddard solvent)   | FLAMMABLE LIQUIDS, N.O.S. (Stoddard solvent)  |
| Transport hazard class(es) | 3<br>  | 3<br> | 3<br>  |
| Packing group              | III   | III  | III   |
| Environmental hazards      | No.   | No.  | No.   |
| Additional information     | <p>This product may be re-classified as "Combustible Liquid," unless transported by vessel or aircraft. Non-bulk packages (less than or equal to 119 gal) of combustible liquids, that are marine pollutants, are not regulated as hazardous materials in package sizes less than the product reportable quantity, unless transported by vessel.</p> <p>This product is not regulated as a marine pollutant when transported on inland waterways in sizes of ≤5 L or ≤5 kg or by road, rail, or inland air in non-bulk sizes, provided the packagings meet the general provisions of §§ 173.24 and 173.24a.</p> | <b>Emergency schedules</b> F-E, S-E  | <p>The environmentally hazardous substance mark may appear if required by other transportation regulations.</p> <p><b>Quantity limitation</b><br/>           Passenger and Cargo Aircraft: 60 L. Cargo Aircraft Only: 220 L. Limited Quantities - Passenger Aircraft: 10 L.</p> |

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Transport in bulk according to Annex II of MARPOL and the IBC Code** : Not available.

## 15. Regulatory information

**U.S. Federal regulations** : **TSCA 8(a) PAIR:** naphthalene  
**TSCA 8(a) CDR Exempt/Partial exemption:** Not determined  
**United States inventory (TSCA 8b):** Not determined.  
**Clean Water Act (CWA) 307:** ethylbenzene; naphthalene; toluene; benzene  
**Clean Water Act (CWA) 311:** ethylbenzene; xylene; naphthalene; toluene; benzene



## 15. Regulatory information

**Clean Air Act Section 112** : Listed

**(b) Hazardous Air Pollutants (HAPs)**

### SARA 302/304

#### Composition/information on ingredients

No products were found.

**SARA 304 RQ** : Not applicable.

### SARA 311/312

**Classification** : Fire hazard  
Immediate (acute) health hazard  
Delayed (chronic) health hazard

#### Composition/information on ingredients

| Name  | Fire hazard | Sudden release of pressure | Reactive | Immediate (acute) health hazard | Delayed (chronic) health hazard |
|---|-------------|----------------------------|----------|---------------------------------|---------------------------------|
| Stoddard solvent                            | Yes.        | No.                        | No.      | Yes.                            | Yes.                            |
| Distillates (petroleum), hydrotreated light | Yes.        | No.                        | No.      | No.                             | Yes.                            |
| 1,2,4-trimethylbenzene                      | Yes.        | No.                        | No.      | No.                             | Yes.                            |
| trimethylbenzene                            | Yes.        | No.                        | No.      | Yes.                            | Yes.                            |
| cumene                                      | Yes.        | No.                        | No.      | Yes.                            | Yes.                            |

### SARA 313

|  | Product name                           | CAS number          |
|--|--|---------------------|
| <b>Form R - Reporting requirements</b> | 1,2,4-trimethylbenzene<br>ethylbenzene | 95-63-6<br>100-41-4 |
| <b>Supplier notification</b>           | 1,2,4-trimethylbenzene<br>ethylbenzene | 95-63-6<br>100-41-4 |

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

### State regulations

- Massachusetts** : The following components are listed: PSEUDOCUMENE; STODDARD SOLVENT; TRIMETHYL BENZENE
- New York** : The following components are listed: Cumene; Benzene, 1-methylethyl-
- New Jersey** : The following components are listed: PSEUDOCUMENE; 1,2,4-TRIMETHYL BENZENE; STODDARD SOLVENT; TRIMETHYL BENZENE (mixed isomers); BENZENE, TRIMETHYL-; CUMENE; BENZENE, (1-METHYLETHYL)-
- Pennsylvania** : The following components are listed: PSEUDOCUMENE; STODDARD SOLVENT; BENZENE, TRIMETHYL-; BENZENE, (1-METHYLETHYL)-

### California Prop. 65

**WARNING:** This product contains a chemical known to the State of California to cause cancer. **WARNING:** This product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm.

## 15. Regulatory information

| Ingredient name | Cancer | Reproductive | No significant risk level | Maximum acceptable dosage level |
|-----------------|--------|--------------|---------------------------|---------------------------------|
| ethylbenzene    | Yes.   | No.          |                           |                                 |
| cumene          | Yes.   | No.          |                           |                                 |
| naphthalene     | Yes.   | No.          |                           |                                 |
| toluene         | No.    | Yes.         |                           |                                 |
| benzene         | Yes.   | Yes.         |                           |                                 |

**United States inventory (TSCA 8b)** : Not determined.

### Canada

**WHMIS (Canada)** : Class B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).  
Class D-2A: Material causing other toxic effects (Very toxic).  
Class D-2B: Material causing other toxic effects (Toxic).

### Canadian lists

**Canadian NPRI** : The following components are listed: Hydrotreated heavy naphtha; 1,2,4-Trimethylbenzene; Stoddard solvent; Trimethylbenzene; Hydrotreated light distillate

**CEPA Toxic substances** : None of the components are listed.

**Canada inventory** : Not determined.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol (Annexes A, B, C, E)

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

### International lists

#### National inventory

**Australia** : Not determined.  
**Canada** : Not determined.  
**China** : Not determined.  
**Europe** : Not determined.  
**Japan** : **Japan inventory (ENCS)**: Not determined.  
**Japan inventory (ISHL)**: Not determined.  
**Malaysia** : Not determined.  
**New Zealand** : Not determined.  
**Philippines** : Not determined.  
**Republic of Korea** : Not determined.  
**Taiwan** : Not determined.

## 16. Other information

### Hazardous Material Information System (U.S.A.)

|                  |   |   |
|------------------|---|---|
| Health           | * | 2 |
| Flammability     |   | 2 |
| Physical hazards |   | 0 |
|                  |   |   |

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on MSDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

### National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

### History

|                                       |                          |
|---------------------------------------|--------------------------|
| <b>Date of printing</b>               | : 4/20/2017              |
| <b>Date of issue/Date of revision</b> | : 4/20/2017              |
| <b>Date of previous issue</b>         | : No previous validation |
| <b>Version</b>                        | : 1                      |

|                             |  |
|-----------------------------|--|
| <b>Key to abbreviations</b> | : ATE = Acute Toxicity Estimate<br>BCF = Bioconcentration Factor<br>GHS = Globally Harmonized System of Classification and Labelling of Chemicals<br>IATA = International Air Transport Association<br>IBC = Intermediate Bulk Container<br>IMDG = International Maritime Dangerous Goods<br>LogPow = logarithm of the octanol/water partition coefficient<br>MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)<br>UN = United Nations |
|-----------------------------|--|

**References** : Not available.

☑ Indicates information that has changed from previously issued version.

### Notice to reader

## 16. Other information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

# Safety Data Sheet: BIG TEX

Supersedes Date: 04/11/2014

Issuing Date: 05/03/2021

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** BIG TEX  
**Recommended use** Cleaning agent  
**Information on Manufacturer**  
MANTEK, DIVISION OF NCH CORP.  
BOX 152170  
IRVING, TEXAS 75015

**Product Code:** 0003  
**Chemical nature** Aqueous surfactant solution  
**Emergency Telephone**  
038-086-300-5  
**Telephone inquiry**  
972-579-2477

## 2. HAZARD IDENTIFICATION

**Color** Yellow - Grass green

**Physical state** Liquid

**Odor** Slight

### GHS

#### Classification

##### Physical Hazards

Corrosive to Metals

Category 1

##### Health Hazard

Skin Corrosion/Irritation

Category 1

Serious Eye Damage/Eye Irritation

Category 1

##### Other hazards

None

### Labeling

#### Signal Word

**DANGER**



#### Hazard statements

H314 - Causes severe skin burns and eye damage

H290 - May be corrosive to metals

#### Precautionary Statements

P280 - Wear protective gloves, protective clothing, eye protection and face protection.

P264 - Wash face, hands and any exposed skin thoroughly after handling.

P260 - Do not breathe mist

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P332 + P313 - If skin irritation occurs, get medical attention.

P363 - Wash contaminated clothing before reuse

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a physician.

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P342 + P311 - If experiencing respiratory symptoms, call a physician.

P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Call a physician if unwell.

P390 - Absorb spillage to prevent damage.

P406 - Store in a corrosion-resistant container.

P501 - Dispose of contents and container in accordance with applicable regulations

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

| Chemical name       | CAS No.   | Weight-% |
|---------------------|-----------|----------|
| Butoxyethanol       | 111-76-2  | 3-7      |
| Sodium metasilicate | 6834-92-0 | 1-5      |
| Trisodium phosphate | 7601-54-9 | 1-5      |

\*The exact percentage (concentration) of composition has been withheld as a trade secret

## 4. FIRST AID MEASURES

|                           |   |
|---------------------------|---|
| <b>General advice</b>     | Do not get in eyes, on skin or on clothing. Do not breathe mist.  |
| <b>Eye Contact</b>        | Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention immediately. |
| <b>Skin Contact</b>       | Remove immediately all contaminated clothing. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately.                         |
| <b>Inhalation</b>         | Move to fresh air. In case of shortness of breath, give oxygen. If breathing has stopped, apply artificial respiration. Get medical attention immediately.                  |
| <b>Ingestion</b>          | Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person.                            |
| <b>Notes to physician</b> | The product causes burns of eyes, skin and mucous membranes. Control of circulatory system, shock therapy if needed.  |

## 5. FIRE-FIGHTING MEASURES

|  |   |                       |                          |
|--|---|-----------------------|--------------------------|
| <b>Flash Point</b>   | Does not flash  | <b>Method</b>         | Not applicable           |
| <b>Flammability Limits in Air %:</b>                         | Hydrogen, by reaction with metals.  | <b>Upper:</b>         | 75                       |
|  |   | <b>Lower:</b>         | 4                        |
| <b>Suitable Extinguishing Media</b>                          | Carbon dioxide (CO <sub>2</sub> ). Foam. Dry chemical. Water spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |                       |                          |
| <b>Specific hazards arising from the chemical</b>            | Material can create slippery conditions. Contact with metals may evolve flammable hydrogen gas.   |                       |                          |
| <b>Protective Equipment and Precautions for Firefighters</b> | As in any fire, wear self-contained breathing apparatus pressure-demand, NOHSC (approved or equivalent) and full protective gear.   |                       |                          |
| <b>NFPA</b>  | <b>Health</b> 3   | <b>Flammability</b> 0 | <b>Instability</b> 0     |
| <b>HMIS -</b>  | <b>Health</b> 3   | <b>Flammability</b> 0 | <b>Physical Hazard</b> 0 |

## 6. ACCIDENTAL RELEASE MEASURES

|                                  |   |
|----------------------------------|---|
| <b>Personal Precautions</b>      | Use personal protective equipment. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions.   |
| <b>Environmental precautions</b> | Do not flush into surface water or sanitary sewer system.   |
| <b>Methods for Containment</b>   | Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). |
| <b>Methods for Cleaning Up</b>   | Pick up and transfer to properly labeled containers.  |
| <b>Neutralizing Agent</b>        | Acetic acid, diluted.   |

## 7. HANDLING AND STORAGE

|                            |  |              |                |                     |
|----------------------------|--|--------------|----------------|---------------------|
| <b>Handling</b>            | Do not get in eyes, on skin or on clothing. Do not breathe mist.   |              |                |                     |
| <b>Storage</b>             | Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Metal containers must be lined. Freezing will affect the physical condition but will not damage the material. Thin and mix before using. |              |                |                     |
| <b>Storage Temperature</b> | <b>Minimum</b>   | 36 °F / 2 °C | <b>Maximum</b> | 120 °F / 49 °C      |
| <b>Storage Conditions</b>  | <b>Indoor</b>  | X            | <b>Outdoor</b> |                     |
|                            |  |              | <b>Heated</b>  | <b>Refrigerated</b> |

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

## Exposure Guidelines

| Chemical name | ACGIH TLV   | OSHA PEL  | NIOSH  |
|---------------|-------------|---|--|
| Butoxyethanol | TWA: 20 ppm | TWA: 50 ppm<br>TWA: 240 mg/m <sup>3</sup><br>Skin | 700 ppm<br>TWA: 5 ppm<br>TWA: 24 mg/m <sup>3</sup> |

|                                       |  |
|---------------------------------------|--|
| <b>Engineering Measures</b>           | Ensure adequate ventilation, especially in confined areas. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. |
| <b>Personal Protective Equipment</b>  |  |
| <b>Eye/Face Protection</b>            | Tightly fitting safety goggles. Face-shield.   |
| <b>Skin Protection</b>                | Wear suitable protective clothing, Impervious gloves.  |
| <b>Respiratory Protection</b>         | In case of inadequate ventilation wear respiratory protection. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.      |
| <b>General Hygiene Considerations</b> | Wear protective gloves/clothing. Ensure that eyewash stations and safety showers are close to the workstation location. Remove and wash contaminated clothing before re-use.         |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                      |                                   |                                  |                   |
|--------------------------------------|-----------------------------------|----------------------------------|-------------------|
| <b>Physical state</b>                | Liquid                            | <b>Viscosity</b>                 | Non viscous       |
| <b>Color</b>                         | Yellow - Grass green              | <b>Odor</b>                      | Slight            |
| <b>Odor Threshold</b>                | Not applicable                    | <b>Appearance</b>                | Transparent       |
| <b>pH</b>                            | 12.4                              | <b>Specific Gravity</b>          | 1.04              |
| <b>Evaporation Rate</b>              | 0.55 (Butyl acetate=1)            | <b>Percent Volatile (Volume)</b> | 0                 |
| <b>VOC Content (%)</b>               | 3.81                              | <b>VOC Content (g/L)</b>         | 40                |
| <b>Vapor pressure</b>                | 16.6 mmHg @ 70°F                  | <b>Vapor Density</b>             | 0.6 (Air = 1.0)   |
| <b>Solubility</b>                    | Completely soluble                | <b>n-Octanol/Water Partition</b> | No data available |
| <b>Melting Point/Range</b>           | No data available                 | <b>Decomposition Temperature</b> | No data available |
| <b>Boiling Point/Range</b>           | 210 °F / 99 °C                    | <b>Flammability (solid, gas)</b> | No data available |
| <b>Flash Point</b>                   | Does not flash                    | <b>Method</b>                    | Not applicable    |
| <b>Autoignition Temperature</b>      | No information available.         |                                  |                   |
| <b>Flammability Limits in Air %:</b> | Hydrogen, by reaction with metals | <b>Upper: 75 Lower: 4</b>        |                   |

## 10. STABILITY AND REACTIVITY

|   |  |
|---|--|
| <b>Chemical Stability</b>                 | Stable. Hazardous polymerization does not occur.   |
| <b>Conditions to Avoid</b>                | None known.  |
| <b>Incompatible Products</b>              | Strong oxidizing agents, Strong acids, Strong bases, Ammonium salts, Reducing agents, Aldehydes. |
| <b>Decomposition Temperature</b>          | No data available  |
| <b>Hazardous Decomposition Products</b>   | Carbon oxides, Aldehydes, Sulfur oxides, Hydrogen, by reaction with metals.                      |
| <b>Possibility of Hazardous Reactions</b> | None under normal processing.  |

## 11. TOXICOLOGICAL INFORMATION

Product Information No information available.

The following values are calculated based on chapter 3.1 of the GHS document

|                        |  |
|------------------------|--|
| <b>Oral LD50</b>       | No information available                             |
| <b>Dermal LD50</b>     | No information available                             |
| <b>Inhalation LC50</b> |  |
| <b>Gas</b>             | No information available not hazardous by inhalation |
| <b>Mist</b>            | No information available                             |
| <b>Vapor</b>           | No information available                             |

**Principle Route of Exposure** Skin contact, Eye contact, Inhalation.

**Primary Routes of Entry** Skin Absorption, Skin contact.

**Acute Effects:**

|                   |   |
|-------------------|---|
| <b>Eyes</b>       | Corrosive to the eyes and may cause severe damage including blindness.  |
| <b>Skin</b>       | Causes skin burns.  |
| <b>Inhalation</b> | Harmful by inhalation. Causes burns.  |
| <b>Ingestion</b>  | If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach. Acidosis. |

**Chronic Toxicity**

**Target Organ Effects:** Inhaled corrosive substances can lead to a toxic edema of the lungs.

**Aggravated Medical Conditions** Central Nervous System, Respiratory system, Blood, Liver, Kidney, Spleen, Skin, Eyes. Respiratory disorders, Kidney disorders, Liver disorders, Neurological disorders, Skin disorders, Blood disorders.

Component Information

**Acute Toxicity**

| Chemical name                    | Oral LD50            | Dermal LD50          | Inhalation LC50         | Draize Test       | Other             |
|----------------------------------|----------------------|----------------------|-------------------------|-------------------|-------------------|
| Butoxyethanol<br>111-76-2        | 470 mg/kg ( Rat )    | 220 mg/kg ( Rabbit ) | 450 ppm ( Rat ) 4 h     | No data available | No data available |
| Sodium metasilicate<br>6834-92-0 | 1153 mg/kg ( Rat )   | no data available    | No data available       | No data available | No data available |
| Trisodium phosphate<br>7601-54-9 | > 2000 mg/kg ( Rat ) | > 300 mg/kg (Rabbit) | > 2.16 mg/L ( Rat ) 1 h | No data available | No data available |

**Chronic Toxicity**

| Chemical name             | Mutagenicity      | Sensitization     | Developmental Toxicity | Reproductive Toxicity | Target Organ Effects   |
|---------------------------|-------------------|-------------------|------------------------|-----------------------|--|
| Butoxyethanol<br>111-76-2 | No data available | No data available | No data available      | No data available     | Blood; Hematopoietic System; Skin; Central nervous system; Eyes; Respiratory system; Liver; Kidney |

**Carcinogenicity**

The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical name             | ACGIH | IARC    | NTP            | OSHA           | Other          |
|---------------------------|-------|---------|----------------|----------------|----------------|
| Butoxyethanol<br>111-76-2 | A3    | Group 3 | Not applicable | Not applicable | Not applicable |

## 12. ECOLOGICAL INFORMATION

Product Information No information available.

Additional Ecological Information: No information available

Component Information

| Chemical name       | Toxicity to Algae         | Toxicity to Fish   | Microtox                 | Crustacea   | Partition coefficient |
|---------------------|---------------------------|--|--------------------------|---|-----------------------|
| Butoxyethanol       | No information available. | LC50 = 1490 mg/L Lepomis macrochirus 96 h<br>LC50 = 2950 mg/L Lepomis macrochirus 96 h | No information available | 1698 - 1940: 24 h Daphnia magna mg/L EC50<br>1000: 48 h Daphnia magna mg/L EC50 | 0.81                  |
| Sodium metasilicate | No information available. | LC50 = 210 mg/L Brachydanio rerio 96 h   | No information available | 216: 96 h Daphnia magna mg/L EC50   | N/A                   |

**Persistence and Degradability** No information available.  
**Bioaccumulation** No information available.  
**Mobility** No information available.

## 13. DISPOSAL CONSIDERATIONS

**Product Disposal** Dispose of in accordance with local regulations.  
**Container Disposal** Empty containers should be taken for local recycling, recovery, or waste disposal.

## 14. TRANSPORT INFORMATION

DOT

**Proper Shipping Name** CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.  
**Hazard Class** 8  
**UN-No** UN3266  
**Packing Group** II  
**Description** UN3266, CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.,(SODIUM METASILICATE), 8, PG II

TDG

**Proper shipping name** CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.  
**Hazard Class** 8  
**UN-No** UN3266  
**Packing Group** II  
**Description** UN3266, CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.,(SODIUM METASILICATE), 8, PG II

ICAO

**UN-No** UN3266  
**Proper Shipping Name** CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.  
**Hazard Class** 8  
**Packing Group** II  
**Shipping Description** UN3266, CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.,(SODIUM METASILICATE), 8, PG II

IATA

**UN-No** UN3266  
**Proper Shipping Name** CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.  
**Hazard Class** 8  
**Packing Group** II  
**Shipping Description** UN3266, CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.,(SODIUM METASILICATE), 8, PG II

IMDG/IMO

**UN proper shipping name** CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.  
**Hazard Class** 8  
**UN Number** UN3266  
**Packing Group** II  
**Description** UN3266, CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.,(SODIUM METASILICATE), 8, PG II



## 15. REGULATORY INFORMATION

## Inventories

TSCA Complies  
 DSL Complies

## U.S. Federal Regulations

## SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

| Chemical name | CAS No.  | Weight-% | SARA 313 - Threshold Values |
|---------------|----------|----------|-----------------------------|
| Butoxyethanol | 111-76-2 | 3-7      | 1.0                         |

## SARA 311/312 Hazardous Categorization

See Section 2

## CERCLA

| Chemical name       | Hazardous Substances RQs | CERCLA EHS RQs |
|---------------------|--------------------------|----------------|
| Trisodium phosphate | 5000 lb                  | Not applicable |

## 16. OTHER INFORMATION

Prepared By Kim Franklin  
 Supersedes Date: 04/11/2014  
 Issuing Date: 05/03/2021  
 Reason for Revision No information available.  
 Glossary No information available.  
 List of References. No information available.

**MANTEK, DIVISION OF NCH CORP. assumes no responsibility for personal injury or property damage caused by the use, storage, or disposal of the product in a manner not recommended on the product label. Users assume all risks associated with such unrecommended use, storage or disposal of the product. The information provided on this document is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.**

# SAFETY DATA SHEET

BG CF5®



## 1. Product and company identification

**Manufacturer** : BG Products Inc.  
701 S. Wichita Street  
Wichita, KS, 67213, USA  
www.bgprod.com

### Relevant identified uses of the substance or mixture and uses advised against

#### Identified uses

Fuel additives

**MSDS #** : 203  
**Validation date** : 4/20/2017  
**Responsible name** : Kolin Anglin, Environmental Coordinator  
316-265-2686  
msds@bgprod.com  
**In case of emergency** : (800) 424-9300 (CHEMTREC)

## 2. Hazards identification

**OSHA/HCS status** : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).  
**Classification of the substance or mixture** : FLAMMABLE LIQUIDS - Category 3  
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1  
ASPIRATION HAZARD - Category 1  
Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 49.2%  
Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 96.3%  
Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 49.2%

### GHS label elements

#### Hazard pictograms



**Signal word** : Danger  
**Hazard statements** : Flammable liquid and vapor.  
May be fatal if swallowed and enters airways.  
Causes damage to organs through prolonged or repeated exposure.

### Precautionary statements

**Prevention** : Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.  
**Response** : Get medical attention if you feel unwell. IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
**Storage** : Store locked up. Store in a well-ventilated place. Keep cool.  
**Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.

## 2. Hazards identification

**Hazards not otherwise classified** : None known.

## 3. Composition/information on ingredients

**Substance/mixture** : Mixture  
**Other means of identification** : Not available.

### CAS number/other identifiers

**CAS number** : Not applicable.  
**Product code** : 203

| Name   | CAS number | %         |
|--|------------|-----------|
| Naphtha (petroleum), hydrotreated heavy Stoddard solvent | 64742-48-9 | 40 - 70   |
| 1,2,4-trimethylbenzene                                   | 8052-41-3  | 15 - 40   |
| trimethylbenzene   | 95-63-6    | 3 - 7     |
| cumene   | 25551-13-7 | 1 - 5     |
|  | 98-82-8    | 0.1 - 1.0 |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

## 4. First aid measures

### Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention following exposure or if feeling unwell. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.  
**Inhalation** : No known significant effects or critical hazards.  
**Skin contact** : No known significant effects or critical hazards.  
**Ingestion** : May be fatal if swallowed and enters airways.

## 4. First aid measures

### Over-exposure signs/symptoms

- Eye contact** : No specific data.
- Inhalation** : No specific data.
- Skin contact** : No specific data.
- Ingestion** : Adverse symptoms may include the following:  
nausea or vomiting

### Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

## 5. Fire-fighting measures

### Extinguishing media

- Suitable extinguishing media** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.
- Unsuitable extinguishing media** : Do not use water jet.
- Specific hazards arising from the chemical** : Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide
- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

### Methods and materials for containment and cleaning up

## 6. Accidental release measures

- Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## 7. Handling and storage

### Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not breathe vapor or mist. Do not swallow. Avoid contact with eyes, skin and clothing. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

| Ingredient name                         | Exposure limits |
|---|-----------------|
| Naphtha (petroleum), hydrotreated heavy | -               |
| Stoddard solvent                        | -               |
| 1,2,4-trimethylbenzene                  | -               |
| trimethylbenzene                        | -               |
| cumene                                  | -               |

- Appropriate engineering controls** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

## 8. Exposure controls/personal protection

- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.
- Individual protection measures**
- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

## 9. Physical and chemical properties

- Physical state** : Liquid.
- Flash point** : Closed cup: 46°C (114.8°F) [Pensky-Martens.]
- Auto-ignition temperature** : Not available.
- Flammable limits** : Not available.
- Color** : Brown. [Light]
- Odor** : Solvents
- pH** : Not available.
- Boiling/condensation point** : 163°C (325.4°F)
- Melting/freezing point** : Not available.
- Specific gravity** : 0.8076
- Vapor pressure** : Not available.
- Vapor density** : Not available.
- Odor threshold** : Not available.
- Evaporation rate** : Not available.
- Viscosity** : Kinematic (40°C (104°F)): 0.017 cm<sup>2</sup>/s (1.7 cSt)
- Solubility** : Insoluble in the following materials: cold water and hot water.
- VOC content** : 74 % (w/w)
- Aerosol product**

## 10. Stability and reactivity

|   |   |
|---|---|
| <b>Reactivity</b>                         | : No specific test data related to reactivity available for this product or its ingredients.  |
| <b>Chemical stability</b>                 | : The product is stable.  |
| <b>Possibility of hazardous reactions</b> | : Under normal conditions of storage and use, hazardous reactions will not occur.   |
| <b>Conditions to avoid</b>                | : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. |
| <b>Incompatible materials</b>             | : Reactive or incompatible with the following materials:<br>oxidizing materials   |
| <b>Hazardous decomposition products</b>   | : Under normal conditions of storage and use, hazardous decomposition products should not be produced.  |

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

| Product/ingredient name                 | Result                | Species | Dose                    | Exposure |
|---|-----------------------|---------|-------------------------|----------|
| Naphtha (petroleum), hydrotreated heavy | LC50 Inhalation Vapor | Rat     | 8500 mg/m <sup>3</sup>  | 4 hours  |
| 1,2,4-trimethylbenzene                  | LD50 Oral             | Rat     | >6 g/kg                 | -        |
|   | LC50 Inhalation Vapor | Rat     | 18000 mg/m <sup>3</sup> | 4 hours  |
| trimethylbenzene<br>cumene              | LD50 Oral             | Rat     | 5 g/kg                  | -        |
|   | LD50 Oral             | Rat     | 8970 mg/kg              | -        |
|   | LC50 Inhalation Vapor | Rat     | 39000 mg/m <sup>3</sup> | 4 hours  |
|   | LD50 Oral             | Rat     | 1400 mg/kg              | -        |

#### Irritation/Corrosion

| Product/ingredient name | Result                   | Species | Score | Exposure                | Observation |
|-------------------------|--------------------------|---------|-------|-------------------------|-------------|
| Stoddard solvent        | Eyes - Mild irritant     | Human   | -     | 100 parts per million   | -           |
|                         | Eyes - Moderate irritant | Rabbit  | -     | 24 hours 500 milligrams | -           |
| trimethylbenzene        | Eyes - Mild irritant     | Rabbit  | -     | 24 hours 500 milligrams | -           |
|                         | Skin - Moderate irritant | Rabbit  | -     | 24 hours 500 milligrams | -           |
| cumene                  | Eyes - Mild irritant     | Rabbit  | -     | 24 hours 500 milligrams | -           |
|                         | Eyes - Mild irritant     | Rabbit  | -     | 86 milligrams           | -           |
|                         | Skin - Mild irritant     | Rabbit  | -     | 24 hours 10 milligrams  | -           |
|                         | Skin - Moderate irritant | Rabbit  | -     | 24 hours 100 milligrams | -           |

#### Sensitization

Not available.

#### Mutagenicity

Not available.

#### Carcinogenicity

Not available.

#### Classification

| Product/ingredient name | OSHA | IARC | NTP  |
|-------------------------|------|------|--|
| cumene                  | -    | 2B   | Reasonably anticipated to be a human carcinogen. |

107



## Section 11. Toxicological information

### Reproductive toxicity

Not available.

### Teratogenicity

Not available.

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

| Name    | Category   | Route of exposure | Target organs  |
|---------|------------|-------------------|----------------|
| BG CF5® | Category 1 | Not determined    | Not determined |

### Aspiration hazard

| Name   | Result   |
|--|--|
| BG CF5®<br>Naphtha (petroleum), hydrotreated heavy | ASPIRATION HAZARD - Category 1<br>ASPIRATION HAZARD - Category 1 |

**Information on the likely routes of exposure** : Not available.

### Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : May be fatal if swallowed and enters airways.

### Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : No specific data.
- Inhalation** : No specific data.
- Skin contact** : No specific data.
- Ingestion** : Adverse symptoms may include the following:  
nausea or vomiting

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

#### Long term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

### Potential chronic health effects

Not available.

- General** : Causes damage to organs through prolonged or repeated exposure.
- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Teratogenicity** : No known significant effects or critical hazards.
- Developmental effects** : No known significant effects or critical hazards.
- Fertility effects** : No known significant effects or critical hazards.



## Section 11. Toxicological information

### Numerical measures of toxicity

#### Acute toxicity estimates

Not available.

## 12. Ecological information

### Toxicity

| Product/ingredient name | Result                            | Species                                      | Exposure |
|-------------------------|-----------------------------------|--|----------|
| 1,2,4-trimethylbenzene  | Acute LC50 4910 µg/l Marine water | Crustaceans - Elasmopus pecteniscrus - Adult | 48 hours |
| trimethylbenzene        | Acute LC50 7720 µg/l Fresh water  | Fish - Pimephales promelas                   | 96 hours |
|                         | Acute LC50 5600 µg/l Marine water | Crustaceans - Palaemonetes pugio             | 48 hours |
| cumene                  | Acute EC50 2600 µg/l Fresh water  | Algae - Pseudokirchneriella subcapitata      | 72 hours |
|                         | Acute EC50 7400 µg/l Fresh water  | Crustaceans - Artemia sp. - Nauplii          | 48 hours |
|                         | Acute EC50 10600 µg/l Fresh water | Daphnia - Daphnia magna - Neonate            | 48 hours |
|                         | Acute LC50 2700 µg/l Fresh water  | Fish - Oncorhynchus mykiss                   | 96 hours |

### Persistence and degradability

Not available.

### Bioaccumulative potential

| Product/ingredient name                                  | LogP <sub>ow</sub> | BCF        | Potential |
|--|--------------------|------------|-----------|
| Naphtha (petroleum), hydrotreated heavy Stoddard solvent | -                  | 10 to 2500 | high      |
| 1,2,4-trimethylbenzene                                   | 3.16 to 7.06       | -          | high      |
| trimethylbenzene   | 3.63               | 243        | low       |
| cumene   | 3.4 to 3.8         | -          | low       |
|  | 3.55               | 94.69      | low       |

### Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Other adverse effects** : No known significant effects or critical hazards.





## 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**Disposal should be in accordance with applicable regional, national and local laws and regulations.**

**Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.**

## 14. Transport information

|                            | DOT Classification  | IMDG   | IATA  |
|----------------------------|---|--|---|
| UN number                  | UN1993  | UN1993   | UN1993  |
| UN proper shipping name    | FLAMMABLE LIQUIDS, N.O.S. (Stoddard solvent). Marine pollutant  | FLAMMABLE LIQUIDS, N.O.S. (Stoddard solvent)   | FLAMMABLE LIQUIDS, N.O.S. (Stoddard solvent)  |
| Transport hazard class(es) | 3<br>   | 3<br> | 3<br>  |
| Packing group              | III   | III  | III   |
| Environmental hazards      | No.   | No.  | No.   |
| Additional information     | <p>This product may be re-classified as "Combustible Liquid," unless transported by vessel or aircraft. Non-bulk packages (less than or equal to 119 gal) of combustible liquids, that are marine pollutants, are not regulated as hazardous materials in package sizes less than the product reportable quantity, unless transported by vessel.</p> <p>This product is not regulated as a marine pollutant when transported on inland waterways in sizes of ≤5 L or ≤5 kg or by road, rail, or inland air in non-bulk sizes, provided the packagings meet the general provisions of §§ 173.24 and 173.24a.</p> | <b>Emergency schedules</b> F-E, S-E  | <p>The environmentally hazardous substance mark may appear if required by other transportation regulations.</p> <p><b>Quantity limitation</b><br/>           Passenger and Cargo Aircraft: 60 L. Cargo Aircraft Only: 220 L. Limited Quantities - Passenger Aircraft: 10 L.</p> |

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Transport in bulk according to Annex II of MARPOL and the IBC Code** : Not available.

## 15. Regulatory information

**U.S. Federal regulations** : **TSCA 8(a) PAIR:** naphthalene  
**TSCA 8(a) CDR Exempt/Partial exemption:** Not determined  
**United States inventory (TSCA 8b):** Not determined.  
**Clean Water Act (CWA) 307:** ethylbenzene; naphthalene; toluene; benzene  
**Clean Water Act (CWA) 311:** ethylbenzene; xylene; naphthalene; toluene; benzene

## 15. Regulatory information

**Clean Air Act Section 112** : Listed

**(b) Hazardous Air Pollutants (HAPs)**

### SARA 302/304

#### Composition/information on ingredients

No products were found.

**SARA 304 RQ** : Not applicable.

### SARA 311/312

**Classification** : Fire hazard  
Immediate (acute) health hazard  
Delayed (chronic) health hazard

#### Composition/information on ingredients

| Name  | Fire hazard | Sudden release of pressure | Reactive | Immediate (acute) health hazard | Delayed (chronic) health hazard |
|---|-------------|----------------------------|----------|---------------------------------|---------------------------------|
| Stoddard solvent                            | Yes.        | No.                        | No.      | Yes.                            | Yes.                            |
| Distillates (petroleum), hydrotreated light | Yes.        | No.                        | No.      | No.                             | Yes.                            |
| 1,2,4-trimethylbenzene                      | Yes.        | No.                        | No.      | No.                             | Yes.                            |
| trimethylbenzene                            | Yes.        | No.                        | No.      | Yes.                            | Yes.                            |
| cumene                                      | Yes.        | No.                        | No.      | Yes.                            | Yes.                            |

### SARA 313

|  | Product name                           | CAS number          |
|--|--|---------------------|
| <b>Form R - Reporting requirements</b> | 1,2,4-trimethylbenzene<br>ethylbenzene | 95-63-6<br>100-41-4 |
| <b>Supplier notification</b>           | 1,2,4-trimethylbenzene<br>ethylbenzene | 95-63-6<br>100-41-4 |

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

### State regulations

- Massachusetts** : The following components are listed: PSEUDOCUMENE; STODDARD SOLVENT; TRIMETHYL BENZENE
- New York** : The following components are listed: Cumene; Benzene, 1-methylethyl-
- New Jersey** : The following components are listed: PSEUDOCUMENE; 1,2,4-TRIMETHYL BENZENE; STODDARD SOLVENT; TRIMETHYL BENZENE (mixed isomers); BENZENE, TRIMETHYL-; CUMENE; BENZENE, (1-METHYLETHYL)-
- Pennsylvania** : The following components are listed: PSEUDOCUMENE; STODDARD SOLVENT; BENZENE, TRIMETHYL-; BENZENE, (1-METHYLETHYL)-

### California Prop. 65

**WARNING:** This product contains a chemical known to the State of California to cause cancer. **WARNING:** This product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm.

## 15. Regulatory information

| Ingredient name | Cancer | Reproductive | No significant risk level | Maximum acceptable dosage level |
|-----------------|--------|--------------|---------------------------|---------------------------------|
| ethylbenzene    | Yes.   | No.          |                           |                                 |
| cumene          | Yes.   | No.          |                           |                                 |
| naphthalene     | Yes.   | No.          |                           |                                 |
| toluene         | No.    | Yes.         |                           |                                 |
| benzene         | Yes.   | Yes.         |                           |                                 |

**United States inventory (TSCA 8b)** : Not determined.

### Canada

**WHMIS (Canada)** : Class B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).  
Class D-2A: Material causing other toxic effects (Very toxic).  
Class D-2B: Material causing other toxic effects (Toxic).

### Canadian lists

**Canadian NPRI** : The following components are listed: Hydrotreated heavy naphtha; 1,2,4-Trimethylbenzene; Stoddard solvent; Trimethylbenzene; Hydrotreated light distillate

**CEPA Toxic substances** : None of the components are listed.

**Canada inventory** : Not determined.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol (Annexes A, B, C, E)

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

### International lists

#### National inventory

**Australia** : Not determined.  
**Canada** : Not determined.  
**China** : Not determined.  
**Europe** : Not determined.  
**Japan** : **Japan inventory (ENCS)**: Not determined.  
**Japan inventory (ISHL)**: Not determined.  
**Malaysia** : Not determined.  
**New Zealand** : Not determined.  
**Philippines** : Not determined.  
**Republic of Korea** : Not determined.  
**Taiwan** : Not determined.

## 16. Other information

### Hazardous Material Information System (U.S.A.)

|                  |   |   |
|------------------|---|---|
| Health           | * | 2 |
| Flammability     |   | 2 |
| Physical hazards |   | 0 |
|                  |   |   |

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on MSDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

### National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

### History

|                                |                          |
|--------------------------------|--------------------------|
| Date of printing               | : 4/20/2017              |
| Date of issue/Date of revision | : 4/20/2017              |
| Date of previous issue         | : No previous validation |
| Version                        | : 1                      |

|                       |   |
|-----------------------|---|
| Key to abbreviations  | : ATE = Acute Toxicity Estimate   |
|                       | : BCF = Bioconcentration Factor   |
|                       | : GHS = Globally Harmonized System of Classification and Labelling of Chemicals   |
|                       | : IATA = International Air Transport Association  |
|                       | : IBC = Intermediate Bulk Container   |
|                       | : IMDG = International Maritime Dangerous Goods   |
|                       | : LogPow = logarithm of the octanol/water partition coefficient   |
|                       | : MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) |
| : UN = United Nations |   |

**References** : Not available.

☑ Indicates information that has changed from previously issued version.

### Notice to reader

## 16. Other information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.



# SAFETY DATA SHEET

Issuing Date 05-Jan-2015

Revision Date 02-Jun-2020

Revision Number 2

NGHS - English

## 1. IDENTIFICATION

### Product identifier

**Product Name** Clorox Commercial Solutions® Clorox® Disinfecting Wipes - Fresh Scent

### Other means of identification

**EPA Pesticide registration number** 67619-31

### Recommended use of the chemical and restrictions on use

**Recommended Use** Wipes, Disinfecting  
**Uses advised against** No information available

### Details of the supplier of the safety data sheet

**Supplier Identification** Clorox Professional Products Company

**Address** 1221 Broadway  
Oakland, CA 94612  
USA

**Telephone** 1-510-271-7000

### Emergency telephone number

**Emergency Telephone Number** For Medical Emergencies call: 1-800-446-1014. Transportation Emergencies, call Chemtrec: 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

### Classification

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS).

**Appearance** Clear White

**Physical state** Pre-Moistened Tow elette  
(no free liquids)

**Odor** Fruity Apple Floral

### GHS Label elements, including precautionary statements

#### **Hazard statements**

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS).

#### **Precautionary Statements - Prevention**

Not applicable

#### **Precautionary Statements - Response**

Not applicable

#### **Precautionary Statements - Storage**

Not applicable

**Precautionary Statements - Disposal**

Not applicable

**Other information**

Not applicable.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

The product contains no substances which at their given concentration, are considered to be hazardous to health.

**4. FIRST AID MEASURES**

**First aid measures**

|                     |  |
|---------------------|--|
| <b>Inhalation</b>   | Remove to fresh air.   |
| <b>Eye contact</b>  | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician. |
| <b>Skin contact</b> | Wash skin with soap and water.   |
| <b>Ingestion</b>    | Clean mouth with water and drink afterwards plenty of water.   |

**Most important symptoms and effects, both acute and delayed**

**Symptoms** No information available.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

**5. FIRE-FIGHTING MEASURES**

|   |  |
|---|--|
| <b>Suitable Extinguishing Media</b>                   | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.                            |
| <b>Large Fire</b>                                     | CAUTION: Use of water spray when fighting fire may be inefficient.   |
| <b>Unsuitable extinguishing media</b>                 | Do not scatter spilled material with high pressure water streams.  |
| <b>Specific hazards arising from the chemical</b>     | No information available.  |
| <b>Hazardous Combustion Products</b>                  | Carbon oxides.   |
| <b>Explosion Data</b>                                 |  |
| <b>Sensitivity to Mechanical Impact</b>               | None.  |
| <b>Sensitivity to Static Discharge</b>                | None.  |
| <b>Special protective equipment for fire-fighters</b> | Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. |



## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Ensure adequate ventilation.

### Environmental precautions

**Environmental precautions** See Section 12 for additional Ecological Information.

### Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible products** None known based on information supplied.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

**Exposure Limits** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

### Appropriate engineering controls

**Engineering controls** None under normal use conditions.

### Individual protection measures, such as personal protective equipment

**Eye/face protection** No special protective equipment required.

**Skin and body protection** No special protective equipment required.

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Information on basic physical and chemical properties**

|                       |  |
|-----------------------|--|
| <b>Physical state</b> | Pre-Moistened Tow elette (no free liquids) |
| <b>Appearance</b>     | Clear White                                |
| <b>Odor</b>           | Fruity Apple Floral                        |
| <b>Color</b>          | No information available                   |
| <b>Odor Threshold</b> | No information available                   |

| <b><u>Property</u></b>                         | <b><u>Values</u></b> | <b><u>Remarks Method</u></b> |
|--|----------------------|------------------------------|
| <b>pH</b>                                      | 6 - 7.5 (liquid)     | None know n                  |
| <b>Melting / freezing point</b>                | No data available    | None know n                  |
| <b>Boiling point / boiling range</b>           | No data available    | None know n                  |
| <b>Flash Point</b>                             | No data available    | None know n                  |
| <b>Evaporation Rate</b>                        | No data available    | None know n                  |
| <b>Flam mability (solid, gas)</b>              | No data available    | None know n                  |
| <b>Flam mability Lim it in Air</b>             |                      |                              |
| <b>Upper flam mability lim it</b>              | No data available    |                              |
| <b>Low er flam mability lim it</b>             | No data available    |                              |
| <b>Vapor pressure</b>                          | No data available    | None know n                  |
| <b>Vapor density</b>                           | No data available    | None know n                  |
| <b>Relative density</b>                        | ~1.0 (liquid)        | None know n                  |
| <b>Water Solubility</b>                        | Completely soluble   | None know n                  |
| <b>Solubility(ies)</b>                         | No data available    | None know n                  |
| <b>Partition coefficient: n-octanol/w ater</b> | 0                    | None know n                  |
| <b>Autoignition tem perature</b>               | No data available    | None know n                  |
| <b>Decomposition tem perature</b>              | No data available    | None know n                  |
| <b>Kinematic viscosity</b>                     | No data available    | None know n                  |
| <b>Dynamic viscosity</b>                       | No data available    | None know n                  |

**Other Information**

|                                   |                          |
|-----------------------------------|--------------------------|
| <b>Explosive properties</b>       | No information available |
| <b>Oxidizing properties</b>       | No information available |
| <b>Softening Point</b>            | No information available |
| <b>Molecular Weight</b>           | No information available |
| <b>VOC Content (%)</b>            | No information available |
| <b>Liquid Density</b>             | No information available |
| <b>Bulk Density</b>               | No information available |
| <b>Particle Size</b>              | No information available |
| <b>Particle Size Distribution</b> | No data available        |

**10. STABILITY AND REACTIVITY**

|   |  |
|---|--|
| <b>Reactivity</b>                         | No information available.                  |
| <b>Chemical stability</b>                 | Stable under normal conditions.            |
| <b>Possibility of Hazardous Reactions</b> | None under normal processing.              |
| <b>Conditions to avoid</b>                | None know n based on information supplied. |
| <b>Incom patible materials</b>            | None know n based on information supplied. |
| <b>Hazardous Decomposition Products</b>   | None know n.                               |

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

|              |  |
|--------------|--|
| Inhalation   | Inhalation of vapors in high concentration may cause irritation of respiratory system. |
| Eye contact  | May cause slight irritation.   |
| Skin contact | None known.  |
| Ingestion    | Ingestion may cause irritation to mucous membranes.                                    |

### Information on toxicological effects

Symptoms No information available.

### Numerical measures of toxicity

Acute Toxicity No information available

Unknown acute toxicity No information available

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

|                                   |                           |
|-----------------------------------|---------------------------|
| Skin corrosion/irritation         | No information available. |
| Serious eye damage/eye irritation | No information available. |
| Respiratory or skin sensitization | No information available. |
| Germ cell mutagenicity            | No information available. |
| Carcinogenicity                   | No information available. |
| Reproductive toxicity             | No information available. |
| STOT - single exposure            | No information available. |
| STOT - repeated exposure          | No information available. |
| Aspiration hazard                 | No information available. |

## 12. ECOLOGICAL INFORMATION

|                               |   |
|-------------------------------|---|
| Ecotoxicity                   | The environmental impact of this product has not been fully investigated. |
| Persistence and Degradability | No information available.   |
| Bioaccumulation               | No information available.   |
| Mobility                      | No information available.   |
| Other adverse effects         | No information available.   |

### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

|  |   |
|--|---|
| <b>Waste from residues/unused products</b> | Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation. |
| <b>Contaminated packaging</b>              | Do not reuse empty containers.  |

### 14. TRANSPORT INFORMATION

|                    |               |
|--------------------|---------------|
| <b><u>DOT</u></b>  | Not regulated |
| <b><u>TDG</u></b>  | Not regulated |
| <b><u>ICAO</u></b> | Not regulated |
| <b><u>IATA</u></b> | Not regulated |
| <b><u>IMDG</u></b> | Not regulated |

### 15. REGULATORY INFORMATION

#### Safety, health and environmental regulations/legislation specific for the substance or mixture

#### International Regulations

|   |                |
|---|----------------|
| <b>Ozone-depleting substances (ODS)</b> | Not applicable |
| <b>Persistent Organic Pollutants</b>    | Not applicable |
| <b>Export Notification requirements</b> | Not applicable |

#### International Inventories

|                     |   |
|---------------------|---|
| <b>TSCA</b>         | Contact supplier for inventory compliance status  |
| <b>DSL/NDSL</b>     | Contact supplier for inventory compliance status  |
| <b>ENECS/ELINCS</b> | Contact supplier for inventory compliance status. |
| <b>ENCS</b>         | Contact supplier for inventory compliance status. |
| <b>KECL</b>         | Contact supplier for inventory compliance status. |
| <b>PICCS</b>        | Contact supplier for inventory compliance status. |
| <b>AICS</b>         | Contact supplier for inventory compliance status. |

#### Legend

|                     |  |
|---------------------|--|
| <b>TSCA</b>         | - United States Toxic Substances Control Act Section 8(b) Inventory                                |
| <b>DSL/NDSL</b>     | - Canadian Domestic Substances List/Non-Domestic Substances List                                   |
| <b>ENECS/ELINCS</b> | - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances |
| <b>ENCS</b>         | - Japan Existing and New Chemical Substances   |
| <b>KECL</b>         | - Korean Existing and Evaluated Chemical Substances  |
| <b>PICCS</b>        | - Philippines Inventory of Chemicals and Chemical Substances                                       |
| <b>AICS</b>         | - Australian Inventory of Chemical Substances  |

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**US Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product may contain a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

|  |    |
|--|----|
| <b>Acute Health Hazard</b>               | No |
| <b>Chronic Health Hazard</b>             | No |
| <b>Fire Hazard</b>                       | No |
| <b>Sudden release of pressure hazard</b> | No |
| <b>Reactive Hazard</b>                   | No |

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**US State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

This product does not contain any substances above threshold limits that are regulated by state right-to-know.

**US EPA Label Information**

**EPA Pesticide Registration No.** 67619-31

**EPA Statement**

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

**EPA Pesticide label**

**CAUTION:** Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling. Wear gloves for prolonged or frequent use.

**16. OTHER INFORMATION**

|             |                  |                |                    |                                    |
|-------------|------------------|----------------|--------------------|------------------------------------|
| <u>NFPA</u> | Health hazards 0 | Flammability 0 | Instability 0      | Physical and Chemical Properties - |
| <u>HMIS</u> | Health hazards 0 | Flammability 0 | Physical hazards 0 | Personal Protection X              |

Prepared By Product Stewardship  
23 British American Blvd.  
Latham, NY 12110  
1-800-572-6501

Issuing Date 05-Jan-2015

Revision Date 02-Jun-2020

Revision Note No information available

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of Safety Data Sheet**



# SAFETY DATA SHEET

Issuing Date 05-Jan-2015

Revision Date 02-Jun-2020

Revision Number 2

NGHS - English

## 1. IDENTIFICATION

### Product identifier

**Product Name** Clorox Commercial Solutions® Clorox® Disinfecting Wipes - Fresh Scent

### Other means of identification

**EPA Pesticide registration number** 67619-31

### Recommended use of the chemical and restrictions on use

**Recommended Use** Wipes, Disinfecting  
**Uses advised against** No information available

### Details of the supplier of the safety data sheet

**Supplier Identification** Clorox Professional Products Company

**Address** 1221 Broadway  
Oakland, CA 94612  
USA

**Telephone** 1-510-271-7000

### Emergency telephone number

**Emergency Telephone Number** For Medical Emergencies call: 1-800-446-1014. Transportation Emergencies, call Chemtrec: 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

### Classification

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS).

**Appearance** Clear White

**Physical state** Pre-Moistened Tow elette  
(no free liquids)

**Odor** Fruity Apple Floral

### GHS Label elements, including precautionary statements

#### **Hazard statements**

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS).

#### **Precautionary Statements - Prevention**

Not applicable

#### **Precautionary Statements - Response**

Not applicable

#### **Precautionary Statements - Storage**

Not applicable

**Precautionary Statements - Disposal**

Not applicable

**Other information**

Not applicable.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

The product contains no substances which at their given concentration, are considered to be hazardous to health.

**4. FIRST AID MEASURES**

**First aid measures**

|                     |  |
|---------------------|--|
| <b>Inhalation</b>   | Remove to fresh air.   |
| <b>Eye contact</b>  | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician. |
| <b>Skin contact</b> | Wash skin with soap and water.   |
| <b>Ingestion</b>    | Clean mouth with water and drink afterwards plenty of water.   |

**Most important symptoms and effects, both acute and delayed**

**Symptoms** No information available.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

**5. FIRE-FIGHTING MEASURES**

|   |  |
|---|--|
| <b>Suitable Extinguishing Media</b>                   | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.                            |
| <b>Large Fire</b>                                     | CAUTION: Use of water spray when fighting fire may be inefficient.   |
| <b>Unsuitable extinguishing media</b>                 | Do not scatter spilled material with high pressure water streams.  |
| <b>Specific hazards arising from the chemical</b>     | No information available.  |
| <b>Hazardous Combustion Products</b>                  | Carbon oxides.   |
| <b>Explosion Data</b>                                 |  |
| <b>Sensitivity to Mechanical Impact</b>               | None.  |
| <b>Sensitivity to Static Discharge</b>                | None.  |
| <b>Special protective equipment for fire-fighters</b> | Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. |



## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Ensure adequate ventilation.

### Environmental precautions

**Environmental precautions** See Section 12 for additional Ecological Information.

### Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible products** None known based on information supplied.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

**Exposure Limits** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

### Appropriate engineering controls

**Engineering controls** None under normal use conditions.

### Individual protection measures, such as personal protective equipment

**Eye/face protection** No special protective equipment required.

**Skin and body protection** No special protective equipment required.

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

|                       |  |
|-----------------------|--|
| <b>Physical state</b> | Pre-Moistened Tow elette (no free liquids) |
| <b>Appearance</b>     | Clear White                                |
| <b>Odor</b>           | Fruity Apple Floral                        |
| <b>Color</b>          | No information available                   |
| <b>Odor Threshold</b> | No information available                   |

| Property                                       | Values             | Remarks Method |
|--|--------------------|----------------|
| <b>pH</b>                                      | 6 - 7.5 (liquid)   | None know n    |
| <b>Melting / freezing point</b>                | No data available  | None know n    |
| <b>Boiling point / boiling range</b>           | No data available  | None know n    |
| <b>Flash Point</b>                             | No data available  | None know n    |
| <b>Evaporation Rate</b>                        | No data available  | None know n    |
| <b>Flam mability (solid, gas)</b>              | No data available  | None know n    |
| <b>Flam mability Lim it in Air</b>             |                    |                |
| <b>Upper flam mability lim it</b>              | No data available  |                |
| <b>Low er flam mability lim it</b>             | No data available  |                |
| <b>Vapor pressure</b>                          | No data available  | None know n    |
| <b>Vapor density</b>                           | No data available  | None know n    |
| <b>Relative density</b>                        | ~1.0 (liquid)      | None know n    |
| <b>Water Solubility</b>                        | Completely soluble | None know n    |
| <b>Solubility(ies)</b>                         | No data available  | None know n    |
| <b>Partition coefficient: n-octanol/w ater</b> | 0                  | None know n    |
| <b>Autoignition tem perature</b>               | No data available  | None know n    |
| <b>Decomposition tem perature</b>              | No data available  | None know n    |
| <b>Kinematic viscosity</b>                     | No data available  | None know n    |
| <b>Dynamic viscosity</b>                       | No data available  | None know n    |

### Other Information

|                                   |                          |
|-----------------------------------|--------------------------|
| <b>Explosive properties</b>       | No information available |
| <b>Oxidizing properties</b>       | No information available |
| <b>Softening Point</b>            | No information available |
| <b>Molecular Weight</b>           | No information available |
| <b>VOC Content (%)</b>            | No information available |
| <b>Liquid Density</b>             | No information available |
| <b>Bulk Density</b>               | No information available |
| <b>Particle Size</b>              | No information available |
| <b>Particle Size Distribution</b> | No data available        |

## 10. STABILITY AND REACTIVITY

|   |  |
|---|--|
| <b>Reactivity</b>                         | No information available.                  |
| <b>Chemical stability</b>                 | Stable under normal conditions.            |
| <b>Possibility of Hazardous Reactions</b> | None under normal processing.              |
| <b>Conditions to avoid</b>                | None know n based on information supplied. |
| <b>Incom patible materials</b>            | None know n based on information supplied. |
| <b>Hazardous Decomposition Products</b>   | None know n.                               |

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

|              |  |
|--------------|--|
| Inhalation   | Inhalation of vapors in high concentration may cause irritation of respiratory system. |
| Eye contact  | May cause slight irritation.   |
| Skin contact | None known.  |
| Ingestion    | Ingestion may cause irritation to mucous membranes.                                    |

### Information on toxicological effects

Symptoms No information available.

### Numerical measures of toxicity

Acute Toxicity No information available

Unknown acute toxicity No information available

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

|                                   |                           |
|-----------------------------------|---------------------------|
| Skin corrosion/irritation         | No information available. |
| Serious eye damage/eye irritation | No information available. |
| Respiratory or skin sensitization | No information available. |
| Germ cell mutagenicity            | No information available. |
| Carcinogenicity                   | No information available. |
| Reproductive toxicity             | No information available. |
| STOT - single exposure            | No information available. |
| STOT - repeated exposure          | No information available. |
| Aspiration hazard                 | No information available. |

## 12. ECOLOGICAL INFORMATION

|                               |   |
|-------------------------------|---|
| Ecotoxicity                   | The environmental impact of this product has not been fully investigated. |
| Persistence and Degradability | No information available.   |
| Bioaccumulation               | No information available.   |
| Mobility                      | No information available.   |
| Other adverse effects         | No information available.   |

### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

|  |   |
|--|---|
| <b>Waste from residues/unused products</b> | Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation. |
| <b>Contaminated packaging</b>              | Do not reuse empty containers.  |

### 14. TRANSPORT INFORMATION

|                    |               |
|--------------------|---------------|
| <b><u>DOT</u></b>  | Not regulated |
| <b><u>TDG</u></b>  | Not regulated |
| <b><u>ICAO</u></b> | Not regulated |
| <b><u>IATA</u></b> | Not regulated |
| <b><u>IMDG</u></b> | Not regulated |

### 15. REGULATORY INFORMATION

#### Safety, health and environmental regulations/legislation specific for the substance or mixture

#### International Regulations

|   |                |
|---|----------------|
| <b>Ozone-depleting substances (ODS)</b> | Not applicable |
| <b>Persistent Organic Pollutants</b>    | Not applicable |
| <b>Export Notification requirements</b> | Not applicable |

#### International Inventories

|                     |   |
|---------------------|---|
| <b>TSCA</b>         | Contact supplier for inventory compliance status  |
| <b>DSL/NDSL</b>     | Contact supplier for inventory compliance status  |
| <b>ENECS/ELINCS</b> | Contact supplier for inventory compliance status. |
| <b>ENCS</b>         | Contact supplier for inventory compliance status. |
| <b>KECL</b>         | Contact supplier for inventory compliance status. |
| <b>PICCS</b>        | Contact supplier for inventory compliance status. |
| <b>AICS</b>         | Contact supplier for inventory compliance status. |

#### Legend

|                     |  |
|---------------------|--|
| <b>TSCA</b>         | - United States Toxic Substances Control Act Section 8(b) Inventory                                |
| <b>DSL/NDSL</b>     | - Canadian Domestic Substances List/Non-Domestic Substances List                                   |
| <b>ENECS/ELINCS</b> | - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances |
| <b>ENCS</b>         | - Japan Existing and New Chemical Substances   |
| <b>KECL</b>         | - Korean Existing and Evaluated Chemical Substances  |
| <b>PICCS</b>        | - Philippines Inventory of Chemicals and Chemical Substances                                       |
| <b>AICS</b>         | - Australian Inventory of Chemical Substances  |

---

**US Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product may contain a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

|  |    |
|--|----|
| <b>Acute Health Hazard</b>               | No |
| <b>Chronic Health Hazard</b>             | No |
| <b>Fire Hazard</b>                       | No |
| <b>Sudden release of pressure hazard</b> | No |
| <b>Reactive Hazard</b>                   | No |

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**US State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

This product does not contain any substances above threshold limits that are regulated by state right-to-know.

**US EPA Label Information**

**EPA Pesticide Registration No.** 67619-31

**EPA Statement**

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

**EPA Pesticide label**

**CAUTION:** Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling. Wear gloves for prolonged or frequent use.

**16. OTHER INFORMATION**

|             |                  |                |                    |                                    |
|-------------|------------------|----------------|--------------------|------------------------------------|
| <u>NFPA</u> | Health hazards 0 | Flammability 0 | Instability 0      | Physical and Chemical Properties - |
| <u>HMIS</u> | Health hazards 0 | Flammability 0 | Physical hazards 0 | Personal Protection X              |

Prepared By Product Stewardship  
23 British American Blvd.  
Latham, NY 12110  
1-800-572-6501

Issuing Date 05-Jan-2015

Revision Date 02-Jun-2020

Revision Note No information available

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of Safety Data Sheet**



## Safety Data Sheet

This safety data sheet complies with the requirements of: 2012 OSHA Hazard Communication Standard ( 29CFR 1910.1200)

**Product name** FORAY® ABC Industrial Multi-Purpose Dry Chemical Stored Pressure Extinguisher

### 1. Identification

#### 1.1. Product Identifier

**Product name** FORAY® ABC Industrial Multi-Purpose Dry Chemical Stored Pressure Extinguisher

#### 1.2. Other means of identification

**Product code** 436500  
**UN/ID no** UN1044  
**Synonyms** None  
**Chemical Family** No information available

#### 1.3. Recommended use of the chemical and restrictions on use

**Recommended use** No information available.  
**Uses advised against** Consumer use.

#### 1.4. Details of the Supplier of the Safety Data Sheet

**Company Name** Tyco Fire Protection Products  
One Stanton Street  
Marinette, WI 54143-2542  
Telephone: 715-735-7411  
**Contact point** Product Stewardship at 1-715-735-7411  
**E-mail address** psra@tycofp.com

#### 1.5. Emergency Telephone Number

**Emergency telephone** CHEMTREC 001-800-424-9300 or 001-703-527-3887

### 2. Hazards Identification

#### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Simple asphyxiants  
Gases Under Pressure - Compressed Gas

#### 2.2. Label Elements

##### Signal Word

WARNING

##### Hazard Statements

May displace oxygen and cause rapid suffocation  
Contains gas under pressure; may explode if heated





Product code 436500

/ **Product name** FORAY® ABC /  
Industrial Multi-Purpose Dry  
Chemical Stored Pressure  
Extinguisher

**PAGE** 2 / 10

## Precautionary Statements

### Storage

Protect from sunlight. Store in a well-ventilated place.

### 2.3. Hazards Not Otherwise Classified (HNOC)

Not Applicable.

### 2.4. Other Information

Unknown Acute Toxicity 99.13456% of the mixture consists of ingredient(s) of unknown toxicity

## 3. Composition/information on Ingredients

### 3.1. Mixture

The following component(s) in this product are considered hazardous under applicable OSHA(USA)

| Chemical name | CAS No.    | weight-% |
|---------------|------------|----------|
| Attapulгите   | 12174-11-7 | 1 - 5    |
| Mica          | 12001-26-2 | 1 - 5    |

## 4. First aid measures

### 4.1. Description of first aid measures

#### General Advice

Call 911 or emergency medical service. Remove and isolate contaminated clothing and shoes.

#### Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists: Get medical advice/attention.

#### Skin contact

In case of contact with liquefied gas, thaw frosted parts with lukewarm water.

#### Inhalation

Move victim to fresh air. If breathing is irregular or stopped, administer artificial respiration. Administer oxygen if breathing is difficult.

#### Ingestion

If swallowed: Call a POISON CENTER or doctor/physician if you feel unwell.

#### Self-Protection of the First Aider

Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

### 4.2. Most Important Symptoms and Effects, Both Acute and Delayed

#### Symptoms

None known.

### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

#### Note to physicians

Keep victim warm and quiet.

## 5. Fire-fighting measures





Product code 436500

/ **Product name** FORAY® ABC /  
Industrial Multi-Purpose Dry  
Chemical Stored Pressure  
Extinguisher

**PAGE** 3 / 10

#### **5.1. Suitable Extinguishing Media**

Use extinguishing agent suitable for type of surrounding fire. Dry chemical or CO2. Water spray, fog or regular foam.

#### **5.2. Unsuitable Extinguishing Media**

None.

#### **5.3. Specific Hazards Arising from the Chemical**

Ruptured cylinders may rocket. Some may burn but none ignite readily.

#### **5.4. Explosion Data**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

#### **5.5. Protective Equipment and Precautions for Firefighters**

Move containers from fire area if you can do it without risk. Damaged cylinders should be handled only by specialists.

### **6. Accidental release measures**

#### **6.1. Personal precautions, protective equipment and emergency procedures**

**Personal Precautions** Do not touch or walk through spilled material. Stop leak if you can do it without risk.

**OTHER INFORMATION** Ventilate the area.

**For emergency responders** Use personal protection recommended in Section 8.

#### **6.2. Environmental Precautions**

**Environmental Precautions** Use water spray to reduce vapors or divert vapor cloud drift. Avoid allowing water runoff to contact spilled material. Prevent entry into waterways, sewers, basements or confined areas. See Section 12 for additional Ecological Information.

#### **6.3. Methods and material for containment and cleaning up**

**Methods for Containment** If possible, turn leaking containers so that gas escapes rather than liquid. Allow substance to evaporate.

**Methods for Cleaning Up** Use personal protective equipment as required. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Take up mechanically, placing in appropriate containers for disposal. Avoid creating dust. Clean contaminated surface thoroughly.

### **7. Handling and Storage**

#### **7.1. Precautions for Safe Handling**

**Advice on safe handling** Avoid generation of dust. Do not breathe dust/fume/gas/mist/vapors/spray. Use with local exhaust ventilation. Use personal protective equipment as required. Wash thoroughly after handling.



Product code 436500

/ Product name FORAY® ABC /  
Industrial Multi-Purpose Dry  
Chemical Stored Pressure  
Extinguisher

PAGE 4 / 10

Do not drag, slide or roll extinguishers. Do not drop extinguishers or permit them to strike against each other.

**7.2. Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Store in a well-ventilated place. Keep cool. Keep container tightly closed. Guard against dust accumulation of material. Use care in handling/storage. Pressurized extinguishers should be properly stored and secured to prevent falling or being knocked over.

**Incompatible Materials** Strong acids.

**8. Exposure Controls/Personal Protection**

**8.1. Control Parameters**

**Exposure guidelines**

| Chemical name            | ACGIH TLV  | OSHA PEL                             | NIOSH IDLH   | Mexico OEL                        |
|--------------------------|--|--------------------------------------|--|-----------------------------------|
| Attapulgit<br>12174-11-7 | TWA: 1 mg/m <sup>3</sup> respirable particulate matter | -                                    | -  | -                                 |
| Mica<br>12001-26-2       | TWA: 3 mg/m <sup>3</sup> respirable particulate matter | TWA: 20 mppcf <1% Crystalline silica | IDLH: 1500 mg/m <sup>3</sup><br>TWA: 3 mg/m <sup>3</sup> containing <1% Quartz respirable dust | TWA 3 mg/m <sup>3</sup> (VLE-PPT) |

ACGIH (American Conference of Governmental Industrial Hygienists) OSHA (Occupational Safety and Health Administration of the US Department of Labor): NIOSH IDLH Immediately Dangerous to Life or Health

**8.2. Appropriate Engineering Controls**

**Engineering controls** Ensure adequate ventilation, especially in confined areas.

**8.3. Individual protection measures, such as personal protective equipment**

**Eye/Face Protection** Avoid contact with eyes. Tight sealing safety goggles.

**Skin and Body Protection** No special precautions are needed in handling this material.

**Respiratory Protection** In case of insufficient ventilation, wear suitable respiratory equipment.

**Ventilation** Use local exhaust or general dilution ventilation to control exposure with applicable limits

**8.4. General hygiene considerations**

Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice.

**9. Physical and Chemical Properties**

**9.1. Information on basic physical and chemical properties**

|                       |                   |              |        |
|-----------------------|-------------------|--------------|--------|
| <b>Physical State</b> | powder            | <b>Color</b> | Yellow |
| <b>Odor</b>           | odorless          |              |        |
| <b>Odor Threshold</b> | No data available |              |        |



Product code 436500

/ Product name FORAY® ABC /  
Industrial Multi-Purpose Dry  
Chemical Stored Pressure  
Extinguisher

PAGE 5 / 10

| <u>Property</u>               | <u>Values</u>     | <u>Remarks • Method</u> |
|-------------------------------|-------------------|-------------------------|
| pH                            | No data available |                         |
| Melting point/freezing point  | No data available |                         |
| Boiling point / boiling range | No data available |                         |
| Flash Point                   | No data available |                         |
| Evaporation Rate              | No data available |                         |
| Flammability (solid, gas)     | No data available |                         |
| Flammability limit in air     |                   |                         |
| Upper flammability limit:     | No data available |                         |
| Lower flammability limit:     | No data available |                         |
| Vapor Pressure                | No data available |                         |
| Vapor Density                 | No data available |                         |
| Specific gravity              | No data available |                         |
| Water Solubility              | No data available |                         |
| Solubility in Other Solvents  | No data available |                         |
| Partition coefficient         | No data available |                         |
| Autoignition Temperature      | No data available |                         |
| Decomposition Temperature     | No data available |                         |
| Kinematic viscosity           | No data available |                         |

## **10. Stability and Reactivity**

### **10.1. Chemical Stability**

Stable under recommended storage conditions.

### **10.2. Reactivity**

No data available

### **10.3. Possibility of hazardous reactions**

Hazardous polymerization does not occur.

**Hazardous Polymerization**      Hazardous polymerization does not occur.

### **10.4. Conditions to Avoid**

None known based on information supplied.

### **10.5. Incompatible Materials**

Strong acids.

### **10.6. Hazardous decomposition products**

Carbon oxides. Nitrogen oxides (NOx).

## **11. Toxicological Information**

### **11.1. Information on Likely Routes of Exposure**

Product information



Product code 436500

/ Product name FORAY® ABC /  
Industrial Multi-Purpose Dry  
Chemical Stored Pressure  
Extinguisher

PAGE 6 / 10

**Inhalation** May cause irritation of respiratory tract.

**Eye Contact** May cause irritation.

**Skin contact** May cause irritation.

**Ingestion** Ingestion may cause irritation to mucous membranes.

Acute Toxicity

11.2. Information on Toxicological Effects

**Symptoms** No information available.

11.3. Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin Corrosion/Irritation** No information available.

**Serious eye damage/eye irritation** No information available.

**Sensitization** No information available.

**Germ Cell Mutagenicity** No information available.

**Carcinogenicity** Attapulгите (palygorskite fibers) is a hydrated magnesium aluminum silicate. Long palygorskite (attapulгите) fibers (>5 micrometers) are possibly carcinogenic to humans (Group 2B). Short palygorskite (attapulгите) fibers (<5 micrometers) cannot be classified as to their carcinogenicity to humans (Group 3). The attapulгите present in this product contains fibers 0.5-2.5 um range, so would be considered by IARC as Group 3.

| Chemical name             | ACGIH | IARC    | NTP | OSHA |
|---------------------------|-------|---------|-----|------|
| Attapulгите<br>12174-11-7 | -     | Group 3 | -   | X    |

*ACGIH (American Conference of Governmental Industrial Hygienists)*  
*A2 - Suspected Human Carcinogen*  
*IARC (International Agency for Research on Cancer)*  
*Not classifiable as a human carcinogen*  
*Group 1 - Carcinogenic to Humans*  
*NTP (National Toxicology Program)*  
*Known - Known Carcinogen*  
*OSHA (Occupational Safety and Health Administration of the US Department of Labor)*  
*X - Present*

**Reproductive Toxicity** No information available.

**STOT - Single Exposure** No information available.

**STOT - Repeated Exposure** No information available.

**Target organ effects** Respiratory System.

**Aspiration Hazard** No information available.

11.4. Numerical Measures of Toxicity - Product information

The following values are calculated based on chapter 3.1 of the GHS document  
ATEmix (dermal) 8144 mg/kg

**12. Ecological Information**

12.1. Ecotoxicity

Not classified.

0.02% of the mixture consists of components(s) of unknown hazards to the aquatic environment



Product code 436500

/ Product name FORAY® ABC /  
Industrial Multi-Purpose Dry  
Chemical Stored Pressure  
Extinguisher

PAGE 7 / 10

| Chemical name                                   | Algae/aquatic plants                                     | Fish   | Crustacea   |
|---|--|--|---|
| Ammonium sulfate, technical<br>7783-20-2        | -  | LC50 96 h 460 - 1000 mg/L<br>Leuciscus idus static; LC50 96 h<br>123 - 128 mg/L Poecilia reticulata<br>semi-static; LC50 96 h = 126 mg/L<br>Poecilia reticulata; LC50 96 h > 100<br>mg/L Pimephales promelas; LC50<br>96 h 32.2 - 41.9 mg/L<br>Oncorhynchus mykiss flow-through;<br>LC50 96 h 5.2 - 8.2 mg/L<br>Oncorhynchus mykiss static; LC50<br>96 h = 18 mg/L Cyprinus carpio;<br>LC50 96 h = 480 mg/L Brachydanio<br>rerio flow-through; LC50 96 h = 420<br>mg/L Brachydanio rerio semi-static;<br>LC50 96 h = 250 mg/L Brachydanio<br>rerio | LC50 48 h = 14 mg/L Daphnia<br>magna; EC50 24 h = 423 mg/L<br>Daphnia magna |
| Silicic Acid/silica gel, Amorphous<br>7631-86-9 | EC50 (72h) = 440 mg/L<br>Pseudokirchneriella subcapitata | LC50 (96h) static = 5000 mg/L<br>Brachydanio rerio   | EC50 (48h) = 7600 mg/L<br>Ceriodaphnia dubia                                |

#### 12.2. Persistence and Degradability

No information available.

#### 12.3. Bioaccumulation

No information available.

#### 12.4. Other Adverse Effects

No information available

### **13. Disposal Considerations**

#### 13.1. Waste Treatment Methods

##### **Disposal of wastes**

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

##### **Contaminated Packaging**

Do not reuse container. Pressurized container: Do not pierce or burn, even after use.

### **14. Transport Information**

#### DOT

|                      |                                 |
|----------------------|---------------------------------|
| UN/ID no             | UN1044                          |
| Description          | UN1044, Fire extinguishers, 2.2 |
| Proper Shipping Name | Fire extinguishers              |
| Hazard class         | 2.2                             |
| Special Provisions   | 18, 110                         |



Product code 436500

/ Product name FORAY® ABC /  
Industrial Multi-Purpose Dry  
Chemical Stored Pressure  
Extinguisher

PAGE 8 / 10

**Emergency Response Guide Number** 126

**TDG**

**UN/ID no** UN1044  
**Description** UN1044, Fire extinguishers, 2.2  
**Proper Shipping Name** Fire extinguishers  
**Hazard class** 2.2

**MEX**

**UN/ID no** UN1044  
**Description** UN1044, Fire extinguishers, 2.2  
**Proper Shipping Name** Fire extinguishers  
**Hazard class** 2.2

**ICAO (air)**

**UN/ID no** UN1044  
**Description** UN1044, Fire extinguishers, 2.2  
**Proper Shipping Name** Fire extinguishers  
**Hazard class** 2.2  
**Special Provisions** A19

**IATA**

**UN/ID no** UN1044  
**Description** UN1044, Fire extinguishers, 2.2  
**Proper Shipping Name** Fire extinguishers  
**Hazard class** 2.2  
**ERG Code** 2L  
**Special Provisions** A19

**IMDG**

**UN/ID no** UN1044  
**Description** UN1044, Fire extinguishers, 2.2  
**Proper Shipping Name** Fire extinguishers  
**Hazard class** 2.2  
**EmS-No** F-C, S-V  
**Special Provisions** 225

**15. Regulatory Information**

**15.1. International Inventories**

**TSCA** Complies  
**DSL/NDSL** Complies  
**ENCS** Does not comply  
**IECSC** Complies  
**KECL** Does not comply  
**PICCS** Complies  
**AICS** Complies

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances



Product code 436500

Product name FORAY® ABC /  
Industrial Multi-Purpose Dry  
Chemical Stored Pressure  
Extinguisher

PAGE 9 / 10

KECL - Korean Existing and Evaluated Chemical Substances  
PICCS - Philippines Inventory of Chemicals and Chemical Substances  
AICS - Australian Inventory of Chemical Substances

### 15.2. US Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

| Chemical name                             | SARA 313 - Threshold Values % |
|---|-------------------------------|
| Ammonium dihydrogen phosphate - 7722-76-1 | 1.0                           |
| Ammonium sulfate, technical - 7783-20-2   | 1.0                           |

#### SARA 311/312 Hazard Categories

|                                   |     |
|-----------------------------------|-----|
| Acute Health Hazard               | No  |
| Chronic health hazard             | No  |
| Fire Hazard                       | No  |
| Sudden Release of Pressure Hazard | Yes |
| Reactive Hazard                   | No  |

#### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

### 15.3. US State Regulations

#### California Proposition 65

This product contains the following Proposition 65 chemicals

| Chemical name           | California Proposition 65 |
|-------------------------|---------------------------|
| Attapulgit - 12174-11-7 | Carcinogen                |
| Quartz - 14808-60-7     | Carcinogen                |

#### U.S. State Right-to-Know Regulations

| Chemical name                                   | New Jersey | Massachusetts | Pennsylvania |
|---|------------|---------------|--------------|
| Mica<br>12001-26-2                              | X          | X             | X            |
| Silicic Acid/silica gel, Amorphous<br>7631-86-9 | -          | X             | X            |
| Quartz<br>14808-60-7                            | X          | X             | X            |

### 16. Other information, including date of preparation of the last revision



Product code 436500

/ Product name FORAY® ABC /  
Industrial Multi-Purpose Dry  
Chemical Stored Pressure  
Extinguisher

PAGE 10 / 10

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|             |                  |                |                    |                                    |
|-------------|------------------|----------------|--------------------|------------------------------------|
| <u>NFPA</u> | Health Hazards 0 | Flammability 0 | Instability 0      | Physical and chemical properties - |
| <u>HMIS</u> | Health Hazards 0 | Flammability 0 | Physical Hazards 3 | Personal Protection X              |

Revision date 31-Jul-2017

Revision note No information available.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet





# SAFETY DATA SHEET

Issuing Date January 5, 2015

Revision Date New

Revision Number 0

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product identifier

**Product Name** Formula 409® Antibacterial All-Purpose Cleaner

### Other means of identification

**EPA Registration Number** 5813-73

### Recommended use of the chemical and restrictions on use

**Recommended Use** Multi-purpose spray cleaner and disinfectant

**Uses advised against** No information available

### Details of the supplier of the safety data sheet

#### **Supplier Address**

The Clorox Company  
1221 Broadway  
Oakland, CA 94612

Phone: 1-510-271-7000

### Emergency telephone number

**Emergency Phone Numbers** For Medical Emergencies call: 1-800-446-1014  
For Transportation Emergencies, call Chemtrec: 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

### Classification

This mixture is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

|                           |            |
|---------------------------|------------|
| Skin corrosion/irritation | Category 3 |
|---------------------------|------------|

### GHS Label elements, including precautionary statements

#### Emergency Overview

|   |                                   |                            |  |
|---|-----------------------------------|----------------------------|--|
| <b>Signal word</b>                                      | <b>Warning</b>                    |                            |  |
| <b>Hazard statements</b><br>Causes mild skin irritation | No pictogram required.            |                            |  |
| <b>Appearance</b> Clear, green                          | <b>Physical State</b> Thin liquid | <b>Odor</b> Floral, citrus |  |

### Precautionary Statements - Prevention

None

### Precautionary Statements - Response

If skin irritation occurs: Get medical advice.

### Precautionary Statements - Storage

None

### Precautionary Statements - Disposal

None

### Hazards not otherwise classified (HNOC)

Not applicable

### Unknown Toxicity

0.2% of the mixture consists of ingredient(s) of unknown toxicity

### Other information

Very toxic to aquatic life with long-lasting effects.

### Interactions with Other Chemicals

None known.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name   | CAS-No     | Weight %  | Trade Secret |
|---|------------|-----------|--------------|
| Lauramine oxide   | 1643-20-5  | 0.5 - 1.5 | *            |
| n-Alkyl (40% C12, 50% C14, 10% C16) dimethyl benzyl ammonium chloride | 68424-85-1 | 0.2 - 0.4 | *            |

\* The exact percentage (concentration) of composition has been withheld as a trade secret

---

## 4. FIRST AID MEASURES

### First aid measures

|                       |  |
|-----------------------|--|
| <b>General Advice</b> | Show this safety data sheet to the doctor in attendance.   |
| <b>Eye Contact</b>    | Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.  |
| <b>Skin Contact</b>   | Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.  |
| <b>Inhalation</b>     | Move to fresh air. If breathing is affected, call a doctor.  |
| <b>Ingestion</b>      | Call a poison control center or doctor immediately for treatment advice. Have person sip a glassful of water if able to swallow. DO NOT induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. |

### Most important symptoms and effects, both acute and delayed

**Most Important Symptoms/Effects** Mild irritation of eyes and skin.

### Indication of any immediate medical attention and special treatment needed

**Notes to Physician** Treat symptomatically.

---

## 5. FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### Unsuitable Extinguishing Media

CAUTION: Use of water spray when fighting fire may be inefficient.

### Specific Hazards Arising from the Chemical

No information available

### Explosion Data

**Sensitivity to Mechanical Impact** None

**Sensitivity to Static Discharge** None

### Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

|                             |  |
|-----------------------------|--|
| <b>Personal Precautions</b> | Avoid contact with eyes and skin.                        |
| <b>Other Information</b>    | Refer to protective measures listed in Sections 7 and 8. |

### Environmental precautions

|                                  |  |
|----------------------------------|--|
| <b>Environmental Precautions</b> | See Section 12 for additional ecological Information |
|----------------------------------|--|

### Methods and material for containment and cleaning up

|                                |  |
|--------------------------------|--|
| <b>Methods for Containment</b> | Prevent further leakage or spillage if safe to do so.  |
| <b>Methods for Cleaning Up</b> | Absorb and containerize. Wash residual down to sanitary sewer. Contact the sanitary treatment facility in advance to assure ability to process washed-down material. |

## 7. HANDLING AND STORAGE

### Precautions for safe handling

|                 |  |
|-----------------|--|
| <b>Handling</b> | Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes, skin, and clothing. Do not eat, drink, or smoke when using this product. |
|-----------------|--|

### Conditions for safe storage, including any incompatibilities

|                              |   |
|------------------------------|---|
| <b>Storage</b>               | Keep containers tightly closed in a dry, cool, and well-ventilated place. |
| <b>Incompatible Products</b> | None known.   |

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure Guidelines

| Chemical Name  | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|--|-----------|----------|------------|
| Lauramine oxide<br>1643-20-5   | None      | None     | None       |
| n-Alkyl (40% C12, 50% C14, 10% C16)<br>dimethyl benzyl ammonium chloride<br>68424-85-1 | None      | None     | None       |

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.

### Appropriate engineering controls

|                             |  |
|-----------------------------|--|
| <b>Engineering Measures</b> | Showers<br>Eyewash stations<br>Ventilation systems |
|-----------------------------|--|

**Individual protection measures, such as personal protective equipment**

|                                 |   |
|---------------------------------|---|
| <b>Eye/Face Protection</b>      | If splashes are likely to occur, wear safety glasses with side-shields. None required for consumer use.   |
| <b>Skin and Body Protection</b> | No special protective equipment required.   |
| <b>Respiratory Protection</b>   | If irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations. |
| <b>Hygiene Measures</b>         | Remove and wash contaminated clothing before re-use. Avoid contact with skin, eyes, or clothing. Do not eat, drink, or smoke when using this product.   |

**9. PHYSICAL AND CHEMICAL PROPERTIES****Physical and Chemical Properties**

|                       |             |                       |                          |
|-----------------------|-------------|-----------------------|--------------------------|
| <b>Physical State</b> | Thin liquid | <b>Odor</b>           | Floral, citrus           |
| <b>Appearance</b>     | Clear       | <b>Odor Threshold</b> | No information available |
| <b>Color</b>          | Green       |                       |                          |

| <b>Property</b>                               | <b>Values</b>     | <b>Remarks/ Method</b> |
|---|-------------------|------------------------|
| <b>pH</b>                                     | 9 - 11.5          | None known             |
| <b>Melting/freezing point</b>                 | No data available | None known             |
| <b>Boiling Point/Range</b>                    | No data available | None known             |
| <b>Flash Point</b>                            | No data available | None known             |
| <b>Evaporation rate</b>                       | No data available | None known             |
| <b>Flammability (solid, gas)</b>              | No data available | None known             |
| <b>Flammability Limits in Air</b>             |                   |                        |
| <b>Upper flammability limit</b>               | No data available | None known             |
| <b>Lower flammability limit</b>               | No data available | None known             |
| <b>Vapor pressure</b>                         | No data available | None known             |
| <b>Vapor density</b>                          | No data available | None known             |
| <b>Specific Gravity</b>                       | ~1.0              | None known             |
| <b>Water Solubility</b>                       | Soluble in water. | None known             |
| <b>Solubility in other solvents</b>           | No data available | None known             |
| <b>Partition coefficient: n-octanol/water</b> | No data available | None known             |
| <b>Autoignition temperature</b>               | No data available | None known             |
| <b>Decomposition temperature</b>              | No data available | None known             |
| <b>Kinematic viscosity</b>                    | No data available | None known             |
| <b>Dynamic viscosity</b>                      | No data available | None known             |
| <b>Explosive Properties</b>                   | Not explosive     |                        |
| <b>Oxidizing Properties</b>                   | No data available |                        |

**Other Information**

|                                   |                   |
|-----------------------------------|-------------------|
| <b>Softening Point</b>            | No data available |
| <b>VOC Content (%)</b>            | No data available |
| <b>Particle Size</b>              | No data available |
| <b>Particle Size Distribution</b> | No data available |

## 10. STABILITY AND REACTIVITY

### Reactivity

No data available.

### Chemical stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

### Conditions to avoid

None known.

### Incompatible materials

None known.

### Hazardous Decomposition Products

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

|                     |   |
|---------------------|---|
| <b>Inhalation</b>   | Exposure to vapor or mist may irritate respiratory tract.   |
| <b>Eye Contact</b>  | May cause eye irritation.   |
| <b>Skin Contact</b> | Prolonged contact may cause irritation.   |
| <b>Ingestion</b>    | Ingestion may cause irritation to mucous membranes and gastrointestinal irritation, nausea, vomiting, and diarrhea. |

### Information on toxicological effects

**Symptoms** May cause redness and tearing of the eyes and skin redness.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

|                                 |  |
|---------------------------------|--|
| <b>Sensitization</b>            | No information available.                                    |
| <b>Mutagenic Effects</b>        | No information available.                                    |
| <b>Carcinogenicity</b>          | Contains no ingredient listed as a carcinogen.               |
| <b>Reproductive Toxicity</b>    | No information available                                     |
| <b>STOT - single exposure</b>   | No information available.                                    |
| <b>STOT - repeated exposure</b> | No information available.                                    |
| <b>Chronic Toxicity</b>         | No known effect.   |
| <b>Target Organ Effects</b>     | Respiratory system, eyes, skin, gastrointestinal tract (GI). |
| <b>Aspiration Hazard</b>        | No information available.                                    |

### Numerical measures of toxicity Product Information

The following values are calculated based on chapter 3.1 of the GHS document      Not applicable.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Very toxic to aquatic life with long lasting effects.

### Persistence and Degradability

No information available.

### Bioaccumulation

No information available.

### Other Adverse Effects

No information available.

## 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Dispose of in accordance with all applicable federal, state, and local regulations.

### Contaminated Packaging

Do not reuse empty containers. Dispose of in accordance with all applicable federal, state, and local regulations.

## 14. TRANSPORT INFORMATION

|                        |               |
|------------------------|---------------|
| <b><u>DOT</u></b>      | Not regulated |
| <b><u>TDG</u></b>      | Not regulated |
| <b><u>ICAO</u></b>     | Not regulated |
| <b><u>IATA</u></b>     | Not regulated |
| <b><u>IMDG/IMO</u></b> | Not regulated |

## 15. REGULATORY INFORMATION

### Chemical Inventories

|                 |  |
|-----------------|--|
| <b>TSCA</b>     | All components of this product are either on the TSCA 8(b) Inventory or otherwise exempt from listing. |
| <b>DSL/NDSL</b> | All components are on the DSL or NDSL.   |

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

### U.S. Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### **SARA 311/312 Hazard Categories**

|  |     |
|--|-----|
| <b>Acute Health Hazard</b>               | Yes |
| <b>Chronic Health Hazard</b>             | No  |
| <b>Fire Hazard</b>                       | No  |
| <b>Sudden Release of Pressure Hazard</b> | No  |
| <b>Reactive Hazard</b>                   | No  |

**Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**EPA Statement**

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

**CAUTION:** Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling. Avoid contact with foods.

**U.S. State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

| Chemical Name            | New Jersey | Massachusetts | Pennsylvania | Rhode Island | Illinois |
|--------------------------|------------|---------------|--------------|--------------|----------|
| Ethanolamine<br>141-43-5 | X          | X             | X            | -            | X        |

**International Regulations**

**Canada**

**WHMIS Hazard Class**

D2B Toxic Materials





|                              |
|------------------------------|
| <b>16. OTHER INFORMATION</b> |
|------------------------------|

|                    |                 |                |                   |                                 |
|--------------------|-----------------|----------------|-------------------|---------------------------------|
| <b><u>NFPA</u></b> | Health Hazard 1 | Flammability 0 | Instability 0     | Physical and Chemical Hazards - |
| <b><u>HMIS</u></b> | Health Hazard 1 | Flammability 0 | Physical Hazard 0 | Personal Protection B           |

**Prepared By** Product Stewardship  
23 British American Blvd.  
Latham, NY 12110  
1-800-572-6501

**Preparation/Revision Date** January 5, 2015

**Revision Date** New

**Revision Note** New

**Reference** 1071534/166962.001

**General Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of Safety Data Sheet**



# SAFETY DATA SHEET

Issuing Date January 5, 2015

Revision Date New

Revision Number 0

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product identifier

**Product Name** Formula 409® Antibacterial All-Purpose Cleaner

### Other means of identification

**EPA Registration Number** 5813-73

### Recommended use of the chemical and restrictions on use

**Recommended Use** Multi-purpose spray cleaner and disinfectant

**Uses advised against** No information available

### Details of the supplier of the safety data sheet

#### **Supplier Address**

The Clorox Company  
1221 Broadway  
Oakland, CA 94612

Phone: 1-510-271-7000

### Emergency telephone number

**Emergency Phone Numbers** For Medical Emergencies call: 1-800-446-1014  
For Transportation Emergencies, call Chemtrec: 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

### Classification

This mixture is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

|                           |            |
|---------------------------|------------|
| Skin corrosion/irritation | Category 3 |
|---------------------------|------------|

### GHS Label elements, including precautionary statements

#### Emergency Overview

|   |                                   |
|---|-----------------------------------|
| <b>Signal word</b>                                      | <b>Warning</b>                    |
| <b>Hazard statements</b><br>Causes mild skin irritation | No pictogram required.            |
| <b>Appearance</b> Clear, green                          | <b>Physical State</b> Thin liquid |
|   | <b>Odor</b> Floral, citrus        |

### Precautionary Statements - Prevention

None

### Precautionary Statements - Response

If skin irritation occurs: Get medical advice.

### Precautionary Statements - Storage

None

### Precautionary Statements - Disposal

None

### Hazards not otherwise classified (HNOC)

Not applicable

### Unknown Toxicity

0.2% of the mixture consists of ingredient(s) of unknown toxicity

### Other information

Very toxic to aquatic life with long-lasting effects.

### Interactions with Other Chemicals

None known.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name   | CAS-No     | Weight %  | Trade Secret |
|---|------------|-----------|--------------|
| Lauramine oxide   | 1643-20-5  | 0.5 - 1.5 | *            |
| n-Alkyl (40% C12, 50% C14, 10% C16) dimethyl benzyl ammonium chloride | 68424-85-1 | 0.2 - 0.4 | *            |

\* The exact percentage (concentration) of composition has been withheld as a trade secret

---

## 4. FIRST AID MEASURES

### First aid measures

|                       |  |
|-----------------------|--|
| <b>General Advice</b> | Show this safety data sheet to the doctor in attendance.   |
| <b>Eye Contact</b>    | Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.  |
| <b>Skin Contact</b>   | Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.  |
| <b>Inhalation</b>     | Move to fresh air. If breathing is affected, call a doctor.  |
| <b>Ingestion</b>      | Call a poison control center or doctor immediately for treatment advice. Have person sip a glassful of water if able to swallow. DO NOT induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. |

### Most important symptoms and effects, both acute and delayed

**Most Important Symptoms/Effects** Mild irritation of eyes and skin.

### Indication of any immediate medical attention and special treatment needed

**Notes to Physician** Treat symptomatically.

---

## 5. FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### Unsuitable Extinguishing Media

CAUTION: Use of water spray when fighting fire may be inefficient.

### Specific Hazards Arising from the Chemical

No information available

### Explosion Data

**Sensitivity to Mechanical Impact** None

**Sensitivity to Static Discharge** None

### Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal Precautions** Avoid contact with eyes and skin.

**Other Information** Refer to protective measures listed in Sections 7 and 8.

### Environmental precautions

**Environmental Precautions** See Section 12 for additional ecological Information

### Methods and material for containment and cleaning up

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for Cleaning Up** Absorb and containerize. Wash residual down to sanitary sewer. Contact the sanitary treatment facility in advance to assure ability to process washed-down material.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes, skin, and clothing. Do not eat, drink, or smoke when using this product.

### Conditions for safe storage, including any incompatibilities

**Storage** Keep containers tightly closed in a dry, cool, and well-ventilated place.

**Incompatible Products** None known.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure Guidelines

| Chemical Name  | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|--|-----------|----------|------------|
| Lauramine oxide<br>1643-20-5   | None      | None     | None       |
| n-Alkyl (40% C12, 50% C14, 10% C16)<br>dimethyl benzyl ammonium chloride<br>68424-85-1 | None      | None     | None       |

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.

### Appropriate engineering controls

**Engineering Measures** Showers  
Eyewash stations  
Ventilation systems

**Individual protection measures, such as personal protective equipment**

|                                 |   |
|---------------------------------|---|
| <b>Eye/Face Protection</b>      | If splashes are likely to occur, wear safety glasses with side-shields. None required for consumer use.   |
| <b>Skin and Body Protection</b> | No special protective equipment required.   |
| <b>Respiratory Protection</b>   | If irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations. |
| <b>Hygiene Measures</b>         | Remove and wash contaminated clothing before re-use. Avoid contact with skin, eyes, or clothing. Do not eat, drink, or smoke when using this product.   |

**9. PHYSICAL AND CHEMICAL PROPERTIES****Physical and Chemical Properties**

|                       |             |                       |                          |
|-----------------------|-------------|-----------------------|--------------------------|
| <b>Physical State</b> | Thin liquid |                       |                          |
| <b>Appearance</b>     | Clear       | <b>Odor</b>           | Floral, citrus           |
| <b>Color</b>          | Green       | <b>Odor Threshold</b> | No information available |

| <b><u>Property</u></b>                        | <b><u>Values</u></b> | <b><u>Remarks/ Method</u></b> |
|---|----------------------|-------------------------------|
| <b>pH</b>                                     | 9 - 11.5             | None known                    |
| <b>Melting/freezing point</b>                 | No data available    | None known                    |
| <b>Boiling Point/Range</b>                    | No data available    | None known                    |
| <b>Flash Point</b>                            | No data available    | None known                    |
| <b>Evaporation rate</b>                       | No data available    | None known                    |
| <b>Flammability (solid, gas)</b>              | No data available    | None known                    |
| <b>Flammability Limits in Air</b>             |                      |                               |
| <b>Upper flammability limit</b>               | No data available    | None known                    |
| <b>Lower flammability limit</b>               | No data available    | None known                    |
| <b>Vapor pressure</b>                         | No data available    | None known                    |
| <b>Vapor density</b>                          | No data available    | None known                    |
| <b>Specific Gravity</b>                       | ~1.0                 | None known                    |
| <b>Water Solubility</b>                       | Soluble in water.    | None known                    |
| <b>Solubility in other solvents</b>           | No data available    | None known                    |
| <b>Partition coefficient: n-octanol/water</b> | No data available    | None known                    |
| <b>Autoignition temperature</b>               | No data available    | None known                    |
| <b>Decomposition temperature</b>              | No data available    | None known                    |
| <b>Kinematic viscosity</b>                    | No data available    | None known                    |
| <b>Dynamic viscosity</b>                      | No data available    | None known                    |
| <b>Explosive Properties</b>                   | Not explosive        |                               |
| <b>Oxidizing Properties</b>                   | No data available    |                               |

**Other Information**

|                                   |                   |
|-----------------------------------|-------------------|
| <b>Softening Point</b>            | No data available |
| <b>VOC Content (%)</b>            | No data available |
| <b>Particle Size</b>              | No data available |
| <b>Particle Size Distribution</b> | No data available |

## 10. STABILITY AND REACTIVITY

### Reactivity

No data available.

### Chemical stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

### Conditions to avoid

None known.

### Incompatible materials

None known.

### Hazardous Decomposition Products

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

|                     |   |
|---------------------|---|
| <b>Inhalation</b>   | Exposure to vapor or mist may irritate respiratory tract.   |
| <b>Eye Contact</b>  | May cause eye irritation.   |
| <b>Skin Contact</b> | Prolonged contact may cause irritation.   |
| <b>Ingestion</b>    | Ingestion may cause irritation to mucous membranes and gastrointestinal irritation, nausea, vomiting, and diarrhea. |

### Information on toxicological effects

**Symptoms** May cause redness and tearing of the eyes and skin redness.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

|                                 |  |
|---------------------------------|--|
| <b>Sensitization</b>            | No information available.                                    |
| <b>Mutagenic Effects</b>        | No information available.                                    |
| <b>Carcinogenicity</b>          | Contains no ingredient listed as a carcinogen.               |
| <b>Reproductive Toxicity</b>    | No information available                                     |
| <b>STOT - single exposure</b>   | No information available.                                    |
| <b>STOT - repeated exposure</b> | No information available.                                    |
| <b>Chronic Toxicity</b>         | No known effect.   |
| <b>Target Organ Effects</b>     | Respiratory system, eyes, skin, gastrointestinal tract (GI). |
| <b>Aspiration Hazard</b>        | No information available.                                    |

### Numerical measures of toxicity Product Information

The following values are calculated based on chapter 3.1 of the GHS document      Not applicable.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Very toxic to aquatic life with long lasting effects.

**Persistence and Degradability**

No information available.

**Bioaccumulation**

No information available.

**Other Adverse Effects**

No information available.

**13. DISPOSAL CONSIDERATIONS**

**Disposal methods**

Dispose of in accordance with all applicable federal, state, and local regulations.

**Contaminated Packaging**

Do not reuse empty containers. Dispose of in accordance with all applicable federal, state, and local regulations.

**14. TRANSPORT INFORMATION**

|                        |               |
|------------------------|---------------|
| <b><u>DOT</u></b>      | Not regulated |
| <b><u>TDG</u></b>      | Not regulated |
| <b><u>ICAO</u></b>     | Not regulated |
| <b><u>IATA</u></b>     | Not regulated |
| <b><u>IMDG/IMO</u></b> | Not regulated |

**15. REGULATORY INFORMATION**

**Chemical Inventories**

|                 |  |
|-----------------|--|
| <b>TSCA</b>     | All components of this product are either on the TSCA 8(b) Inventory or otherwise exempt from listing. |
| <b>DSL/NDSL</b> | All components are on the DSL or NDSL.   |

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**U.S. Federal Regulations**

**SARA 313**  
 Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**

|  |     |
|--|-----|
| <b>Acute Health Hazard</b>               | Yes |
| <b>Chronic Health Hazard</b>             | No  |
| <b>Fire Hazard</b>                       | No  |
| <b>Sudden Release of Pressure Hazard</b> | No  |
| <b>Reactive Hazard</b>                   | No  |



**Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**EPA Statement**

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

**CAUTION:** Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling. Avoid contact with foods.

**U.S. State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

| Chemical Name            | New Jersey | Massachusetts | Pennsylvania | Rhode Island | Illinois |
|--------------------------|------------|---------------|--------------|--------------|----------|
| Ethanolamine<br>141-43-5 | X          | X             | X            | -            | X        |

**International Regulations****Canada****WHMIS Hazard Class**

D2B Toxic Materials



**16. OTHER INFORMATION**

|             |                 |                |                   |  |
|-------------|-----------------|----------------|-------------------|--|
| <b>NFPA</b> | Health Hazard 1 | Flammability 0 | Instability 0     | <b>Physical and Chemical Hazards -</b> |
| <b>HMIS</b> | Health Hazard 1 | Flammability 0 | Physical Hazard 0 | <b>Personal Protection B</b>           |

**Prepared By** Product Stewardship  
 23 British American Blvd.  
 Latham, NY 12110  
 1-800-572-6501

**Preparation/Revision Date** January 5, 2015

**Revision Date** New

**Revision Note** New

**Reference** 1071534/166962.001

**General Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of Safety Data Sheet**



## Glade Super Fresh Spray

Version Number: 2

Preparation date: 2014-10-03

### 1. IDENTIFICATION

**Product name:** Glade Super Fresh Spray  
**Product Code:** 994782  
**SDS #:** MS0800123  
**Recommended use:**

- Industrial/Institutional
- Air care.

**Uses advised against:** Uses other than those identified are not recommended

**Manufacturer, importer, supplier:**

|  |  |
|--|--|
| US Headquarters<br>Sealed Air<br>8215 Forest Point Blvd.<br>Charlotte, NC 28273-5509<br>Phone: 1-888-352-2249<br>SDS Internet Address: www.sds.sealedair.com | Canadian Headquarters<br>Sealed Air - Canada<br>3755 Laird Road<br>Mississauga, Ontario L5L 0B3<br>Phone: 1-800-668-3131 |
|--|--|

**Emergency telephone number:** 1-800-851-7145 (U.S.); 1-651-917-6133 (Int'l)

### 2. HAZARDS IDENTIFICATION

#### Classification for the undiluted product

Flammability Flammable aerosol, Category 2



**Signal Word:**

**Warning.**

#### Precautionary Statements

**FLAMMABLE AEROSOL. CONTAINS GAS UNDER PRESSURE; MAY EXPLODE IF HEATED.**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Do not incinerate. Protect from sunlight. Store in a well-ventilated place. Do not expose to temperatures exceeding 50 °C (122 °F) which may cause bursting. Dispose of in accordance with all federal, state and local applicable regulations.

**Health hazards not otherwise classified (HHNOC)** - Not applicable

**Physical hazards not otherwise classified (PHNOC)** - Not applicable

#### Classification for the diluted product @ RTU

This product is intended to be used neat.

#### Precautionary Statements

Glade Super Fresh Spray

1 of 5

See undiluted product information above.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Classified Ingredients

| Ingredient(s) | CAS #   | Weight % |
|---------------|---------|----------|
| Isobutane     | 75-28-5 | 10 - 20% |
| Propane       | 74-98-6 | 5 - 10%  |

\*Exact percentages are being withheld as trade secret information

### 4. FIRST AID MEASURES

#### Undiluted Product:

**Eyes:** Rinse with plenty of water. If irritation occurs and persists, get medical attention.

**Skin:** Rinse with plenty of water. If irritation occurs and persists, get medical attention.

**Inhalation:** No specific first aid measures are required.

**Ingestion:** Rinse mouth with water.

**Most Important Symptoms/Effects:** No information available.

**Immediate medical attention and special treatment needed:** Not applicable.

**Aggravated Medical Conditions:** Persons with pre-existing skin disorders may be more susceptible to irritating effects.

#### Diluted Product:

This product is intended to be used neat.

**Eyes:** See undiluted product information above.

**Skin:** See undiluted product information above.

**Inhalation:** See undiluted product information above.

**Ingestion:** See undiluted product information above.

### 5. FIRE-FIGHTING MEASURES

**Specific methods:**

No special methods required

**Suitable extinguishing media:**

Dry chemical, water spray, foam, carbon dioxide.

**Specific hazards:**

Aerosol product - Containers may rocket or explode in heat of fire. NFPA 30B Level 1 Aerosol.

**Special protective equipment for firefighters:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**Extinguishing media which must not be used for safety reasons:** No information available.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:**

Remove all sources of ignition.

**Environmental precautions and clean-up methods:**

Eliminate all ignition sources. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Use a water rinse for final clean-up.

### 7. HANDLING AND STORAGE

**Handling:** WARNING: Use only as directed. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. Avoid contact with skin and eyes. CONTENTS UNDER PRESSURE. Do not puncture or incinerate. FOR COMMERCIAL AND INDUSTRIAL USE ONLY.

**Storage:** Protect from freezing. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 degrees C or 120 degrees F. Exposure to heat may cause bursting. Do not pierce or burn, even after use. Store in a cool, dry, well ventilated area away from heat or open flame. KEEP OUT OF REACH OF CHILDREN.

**Aerosol Level (if applicable):** Level 1

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Guidelines:**

| Ingredient(s) | CAS #   | ACGIH           | OSHA |
|---------------|---------|-----------------|------|
| Isobutane     | 75-28-5 | 1000 ppm (STEL) | -    |

|         |         |                |  |
|---------|---------|----------------|--|
| Propane | 74-98-6 | 1000 ppm (TWA) | 1000 ppm (TWA)<br>1800 mg/m <sup>3</sup> (TWA) |
|---------|---------|----------------|--|

**Undiluted Product:**

**Engineering measures to reduce exposure:**

No special ventilation requirements General room ventilation is adequate

**Personal Protective Equipment**

**Eye protection:** No special requirements under normal use conditions.  
**Hand protection:** No special requirements under normal use conditions.  
**Skin and body protection:** No special requirements under normal use conditions.  
**Respiratory protection:** No special requirements under normal use conditions.  
**Hygiene measures:** Handle in accordance with good industrial hygiene and safety practice.

**Diluted Product:**

This product is intended to be used neat.

**Personal Protective Equipment**

**Eye protection:** No personal protective equipment required under normal use conditions.  
**Hand protection:** No personal protective equipment required under normal use conditions.  
**Skin and body protection:** No personal protective equipment required under normal use conditions.  
**Respiratory protection:** No personal protective equipment required under normal use conditions.  
**Hygiene measures:** Handle in accordance with good industrial hygiene and safety practice.

**9. PHYSICAL AND CHEMICAL PROPERTIES:**

|   |  |
|---|--|
| <b>Physical State:</b> Aerosol  | <b>Color:</b> Colorless  |
| <b>Evaporation Rate:</b> No information available                               | <b>Odor:</b> Fresh   |
| <b>Odor threshold:</b> No information available.                                | <b>Boiling point/range:</b> Not determined                               |
| <b>Melting point/range:</b> Not determined                                      | <b>Decomposition temperature:</b> Not determined                         |
| <b>Autoignition temperature:</b> No information available                       | <b>Solubility:</b> Completely Soluble                                    |
| <b>Solubility in other solvents:</b> No information available                   | <b>Relative Density (relative to water):</b> No information available    |
| <b>Density:</b> 7.17 lbs/gal 0.86 Kg/L  | <b>Vapor density:</b> No information available                           |
| <b>Bulk density:</b> No information available                                   | <b>Vapor pressure:</b> No information available.                         |
| <b>Flash point:</b> 19 °F -7 °C   | <b>Partition coefficient (n-octanol/water):</b> No information available |
| <b>Dilution Flash Point:</b> 19 °F -7 °C  | <b>Viscosity:</b> No information available                               |
| <b>Elemental Phosphorus:</b> 0.16 % by wt.                                      | <b>VOC:</b> 19.5 % *   |
| <b>pH:</b> Not applicable   | <b>VOC % by wt. at use dilution</b> 19.5 % *                             |
| <b>Dilution pH:</b> Not applicable @ RTU  | <b>Flammability (Solid or Gas):</b> Not applicable                       |
| <b>Metal Corrosion:</b> Not determined  |  |
| <b>Explosion limits: - upper:</b> Not determined - <b>lower:</b> Not determined |  |

\* - Title 17, California Code of Regulations, Division 3, Chapter 1, Subchapter 8.5, Article 2, Consumer Products, Sections 94508

**10. STABILITY AND REACTIVITY**

**Reactivity:** Not Applicable  
**Stability:** The product is stable  
**Hazardous decomposition products:** None reasonably foreseeable.  
**Materials to avoid:** Do not mix with any other product or chemical unless specified in the use directions.  
**Conditions to avoid:** Keep away from open flames, hot surfaces and sources of ignition.

**11. TOXICOLOGICAL INFORMATION**

**Information on likely routes of exposure:**

Eye contact, Skin contact, Inhalation

**Delayed, immediate, or chronic effects and symptoms from short and long-term exposure**

**Skin contact:** Unlikely to be irritant in normal use.  
**Eye contact:** May be mildly irritating to eyes.  
**Ingestion:** No information available.  
**Inhalation:** No information available.  
**Sensitization:** No known effects.  
**Target Organs (SE):** None known

Target Organs (RE): None known

**Numerical measures of toxicity**

ATE - Oral (mg/kg): >5000 mg/kg

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity:** No information available.

**Persistence and Degradability:** No information available.

**Bioaccumulation:** No information available.

**13. DISPOSAL CONSIDERATIONS**

**Waste from residues / unused products:** This product, as sold, if discarded or disposed, is a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Dispose in compliance with all Federal, state, provincial, and local laws and regulations.

**Contaminated Packaging:** Do not re-use empty containers.

**RCRA Hazard Class (undiluted product):** D001 Ignitable Waste

**14. TRANSPORT INFORMATION**

**DOT/TDG/IMDG:** Proper shipping descriptions can vary by pack size. Please refer to the Diversey HazMat Library, **only available through Internet Explorer**, <http://naextranet.diversey.com/dot/>, for up to date shipping information.

**DOT (Ground) Bill of Lading Description:** LTD. QTY.

**IMDG (Ocean) Bill of Lading Description:** UN1950, AEROSOLS, 2.1, LTD. QTY.

**15. REGULATORY INFORMATION**

**International Inventories at CAS# Level**

All components of this product are listed on the following inventories: U.S.A. (TSCA), Canada (DSL/NDSL).

**U.S. Regulations**

**California Proposition 65:** This product is not subject to the reporting requirements under California's Proposition 65.

**RIGHT TO KNOW (RTK)**

| Ingredient(s)        | CAS #       | MARTK: | NJRTK: | PARTK: | RIRTK: |
|----------------------|-------------|--------|--------|--------|--------|
| Water                | 7732-18-5   | -      | -      | -      | -      |
| Isobutane            | 75-28-5     | X      | X      | X      | -      |
| Propane              | 74-98-6     | X      | X      | X      | -      |
| Monosodium phosphate | 7558-80-7   | -      | -      | -      | -      |
| Sorbitan monooleate  | 1338-43-8   | -      | -      | -      | -      |
| Fragrance            | Proprietary | -      | -      | -      | -      |

**CERCLA/ SARA**

**SARA 311/312 Hazard Categories**

Immediate: -  
Delayed: -  
Fire: X  
Reactivity: -  
Sudden Release of Pressure: X

## Canadian Regulations

| Ingredient(s) | CAS #   | NPRI |
|---------------|---------|------|
| Propane       | 74-98-6 | X    |

## 16. OTHER INFORMATION

### NFPA (National Fire Protection Association)

Rating Scale: (Low Hazard) 0 - 4 (Extreme Hazard)

Health 0

Flammability 4

Instability 0

Version Number: 2

Preparation date: 2014-10-03

Reason for revision:

Not applicable

Prepared by:

NAPRAC

Additional advice:

• Contains an added fragrance, see "Odor" heading in section 9 for specific description

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**GOJO® NATURAL\* ORANGE™ Pumice Hand Cleaner**

Version 1.0      Revision Date: 03/02/2015      MSDS Number: 68057-00001      Date of last issue: -  
Date of first issue: 03/02/2015

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**SECTION 1. IDENTIFICATION**

Product name : GOJO® NATURAL\* ORANGE™ Pumice Hand Cleaner

**Manufacturer or supplier's details**

Company name of supplier : GOJO Industries, Inc.

Address : One GOJO Plaza, Suite 500  
Akron OH 44311

Telephone : 1 (330) 255-6000

Emergency telephone : 1-800-424-9300 CHEMTREC

**Recommended use of the chemical and restrictions on use**

Recommended use : Skin-care

Restrictions on use : This is a personal care or cosmetic product that is safe for consumers and other users under normal and reasonably foreseeable use. Cosmetics and consumer products, specifically defined by regulations around the world, are exempt from the requirement of an SDS for the consumer. While this material is not considered hazardous, this SDS contains valuable information critical to the safe handling and proper use of the product for industrial workplace conditions as well as unusual and unintended exposures such as large spills. This SDS should be retained and available for employees and other users of this product. For specific intended-use guidance, please refer to the information provided on the package or instruction sheet.

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**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification**

Eye irritation : Category 2A

**GHS Label element**

Hazard pictograms :



Signal Word : Warning

Hazard Statements : H319 Causes serious eye irritation.

Precautionary Statements : **Prevention:**





# GOJO® NATURAL \* ORANGE™ Pumice Hand Cleaner

Version 1.0      Revision Date: 03/02/2015      MSDS Number: 68057-00001      Date of last issue: -  
Date of first issue: 03/02/2015

P264 Wash skin thoroughly after handling.  
P280 Wear eye protection/ face protection.

**Response:**

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

**Other hazards**

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

**Hazardous ingredients**

| Chemical Name                              | CAS-No.    | Concentration (%) |
|--|------------|-------------------|
| 1-Methyl 4-(1-Methylethenyl) Cyclohexene   | 5989-27-5  | >= 5 - < 10       |
| Alcohols, C12-15, ethoxylated propoxylated | 68551-13-3 | >= 1 - < 5        |

## SECTION 4. FIRST AID MEASURES

- General advice : In the case of accident or if you feel unwell, seek medical advice immediately.  
When symptoms persist or in all cases of doubt seek medical advice.
- If inhaled : If inhaled, remove to fresh air.  
Get medical attention if symptoms occur.
- In case of skin contact : Wash with water and soap as a precaution.  
Get medical attention if symptoms occur.
- In case of eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.  
If easy to do, remove contact lens, if worn.  
Get medical attention.
- If swallowed : If swallowed, DO NOT induce vomiting.  
Get medical attention if symptoms occur.  
Rinse mouth thoroughly with water.
- Most important symptoms and effects, both acute and delayed : Causes serious eye irritation.
- Protection of first-aiders : First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists.



## GOJO® NATURAL \* ORANGE™ Pumice Hand Cleaner

|                |                              |                             |  |
|----------------|------------------------------|-----------------------------|--|
| Version<br>1.0 | Revision Date:<br>03/02/2015 | MSDS Number:<br>68057-00001 | Date of last issue: -<br>Date of first issue: 03/02/2015 |
|----------------|------------------------------|-----------------------------|--|

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Notes to physician : Treat symptomatically and supportively.

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### SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Water spray  
Alcohol-resistant foam  
Dry chemical  
Carbon dioxide (CO<sub>2</sub>)
- Unsuitable extinguishing media : None known.
- Specific hazards during fire fighting : Exposure to combustion products may be a hazard to health.
- Hazardous combustion products : Carbon oxides
- Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Use water spray to cool unopened containers.  
Remove undamaged containers from fire area if it is safe to do so.  
Evacuate area.
- Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.
- 

### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Follow safe handling advice and personal protective equipment recommendations.
- Environmental precautions : Discharge into the environment must be avoided.  
Prevent further leakage or spillage if safe to do so.  
Prevent spreading over a wide area (e.g. by containment or oil barriers).  
Retain and dispose of contaminated wash water.  
Local authorities should be advised if significant spillages cannot be contained.
- Methods and materials for containment and cleaning up : Soak up with inert absorbent material.  
For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container.  
Clean up remaining materials from spill with suitable absorbent.  
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items



## GOJO® NATURAL \* ORANGE™ Pumice Hand Cleaner

|                |                              |                             |  |
|----------------|------------------------------|-----------------------------|--|
| Version<br>1.0 | Revision Date:<br>03/02/2015 | MSDS Number:<br>68057-00001 | Date of last issue: -<br>Date of first issue: 03/02/2015 |
|----------------|------------------------------|-----------------------------|--|

employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

### SECTION 7. HANDLING AND STORAGE

- Technical measures : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
- Local/Total ventilation : Use only with adequate ventilation.
- Advice on safe handling : Avoid inhalation of vapor or mist.  
Do not swallow.  
Do not get in eyes.  
Avoid prolonged or repeated contact with skin.  
Handle in accordance with good industrial hygiene and safety practice.  
Take care to prevent spills, waste and minimize release to the environment.
- Conditions for safe storage : Keep in properly labeled containers.  
Store in accordance with the particular national regulations.
- Materials to avoid : Do not store with the following product types:  
Strong oxidizing agents

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

#### Hazardous components without workplace control parameters

| Ingredients                                   | CAS-No.    |
|---|------------|
| 1-Methyl 4-(1-Methylethenyl)<br>Cyclohexene   | 5989-27-5  |
| Alcohols, C12-15, ethoxylated<br>propoxylated | 68551-13-3 |

- Engineering measures** : Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations. Dust formation may be relevant in the processing of this product. In addition to substance-specific OELs, general limitations of concentrations of particulates in the air at workplaces have to be considered in workplace risk assessment. Relevant limits include: OSHA PEL for Particulates Not Otherwise Regulated of 15 mg/m<sup>3</sup> - total dust, 5 mg/m<sup>3</sup> - respirable fraction; and ACGIH TWA for Particles (insoluble or poorly soluble) Not Otherwise Specified of 3 mg/m<sup>3</sup> - respirable particles, 10 mg/m<sup>3</sup> - inhalable particles.



## GOJO® NATURAL\* ORANGE™ Pumice Hand Cleaner

|                |                              |                             |  |
|----------------|------------------------------|-----------------------------|--|
| Version<br>1.0 | Revision Date:<br>03/02/2015 | MSDS Number:<br>68057-00001 | Date of last issue: -<br>Date of first issue: 03/02/2015 |
|----------------|------------------------------|-----------------------------|--|

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### Personal protective equipment

- Respiratory protection : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.
- Hand protection  
Material : Impervious gloves
- Remarks : Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.
- Eye protection : Wear the following personal protective equipment:  
Safety goggles
- Skin and body protection : Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.  
Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).
- Hygiene measures : Ensure that eye flushing systems and safety showers are located close to the working place.  
When using do not eat, drink or smoke.  
Wash contaminated clothing before re-use.

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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : liquid
- Color : gray, opaque
- Odor : citrus
- Odor Threshold : No data available



# GOJO® NATURAL\* ORANGE™ Pumice Hand Cleaner

|                |                              |                             |  |
|----------------|------------------------------|-----------------------------|--|
| Version<br>1.0 | Revision Date:<br>03/02/2015 | MSDS Number:<br>68057-00001 | Date of last issue: -<br>Date of first issue: 03/02/2015 |
|----------------|------------------------------|-----------------------------|--|

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|   |   |
|---|---|
| pH                                      | : 5.0 - 8.0   |
| Melting point/freezing point            | : No data available   |
| Initial boiling point and boiling range | : 95 °C   |
| Flash point                             | : > 100 °C  |
| Evaporation rate                        | : No data available   |
| Flammability (solid, gas)               | : Not applicable  |
| Upper explosion limit                   | : No data available   |
| Lower explosion limit                   | : No data available   |
| Vapor pressure                          | : No data available   |
| Relative vapor density                  | : No data available   |
| Density                                 | : 1.0390 g/cm <sup>3</sup>                                  |
| Solubility(ies)<br>Water solubility     | : soluble   |
| Partition coefficient: n-octanol/water  | : Not applicable  |
| Autoignition temperature                | : No data available   |
| Decomposition temperature               | : The substance or mixture is not classified self-reactive. |
| Viscosity<br>Viscosity, kinematic       | : 10,000 - 50,000 mm <sup>2</sup> /s (20 °C)                |
| Explosive properties                    | : Not explosive   |
| Oxidizing properties                    | : The substance or mixture is not classified as oxidizing.  |

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## SECTION 10. STABILITY AND REACTIVITY

|                                    |   |
|------------------------------------|---|
| Reactivity                         | : Not classified as a reactivity hazard.  |
| Chemical stability                 | : Stable under normal conditions.         |
| Possibility of hazardous reactions | : Can react with strong oxidizing agents. |
| Conditions to avoid                | : None known.                             |



# GOJO® NATURAL \* ORANGE™ Pumice Hand Cleaner

|                |                              |                             |  |
|----------------|------------------------------|-----------------------------|--|
| Version<br>1.0 | Revision Date:<br>03/02/2015 | MSDS Number:<br>68057-00001 | Date of last issue: -<br>Date of first issue: 03/02/2015 |
|----------------|------------------------------|-----------------------------|--|

Incompatible materials : Oxidizing agents

Hazardous decomposition products : No hazardous decomposition products are known.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

Inhalation  
Skin contact  
Ingestion  
Eye contact

### Acute toxicity

Not classified based on available information.

### Ingredients:

#### **1-Methyl 4-(1-Methylethenyl) Cyclohexene:**

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg  
Assessment: The substance or mixture has no acute oral toxicity  
Remarks: Based on data from similar materials

#### **Alcohols, C12-15, ethoxylated propoxylated:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
Remarks: Based on data from similar materials

Acute inhalation toxicity : LC50 (Rat): > 1.6 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: Based on data from similar materials

### **Skin corrosion/irritation**

Not classified based on available information.

### Product:

Result: No skin irritation

### Ingredients:

#### **1-Methyl 4-(1-Methylethenyl) Cyclohexene:**

Species: Rabbit  
Result: Skin irritation

#### **Alcohols, C12-15, ethoxylated propoxylated:**

Species: Rabbit  
Method: OECD Test Guideline 404

**GOJO® NATURAL \* ORANGE™ Pumice Hand Cleaner**

Version 1.0      Revision Date: 03/02/2015      MSDS Number: 68057-00001      Date of last issue: -  
Date of first issue: 03/02/2015

---

Result: No skin irritation  
Remarks: Based on data from similar materials

**Serious eye damage/eye irritation**

Causes serious eye irritation.

**Ingredients:****1-Methyl 4-(1-Methylethenyl) Cyclohexene:**

Species: Rabbit

Result: No eye irritation

**Alcohols, C12-15, ethoxylated propoxylated:**

Result: Irreversible effects on the eye

Remarks: Based on data from similar materials

**Respiratory or skin sensitization**

Skin sensitization: Not classified based on available information.

Respiratory sensitization: Not classified based on available information.

**Product:**

Assessment: Does not cause skin sensitization.

**Ingredients:****1-Methyl 4-(1-Methylethenyl) Cyclohexene:**

Test Type: Local lymph node assay (LLNA)

Routes of exposure: Skin contact

Species: Mouse

Result: positive

Assessment: Probability or evidence of skin sensitization in humans

**Alcohols, C12-15, ethoxylated propoxylated:**

Test Type: Maximization Test (GPMT)

Routes of exposure: Skin contact

Species: Guinea pig

Method: OECD Test Guideline 406

Result: negative

Remarks: Based on data from similar materials

**Germ cell mutagenicity**

Not classified based on available information.

**Ingredients:****1-Methyl 4-(1-Methylethenyl) Cyclohexene:**

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test  
Result: negative

Genotoxicity in vivo : Test Type: Transgenic rodent somatic cell gene mutation assay  
Species: Rat  
Application Route: Ingestion



# GOJO® NATURAL \* ORANGE™ Pumice Hand Cleaner

|                |                              |                             |  |
|----------------|------------------------------|-----------------------------|--|
| Version<br>1.0 | Revision Date:<br>03/02/2015 | MSDS Number:<br>68057-00001 | Date of last issue: -<br>Date of first issue: 03/02/2015 |
|----------------|------------------------------|-----------------------------|--|

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Result: negative

### Alcohols, C12-15, ethoxylated propoxylated:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Result: negative  
Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis)  
Species: Rat  
Application Route: Ingestion  
Result: negative  
Remarks: Based on data from similar materials

### Carcinogenicity

Not classified based on available information.

### Ingredients:

#### 1-Methyl 4-(1-Methylethenyl) Cyclohexene:

Species: Mouse  
Application Route: Ingestion  
Exposure time: 103 weeks  
Result: negative

### IARC

No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

### OSHA

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

### NTP

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

### Reproductive toxicity

Not classified based on available information.

### Ingredients:

#### Alcohols, C12-15, ethoxylated propoxylated:

Effects on fertility : Test Type: Two-generation reproduction toxicity study  
Species: Rat  
Application Route: Skin contact  
Result: negative  
Remarks: Based on data from similar materials

Effects on fetal development : Test Type: Two-generation reproduction toxicity study  
Species: Rat  
Application Route: Skin contact  
Result: negative  
Remarks: Based on data from similar materials





# GOJO® NATURAL \* ORANGE™ Pumice Hand Cleaner

|                |                              |                             |  |
|----------------|------------------------------|-----------------------------|--|
| Version<br>1.0 | Revision Date:<br>03/02/2015 | MSDS Number:<br>68057-00001 | Date of last issue: -<br>Date of first issue: 03/02/2015 |
|----------------|------------------------------|-----------------------------|--|

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### STOT-single exposure

Not classified based on available information.

### STOT-repeated exposure

Not classified based on available information.

### Repeated dose toxicity

#### Ingredients:

#### **1-Methyl 4-(1-Methylethenyl) Cyclohexene:**

Species: Rat

NOAEL: 600 mg/kg

Application Route: Ingestion

Exposure time: 13 w

#### **Alcohols, C12-15, ethoxylated propoxylated:**

Species: Rat

NOAEL: 500 mg/kg

Application Route: Ingestion

Exposure time: 90 d

Remarks: Based on data from similar materials

### Aspiration toxicity

Not classified based on available information.

#### Ingredients:

#### **1-Methyl 4-(1-Methylethenyl) Cyclohexene:**

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Ingredients:

#### **1-Methyl 4-(1-Methylethenyl) Cyclohexene:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 0.72 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 0.36 mg/l  
aquatic invertebrates Exposure time: 48 h

Toxicity to algae : ErC50 (Desmodesmus subspicatus (green algae)): 150 mg/l  
Exposure time: 72 h  
Test substance: Water Accommodated Fraction  
Remarks: Based on data from similar materials

M-Factor (Acute aquatic tox- : 1  
icity)

#### **Alcohols, C12-15, ethoxylated propoxylated:**

Toxicity to fish : LC50 (Scophthalmus maximus (turbot)): 3.1 mg/l



# GOJO® NATURAL \* ORANGE™ Pumice Hand Cleaner

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | MSDS Number: | Date of last issue: -           |
| 1.0     | 03/02/2015     | 68057-00001  | Date of first issue: 03/02/2015 |

---

Exposure time: 96 h  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.14 mg/l  
Exposure time: 48 h  
Remarks: Based on data from similar materials

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 0.75 mg/l  
Exposure time: 72 h  
Remarks: Based on data from similar materials

M-Factor (Acute aquatic toxicity) : 1

Toxicity to bacteria : EC50 (Pseudomonas putida): > 10,000 mg/l  
Exposure time: 16.9 h  
Remarks: Based on data from similar materials

## Persistence and degradability

### Ingredients:

#### **1-Methyl 4-(1-Methylethenyl) Cyclohexene:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 80 %  
Exposure time: 28 d  
Remarks: Based on data from similar materials

#### **Alcohols, C12-15, ethoxylated propoxylated:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 80 - 88 %  
Exposure time: 28 d  
Remarks: Based on data from similar materials

## Bioaccumulative potential

### Ingredients:

#### **1-Methyl 4-(1-Methylethenyl) Cyclohexene:**

Partition coefficient: n-octanol/water : log Pow: 4.38

## Mobility in soil

No data available

## Other adverse effects

No data available

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## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : Dispose of in accordance with local regulations.



# GOJO® NATURAL\* ORANGE™ Pumice Hand Cleaner

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | MSDS Number: | Date of last issue: -           |
| 1.0     | 03/02/2015     | 68057-00001  | Date of first issue: 03/02/2015 |

Contaminated packaging : Dispose of as unused product.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.

## SECTION 14. TRANSPORT INFORMATION

### International Regulation

#### UNRTDG

UN number : UN 3082  
 Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
 (1-Methyl 4-(1-Methylethenyl) Cyclohexene)  
 Class : 9  
 Packing group : III  
 Labels : 9

#### IATA-DGR

UN/ID No. : UN 3082  
 Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.  
 (1-Methyl 4-(1-Methylethenyl) Cyclohexene)  
 Class : 9  
 Packing group : III  
 Labels : Miscellaneous  
 Packing instruction (cargo aircraft) : 964  
 Packing instruction (passenger aircraft) : 964

#### IMDG-Code

UN number : UN 3082  
 Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
 (1-Methyl 4-(1-Methylethenyl) Cyclohexene)  
 Class : 9  
 Packing group : III  
 Labels : 9  
 EmS Code : F-A, S-F  
 Marine pollutant : yes

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### Domestic regulation

#### 49 CFR

UN/ID/NA number : UN 3082  
 Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
 (1-Methyl 4-(1-Methylethenyl) Cyclohexene)  
 Class : 9



# GOJO® NATURAL\* ORANGE™ Pumice Hand Cleaner

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | MSDS Number: | Date of last issue: -           |
| 1.0     | 03/02/2015     | 68057-00001  | Date of first issue: 03/02/2015 |

|                  |   |
|------------------|---|
| Packing group    | : III   |
| Labels           | : CLASS 9   |
| ERG Code         | : 171   |
| Marine pollutant | : yes (1-Methyl 4-(1-Methylethenyl) Cyclohexene)  |
| Remarks          | : Shipment by ground under DOT is non-regulated; however it may be shipped per the applicable hazard classification to facilitate multi-modal transport involving ICAO (IATA) or IMO. |

## SECTION 15. REGULATORY INFORMATION

### EPCRA - Emergency Planning and Community Right-to-Know

#### CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** : Acute Health Hazard

**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### US State Regulations

#### Pennsylvania Right To Know

|  |           |           |
|--|-----------|-----------|
| Water                                    | 7732-18-5 | 70 - 90 % |
| Pumice                                   | 1332-09-8 | 5 - 10 %  |
| 1-Methyl 4-(1-Methylethenyl) Cyclohexene | 5989-27-5 | 5 - 10 %  |

#### New Jersey Right To Know

|  |            |           |
|--|------------|-----------|
| Water                                      | 7732-18-5  | 70 - 90 % |
| Pumice                                     | 1332-09-8  | 5 - 10 %  |
| 1-Methyl 4-(1-Methylethenyl) Cyclohexene   | 5989-27-5  | 5 - 10 %  |
| Alcohols, C12-15, ethoxylated propoxylated | 68551-13-3 | 1 - 5 %   |

**California Prop 65** This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

### The ingredients of this product are reported in the following inventories:

REACH : All ingredients (pre-)registered or exempt.

TSCA : All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory

**GOJO® NATURAL\* ORANGE™ Pumice Hand Cleaner**

Version 1.0      Revision Date: 03/02/2015      MSDS Number: 68057-00001      Date of last issue: -  
Date of first issue: 03/02/2015

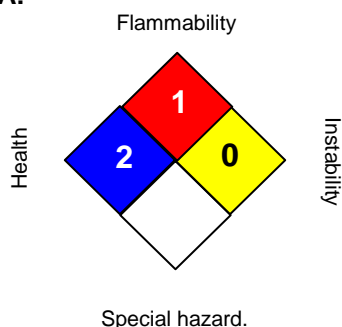
exemption.

DSL : All chemical substances in this product comply with the CEPA 1999 and NSNR and are on or exempt from listing on the Canadian Domestic Substances List (DSL).

AICS : All ingredients listed or exempt.

**Inventories**

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

**SECTION 16. OTHER INFORMATION**
**Further information**
**NFPA:**

**HMIS III:**

|                        |          |
|------------------------|----------|
| <b>HEALTH</b>          | <b>2</b> |
| <b>FLAMMABILITY</b>    | <b>1</b> |
| <b>PHYSICAL HAZARD</b> | <b>0</b> |

0 = not significant, 1 = Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

Sources of key data used to compile the Material Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

Revision Date : 03/02/2015

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

US / Z8


**GOJO® NATURAL\* ORANGE™ Pumice Hand Cleaner**

Version 1.0

SDS Number: 400000005275

Revision Date: 10/19/2016

**SECTION 1. IDENTIFICATION**

Product name : GOJO® NATURAL\* ORANGE™ Pumice Hand Cleaner

**Manufacturer or supplier's details**

Company name of supplier : GOJO Industries, Inc.

Address : One GOJO Plaza, Suite 500  
Akron, Ohio 44311

Telephone : 1 (330) 255-6000

Emergency telephone number : 1-800-424-9300 CHEMTREC

**Recommended use of the chemical and restrictions on use**

Recommended use : Skin-care

Restrictions on use : This is a personal care or cosmetic product that is safe for consumers and other users under normal and reasonably foreseeable use. Cosmetics and consumer products, specifically defined by regulations around the world, are exempt from the requirement of an SDS for the consumer. While this material is not considered hazardous, this SDS contains valuable information critical to the safe handling and proper use of the product for industrial workplace conditions as well as unusual and unintended exposures such as large spills. This SDS should be retained and available for employees and other users of this product. For specific intended-use guidance, please refer to the information provided on the package or instruction sheet.

**SECTION 2. HAZARDS IDENTIFICATION**
**GHS Classification**

Not a hazardous substance or mixture.

**GHS label elements**

Not a hazardous substance or mixture.

**Other hazards**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**
**Hazardous components**

| Chemical name         | CAS-No.    | Concentration (%) |
|-----------------------|------------|-------------------|
| Petroleum Distillates | 64742-47-8 | >= 5 - < 10       |
| Limonene              | 5989-27-5  | >= 0.1 - < 1      |


**GOJO® NATURAL\* ORANGE™ Pumice Hand Cleaner**

Version 1.0

SDS Number: 400000005275

Revision Date: 10/19/2016

**SECTION 4. FIRST AID MEASURES**

- General advice : In the case of accident or if you feel unwell, seek medical advice immediately.  
When symptoms persist or in all cases of doubt seek medical advice.
- If inhaled : If inhaled, remove to fresh air.  
If symptoms persist, call a physician.
- In case of skin contact : Wash with water and soap as a precaution.  
Get medical attention if irritation develops and persists.
- In case of eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.  
If easy to do, remove contact lens, if worn.  
Seek medical advice.
- If swallowed : If swallowed, DO NOT induce vomiting.  
Rinse mouth with water.  
Obtain medical attention.
- Most important symptoms and effects, both acute and delayed : None known.
- Protection of first-aiders : First Aid responders should pay attention to self-protection and use the recommended protective clothing

**SECTION 5. FIREFIGHTING MEASURES**

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Unsuitable extinguishing media : None known.
- Hazardous combustion products : Carbon oxides
- Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Use water spray to cool unopened containers.
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.


**GOJO® NATURAL\* ORANGE™ Pumice Hand Cleaner**

Version 1.0

SDS Number: 400000005275

Revision Date: 10/19/2016

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Ensure adequate ventilation.  
Evacuate personnel to safe areas.  
Material can create slippery conditions.
- Environmental precautions : Discharge into the environment must be avoided.  
Prevent further leakage or spillage if safe to do so.  
Prevent spreading over a wide area (e.g. by containment or oil barriers).  
Retain and dispose of contaminated wash water.  
Local authorities should be advised if significant spillages cannot be contained.
- Methods and materials for containment and cleaning up : Keep in suitable, closed containers for disposal.  
Clean contaminated floors and objects thoroughly while observing environmental regulations.

**SECTION 7. HANDLING AND STORAGE**

- Advice on safe handling : For personal protection see section 8.  
Do not swallow.  
Avoid contact with eyes.  
Keep container closed when not in use.
- Conditions for safe storage : Keep in properly labelled containers.  
Keep container tightly closed in a dry and well-ventilated place.  
Store in accordance with the particular national regulations.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**
**Components with workplace control parameters**

| Components            | CAS-No.    | Value type<br>(Form of exposure) | Control parameters / Permissible concentration        | Basis     |
|-----------------------|------------|----------------------------------|---|-----------|
| Petroleum Distillates | 64742-47-8 | TWA (Mist)                       | 5 mg/m <sup>3</sup>                                   | OSHA Z-1  |
|                       |            | TWA                              | 200 mg/m <sup>3</sup><br>(as total hydrocarbon vapor) | ACGIH     |
|                       |            | TWA (Mist)                       | 5 mg/m <sup>3</sup>                                   | NIOSH REL |
|                       |            | ST (Mist)                        | 10 mg/m <sup>3</sup>                                  | NIOSH REL |
| Limonene              | 5989-27-5  | TWA                              | 20 ppm  | ACGIH     |

**Personal protective equipment**

- Respiratory protection : No personal respiratory protective equipment normally required.
- Eye protection : No special protective equipment required.  
Wear face-shield and protective suit for abnormal processing




**GOJO® NATURAL\* ORANGE™ Pumice Hand Cleaner**

Version 1.0

SDS Number: 400000005275

Revision Date: 10/19/2016

problems.

- Skin and body protection : No special protective equipment required.
- Protective measures : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.  
Avoid contact with eyes.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance : liquid
- Colour : grey, opaque
- Odour : citrus
- Odour Threshold : No data available
- pH : 6.0 - 8.0, (20 °C)
- Solidification / Setting point : 11.4 °C
- Initial boiling point and boiling range : 98.00 °C
- Flash point : > 100 °C
- Evaporation rate : No data available
- Upper explosion limit : No data available
- Lower explosion limit : No data available
- Vapour pressure : No data available
- Relative vapour density : No data available
- Density : 1.0328 g/cm<sup>3</sup>
- Solubility(ies)  
Water solubility : soluble
- Partition coefficient: n-octanol/water : Not applicable
- Auto-ignition temperature : No data available
- Thermal decomposition : The substance or mixture is not classified self-reactive.
- Viscosity  
Viscosity, kinematic : 10000 - 50000 mm<sup>2</sup>/s (20 °C)


**GOJO® NATURAL\* ORANGE™ Pumice Hand Cleaner**

Version 1.0

SDS Number: 400000005275

Revision Date: 10/19/2016

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity : Not classified as a reactivity hazard.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : No dangerous reaction known under conditions of normal use.

Incompatible materials : Oxidizing agents

Hazardous decomposition products : No hazardous decomposition products are known.

**SECTION 11. TOXICOLOGICAL INFORMATION**
**Information on likely routes of exposure**

Inhalation  
 Eye contact  
 Skin contact

**Acute toxicity**

Not classified based on available information.

**Components:**
**Petroleum Distillates:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 5.3 mg/l  
 Exposure time: 4 h  
 Test atmosphere: dust/mist  
 Assessment: The substance or mixture has no acute inhalation toxicity  
 Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rabbit): > 3,160 mg/kg  
 Assessment: The substance or mixture has no acute dermal toxicity

**Limonene:**

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg  
 Assessment: The substance or mixture has no acute oral toxicity  
 Remarks: Based on data from similar materials

**Skin corrosion/irritation**

Not classified based on available information.

**GOJO® NATURAL\* ORANGE™ Pumice Hand Cleaner**

Version 1.0

SDS Number: 400000005275

Revision Date: 10/19/2016

**Components:****Petroleum Distillates:**

Assessment: Repeated exposure may cause skin dryness or cracking.

**Limonene:**

Species: Rabbit

Result: Skin irritation

**Serious eye damage/eye irritation**

Not classified based on available information.

**Components:****Petroleum Distillates:**

Species: Rabbit

Result: No eye irritation

**Limonene:**

Species: Rabbit

Result: No eye irritation

**Respiratory or skin sensitisation**

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

**Product:**

Assessment: Does not cause skin sensitisation.

**Components:****Petroleum Distillates:**

Test Type: Maximisation Test (GPMT)

Exposure routes: Skin contact

Species: Guinea pig

Result: negative

Remarks: Based on data from similar materials

**Limonene:**

Test Type: Local lymph node assay (LLNA)

Exposure routes: Skin contact

Species: Mouse

Result: positive

Assessment: Probability or evidence of skin sensitisation in humans

**Germ cell mutagenicity**

Not classified based on available information.

**Components:****Petroleum Distillates:**Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Result: negativeGenotoxicity in vivo : Test Type: Chromosomal aberration  
Test species: Rat  
Application Route: Intraperitoneal injection


**GOJO® NATURAL\* ORANGE™ Pumice Hand Cleaner**

Version 1.0

SDS Number: 400000005275

Revision Date: 10/19/2016

Result: negative  
 Remarks: Based on data from similar materials

**Limonene:**

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test  
 Result: negative

Genotoxicity in vivo : Test Type: Transgenic rodent somatic cell gene mutation assay  
 Test species: Rat  
 Application Route: Ingestion  
 Result: negative

**Carcinogenicity**

Not classified based on available information.

**Components:****Limonene:**

Species: Mouse  
 Application Route: Ingestion  
 Exposure time: 103 weeks  
 Result: negative

**IARC**

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA**

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**NTP**

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**Reproductive toxicity**

Not classified based on available information.

**Components:****Petroleum Distillates:**

Effects on fertility : Test Type: One-generation reproduction toxicity study  
 Species: Rat  
 Application Route: Ingestion  
 Result: negative  
 Remarks: Based on data from similar materials

Effects on foetal development : Test Type: Embryo-foetal development  
 Species: Rat  
 Application Route: Ingestion  
 Result: negative

**STOT - single exposure**

Not classified based on available information.


**GOJO® NATURAL\* ORANGE™ Pumice Hand Cleaner**

Version 1.0

SDS Number: 400000005275

Revision Date: 10/19/2016

**STOT - repeated exposure**

Not classified based on available information.

**Repeated dose toxicity****Components:****Petroleum Distillates:**

Species: Rat

NOAEL: &gt; 10.4 mg/l

Application Route: inhalation (vapour)

Exposure time: 90 d

Remarks: Based on data from similar materials

**Limonene:**

Species: Rat

NOAEL: 600 mg/kg

Application Route: Ingestion

Exposure time: 13 w

**Aspiration toxicity**

Not classified based on available information.

**Components:****Petroleum Distillates:**

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

**Limonene:**

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

---

**SECTION 12. ECOLOGICAL INFORMATION**
**Ecotoxicity****Components:****Petroleum Distillates:**

- |   |  |
|---|--|
| Toxicity to fish                                    | : LL50 (Danio rerio (zebra fish)): > 250 mg/l<br>Exposure time: 96 h<br>Test substance: Water Accommodated Fraction<br>Method: OECD Test Guideline 203 |
| Toxicity to daphnia and other aquatic invertebrates | : EL50 (Acartia tonsa): > 3,193 mg/l<br>Exposure time: 48 h<br>Test substance: Water Accommodated Fraction   |
| Toxicity to algae                                   | : EL50 (Skeletonema costatum (marine diatom)): > 3,200 mg/l<br>Exposure time: 72 h<br>Test substance: Water Accommodated Fraction                      |
|   | NOELR (Skeletonema costatum (marine diatom)): 993 mg/l<br>Exposure time: 72 h<br>Test substance: Water Accommodated Fraction                           |


**GOJO® NATURAL\* ORANGE™ Pumice Hand Cleaner**

Version 1.0

SDS Number: 400000005275

Revision Date: 10/19/2016

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOELR (Ceriodaphnia Dubia (water flea)): > 70 mg/l  
Exposure time: 8 d  
Test substance: Water Accommodated Fraction

Toxicity to bacteria : EC50: > 100 mg/l  
Exposure time: 3 h

**Limonene:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 0.72 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.36 mg/l  
Exposure time: 48 h

Toxicity to algae : ErC50 (Desmodesmus subspicatus (green algae)): 150 mg/l  
Exposure time: 72 h  
Test substance: Water Accommodated Fraction  
Remarks: Based on data from similar materials

M-Factor (Acute aquatic toxicity) : 1

**Persistence and degradability****Components:****Petroleum Distillates:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 82 %  
Exposure time: 24 d  
Method: OECD Test Guideline 301F

**Limonene:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 80 %  
Exposure time: 28 d  
Remarks: Based on data from similar materials

**Bioaccumulative potential****Components:****Limonene:**

Partition coefficient: n-octanol/water : log Pow: 4.38

**Mobility in soil**

No data available

**Other adverse effects**

No data available

**Product:**

Regulation : 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances

Remarks : This product neither contains, nor was manufactured with a

**GOJO® NATURAL\* ORANGE™ Pumice Hand Cleaner**

Version 1.0

SDS Number: 400000005275

Revision Date: 10/19/2016

Class I or Class II ODS as defined by the U.S. Clean Air Act  
Section 602 (40 CFR 82, Subpt. A, App.A + B).

**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

- Waste from residues : Dispose of in accordance with local regulations.
- Contaminated packaging : Dispose of as unused product.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.

**SECTION 14. TRANSPORT INFORMATION****International Regulation****IATA-DGR**

Not regulated as a dangerous good

**IMDG-Code**

Not regulated as a dangerous good

**National Regulations****49 CFR**

Not regulated as a dangerous good

**SECTION 15. REGULATORY INFORMATION****EPCRA - Emergency Planning and Community Right-to-Know Act****CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** : No SARA Hazards

**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**Clean Air Act**

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489).


**GOJO® NATURAL\* ORANGE™ Pumice Hand Cleaner**

Version 1.0

SDS Number: 400000005275

Revision Date: 10/19/2016

This product does not contain any VOC exemptions listed under the U.S. Clean Air Act Section 450.

**Clean Water Act**

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

**US State Regulations**
**Massachusetts Right To Know**

|                       |            |          |
|-----------------------|------------|----------|
| Petroleum Distillates | 64742-47-8 | 5 - 10 % |
|-----------------------|------------|----------|

**Pennsylvania Right To Know**

|                       |            |           |
|-----------------------|------------|-----------|
| Water (Aqua)          | 7732-18-5  | 70 - 90 % |
| Pumice                | 1332-09-8  | 5 - 10 %  |
| Petroleum Distillates | 64742-47-8 | 5 - 10 %  |

**New Jersey Right To Know**

|                       |            |           |
|-----------------------|------------|-----------|
| Water (Aqua)          | 7732-18-5  | 70 - 90 % |
| Pumice                | 1332-09-8  | 5 - 10 %  |
| Petroleum Distillates | 64742-47-8 | 5 - 10 %  |

**California Prop 65**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**The components of this product are reported in the following inventories:**

|        |   |
|--------|---|
| TSCA   | : On TSCA Inventory                                       |
| CH INV | : On the inventory, or in compliance with the inventory   |
| AICS   | : On the inventory, or in compliance with the inventory   |
| DSL    | : All components of this product are on the Canadian DSL. |
| PICCS  | : On the inventory, or in compliance with the inventory   |
| ENCS   | : On the inventory, or in compliance with the inventory   |
| IECSC  | : On the inventory, or in compliance with the inventory   |
| ISHL   | : On the inventory, or in compliance with the inventory   |
| NZIoC  | : On the inventory, or in compliance with the inventory   |
| KECI   | : On the inventory, or in compliance with the inventory   |

**Inventories**

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

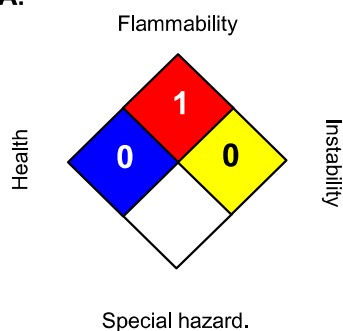


**GOJO® NATURAL\* ORANGE™ Pumice Hand Cleaner**

Version 1.0

SDS Number: 400000005275

Revision Date: 10/19/2016

**SECTION 16. OTHER INFORMATION**
**Further information**
**NFPA:**

**HMIS III:**

|                        |          |
|------------------------|----------|
| <b>HEALTH</b>          | <b>0</b> |
| <b>FLAMMABILITY</b>    | <b>1</b> |
| <b>PHYSICAL HAZARD</b> | <b>0</b> |

0 = not significant, 1 = Slight,  
 2 = Moderate, 3 = High  
 4 = Extreme, \* = Chronic

Revision Date : 10/19/2016

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# SAFETY DATA SHEET

## GOLDENGLASS 374

### SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product:** Goldenglass Gold Acrylic Coated Fiberglass  
**Chemical Name & Synonym:** Fiberglass  
**Chemical Family:** Fiberglass, continuous filament  
**Company:** Steiner Industries  
**Address:** 5801 N. Tripp Avenue, Chicago, IL 60646  
**Emergency Telephone:** 773-588-3444  
**Fax:** 773-588-3450  
**Recommended Use:** Medium duty protection from sparks and spatter in welding and cutting operations.

### SECTION 2: HAZARDS IDENTIFICATION

**Primary Routes of Entry:** Skin  Eye  Ingestion  Inhalation  None  
**Signs & Symptoms of Exposure:** **Acute:** Yes **Chronic:** None known  
**Inhalation (Breathing):** Inhalation of dusts and fibers may result in irritation of the upper respiratory tract (mouth, nose and throat.)  
**Eyes:** N/A  
**Skin (Dermal):** Skin contact with fibers and dust may produce temporary mechanical irritations.  
**Ingestion:** Temporary mechanical irritations of the digestive tract. Observe individual. If symptoms develop, consult a physician  
**Medical Conditions Aggravated:** N/A

### SECTION 3: COMPOSITION OF HAZARDOUS INGREDIENTS

#### CHEMICAL NAME/SYNONYM(S)

Fiberglass, continuous filament

### SECTION 4: FIRST AID MEASURES

**Emergency and First Aid Procedures:** These products have no significant toxic hazard  
**Eyes:** Flush eyes with flowing water for at least 15 minutes.  
Seek medical attention if irritation persists.  
**Skin (Dermal):** Wash with mild soap and running water. Use a washcloth to help remove fibers. Rubbing or scratching may force fibers into the skin. Seek medical attention if irritation persists.  
**Ingestion:** N/A  
**Inhalation (Breathing):** Move individual to fresh air. Seek medical attention if irritation persists.

## SECTION 5: FIRE FIGHTING MEASURES

**Extinguishing Media:** Dry Chemical X Water Spray X CO<sub>2</sub> X  
**Special Fire Fighting Procedures:** In sustained fire, self-contained breathing apparatus should be worn.  
**Unusual Fire & Explosion Hazards:** None known

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**If Material is Spilled:** For sold product no applicable. For dusts and fibers generated during fabrication, vacuum up and containerize.

## SECTION 7: HANDLING & STORAGE

**Handling:** Avoid formation of dust  
**Storage:** Store in a dry place

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Limits:** Avoid unnecessary exposure to dusts and fibers.  
**Work Practices:** Keep work area clean of any dust and fibers. Avoid sweeping or using compressed air as these techniques re-suspend dust and fibers into air.  
**Personal Protective Equipment:** None  
**Hygiene Practices:** Remove fibers from skin after exposure. Be careful not to bur or scratch irritated areas. Rubbing or scratching may force the fibers into the skin. The fibers should be washed off. Use of barrier creams can, in some instances, be helpful.

## SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

**Specific Gravity:** 2.59  
**Solubility in Water:** Insoluble.  
**pH:** Not applicable.

## SECTION 10: STABILITY & REACTIVITY

**Stability:** Material is stable.  
**Hazardous Decomposition Products:** Not determined.  
**Hazardous Polymerization:** Will not occur.  
**Incompatibility:** Not determined.

## SECTION 11: TOXICOLOGICAL INFORMATION

**Toxicity Data:** Direct Contact with fiberglass materials or exposure to airborne fiberglass dust may irritate the skin, eyes, nose and throat. Fiberglass can cause itching due to mechanical irritation from the fibers. This is not an allergic reaction to the material. Breathing fibers may irritate the airways resulting in coughing and scratchy throat. Some people are sensitive to the fibers, while others are not.

**Positive Teratogen/Mutagen/Carcinogen (NTP):** No.  
**Potential Carcinogen OSHA/IARC:** No.

**SECTION 12: ECOLOGICAL INFORMATION**

Toxic to: Fish \_\_\_ Birds \_\_\_ Wildlife \_\_\_ Other: Not determined.

**SECTION 13: DISPOSAL CONSIDERATIONS**

Waste Disposal Method(s): Offer surplus and non-recyclable solution to a licensed disposal company.

**SECTION 14: TRANSPORTATION INFORMATION DOT Shipping Information**

DOT Transportation (49 CFR 172.101): The textile fabric is not regulated as a hazardous material.

**SECTION 15: TRANSPORTATION INFORMATION DOT Shipping Information**

SARA Information: SARA TITLE III SECTION 311/312 HAZARD CATEGORIES

|                          |          |                            |               |
|--------------------------|----------|----------------------------|---------------|
| Immediate (Acute) Health | <u>N</u> | Sudden Release of Pressure | <u>N</u>      |
| Delayed (Chronic) Health | <u>N</u> | Reactivity <u>N</u>        | Fire <u>N</u> |

**SECTION 16: OTHER INFORMATION**

The above information is believed to be accurate based on the most current data available. Steiner Industries makes no warranty, either expressed or implied, with respect to such information, and assumes no liability resulting from its use. Users are advised to conduct their own tests to determine the safety and suitability of each product or products combination for their own purpose. Steiner Industries shall not be liable for any claims, losses, or damages of any third party or for lost profits or incidental or consequential damages, howsoever arising even if Steiner Industries has been advised of the possibility of such damages.

\*\*The information herein is given in good faith, but no warranty, expressed or implied is made and we assume no liability from its use. Users should make their own investigations to determine the suitability of the information for their particular purpose.



# SAFETY DATA SHEET

## 1. Identification

|   |  |
|---|--|
| <b>Product identifier</b>                                     | <b>Heavy Duty Degreaser</b>              |
| <b>Other means of identification</b>                          |  |
| <b>Product Code</b>   | No. 03097 (Item# 1003369)                |
| <b>Recommended use</b>  | Heavy duty degreaser                     |
| <b>Recommended restrictions</b>                               | None known.                              |
| <b>Manufacturer/Importer/Supplier/Distributor information</b> |  |
| <b>Manufactured or sold by:</b>                               |  |
| <b>Company name</b>   | CRC Industries, Inc.                     |
| <b>Address</b>  | 885 Louis Dr.<br>Warminster, PA 18974 US |
| <b>Telephone</b>  |  |
| <b>General Information</b>                                    | 215-674-4300                             |
| <b>Technical Assistance</b>                                   | 800-521-3168                             |
| <b>Customer Service</b>                                       | 800-272-4620                             |
| <b>24-Hour Emergency</b>                                      | 800-424-9300 (US)                        |
| <b>(CHEMTREC)</b>   | 703-527-3887 (International)             |
| <b>Website</b>  | www.crcindustries.com                    |

## 2. Hazard(s) identification

|                              |  |                             |
|------------------------------|--|-----------------------------|
| <b>Physical hazards</b>      | Not classified.  |                             |
| <b>Health hazards</b>        | Skin corrosion/irritation                              | Category 2                  |
|                              | Serious eye damage/eye irritation                      | Category 2B                 |
|                              | Sensitization, skin                                    | Category 1B                 |
|                              | Carcinogenicity  | Category 1B                 |
|                              | Specific target organ toxicity, single exposure        | Category 3 narcotic effects |
| <b>Environmental hazards</b> | Hazardous to the aquatic environment, acute hazard     | Category 2                  |
|                              | Hazardous to the aquatic environment, long-term hazard | Category 2                  |
| <b>OSHA defined hazards</b>  | Not classified.  |                             |
| <b>Label elements</b>        |  |                             |



|                                |   |
|--------------------------------|---|
| <b>Signal word</b>             | Danger  |
| <b>Hazard statement</b>        | Causes skin irritation. May cause an allergic skin reaction. Causes eye irritation. May cause drowsiness or dizziness. May cause cancer. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.  |
| <b>Precautionary statement</b> |   |
| <b>Prevention</b>              | Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use with adequate ventilation. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying. If you experience any symptoms listed on this label, increase ventilation or leave the area. Avoid breathing mist or vapor. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. Avoid release to the environment. |

|  |  |
|--|--|
| <b>Response</b>                                  | If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If exposed or concerned: Get medical advice/attention. Collect spillage. |
| <b>Storage</b>                                   | Store in a well-ventilated place. Keep container tightly closed. Store locked up.  |
| <b>Disposal</b>                                  | Dispose of contents/container in accordance with local/regional/national regulations.  |
| <b>Hazard(s) not otherwise classified (HNOC)</b> | None known.  |
| <b>Supplemental information</b>                  | When exposed to extreme heat or hot surfaces, vapors may decompose to harmful or fatal corrosive gases such as hydrogen fluoride, hydrogen chloride, and possibly phosgene.  |

### 3. Composition/information on ingredients

#### Mixtures

| Chemical name              | Common name and synonyms | CAS number | %        |
|----------------------------|--------------------------|------------|----------|
| tetrachloroethylene        | perchloroethylene        | 127-18-4   | 90 - 100 |
| trans-1,2-dichloroethylene |                          | 156-60-5   | 5 - 10   |

Specific chemical identity and/or percentage of composition has been withheld as a trade secret.

### 4. First-aid measures

|   |  |
|---|--|
| <b>Inhalation</b>   | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.  |
| <b>Skin contact</b>   | Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse.  |
| <b>Eye contact</b>  | Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.  |
| <b>Ingestion</b>  | Rinse mouth. Get medical attention if symptoms occur.  |
| <b>Most important symptoms/effects, acute and delayed</b>                     | May cause drowsiness and dizziness. Headache. Nausea, vomiting. Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash. |
| <b>Indication of immediate medical attention and special treatment needed</b> | Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.   |
| <b>General information</b>  | IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.   |

### 5. Fire-fighting measures

|  |   |
|--|---|
| <b>Suitable extinguishing media</b>                                  | Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).   |
| <b>Unsuitable extinguishing media</b>                                | Do not use water jet as an extinguisher, as this will spread the fire.  |
| <b>Specific hazards arising from the chemical</b>                    | During fire, gases hazardous to health may be formed. When exposed to extreme heat or hot surfaces, vapors may decompose to harmful or fatal corrosive gases such as hydrogen fluoride, hydrogen chloride, and possibly phosgene. |
| <b>Special protective equipment and precautions for firefighters</b> | Self-contained breathing apparatus and full protective clothing must be worn in case of fire.   |
| <b>Fire fighting equipment/instructions</b>                          | Move containers from fire area if you can do so without risk.   |
| <b>General fire hazards</b>  | No unusual fire or explosion hazards noted.   |

### 6. Accidental release measures

|  |   |
|--|---|
| <b>Personal precautions, protective equipment and emergency procedures</b> | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS. |
|--|---|

**Methods and materials for containment and cleaning up**

This product is miscible in water. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.

**Environmental precautions**

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

**7. Handling and storage****Precautions for safe handling**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices. For product usage instructions, see the product label.

**Conditions for safe storage, including any incompatibilities**

Store in a cool, dry place out of direct sunlight. Keep container tightly closed. Store away from incompatible materials (see Section 10 of the SDS).

**8. Exposure controls/personal protection****Occupational exposure limits**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

| Components                                | Type | Value                 |
|---|------|-----------------------|
| trans-1,2-dichloroethylene (CAS 156-60-5) | PEL  | 790 mg/m <sup>3</sup> |
|   |      | 200 ppm               |

**US. OSHA Table Z-2 (29 CFR 1910.1000)**

| Components                         | Type    | Value   |
|------------------------------------|---------|---------|
| tetrachloroethylene (CAS 127-18-4) | Ceiling | 200 ppm |
|                                    | TWA     | 100 ppm |

**US. ACGIH Threshold Limit Values**

| Components                                | Type | Value   |
|---|------|---------|
| tetrachloroethylene (CAS 127-18-4)        | STEL | 100 ppm |
|   | TWA  | 25 ppm  |
| trans-1,2-dichloroethylene (CAS 156-60-5) | TWA  | 200 ppm |

**US. NIOSH: Pocket Guide to Chemical Hazards**

| Components                                | Type | Value                 |
|---|------|-----------------------|
| trans-1,2-dichloroethylene (CAS 156-60-5) | TWA  | 790 mg/m <sup>3</sup> |
|   |      | 200 ppm               |

**Biological limit values****ACGIH Biological Exposure Indices**

| Components                         | Value    | Determinant         | Specimen        | Sampling Time |
|------------------------------------|----------|---------------------|-----------------|---------------|
| tetrachloroethylene (CAS 127-18-4) | 0.5 mg/l | Tetrachloroethylene | Blood           | *             |
|                                    | 3 ppm    | Tetrachloroethylene | End-exhaled air | *             |

\* - For sampling details, please see the source document.

## Exposure guidelines

### US - Minnesota Haz Subs: Skin designation applies

tetrachloroethylene (CAS 127-18-4)

Skin designation applies.

### Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash fountain and emergency showers are recommended.

### Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

#### Skin protection

##### Hand protection

Wear protective gloves such as: Polyvinyl alcohol (PVA). Viton/butyl.

##### Other

Wear appropriate chemical resistant clothing.

#### Respiratory protection

If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies. Air monitoring is needed to determine actual employee exposure levels.

#### Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

### General hygiene considerations

Observe any medical surveillance requirements. When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

---

## 9. Physical and chemical properties

### Appearance

**Physical state** Liquid.

**Form** Liquid.

**Color** Colorless.

**Odor** Solvent.

**Odor threshold** Not available.

**pH** Not available.

**Melting point/freezing point** -119.2 °F (-84 °C) estimated

**Initial boiling point and boiling range** 119.7 °F (48.7 °C) estimated

**Flash point** None (Tag Closed Cup)

**Evaporation rate** Fast.

**Flammability (solid, gas)** Not available.

### Upper/lower flammability or explosive limits

**Flammability limit - lower (%)** 6.7 % estimated

**Flammability limit - upper (%)** 18 % estimated

**Vapor pressure** 57.7 hPa estimated

**Vapor density** > 4 (air = 1)

**Relative density** 1.58

### Solubility(ies)

**Solubility (water)** Slight.

**Partition coefficient (n-octanol/water)** Not available.

**Auto-ignition temperature** 860 °F (460 °C) estimated

**Decomposition temperature** Not available.

**Percent volatile** 100 % estimated

---

## 10. Stability and reactivity

**Reactivity** The product is stable and non-reactive under normal conditions of use, storage and transport.



|   |   |
|---|---|
| <b>Chemical stability</b>                 | Material is stable under normal conditions.   |
| <b>Possibility of hazardous reactions</b> | No dangerous reaction known under conditions of normal use.   |
| <b>Conditions to avoid</b>                | Heat, flames and sparks. Contact with incompatible materials. When exposed to extreme heat or hot surfaces, vapors may decompose to harmful or fatal corrosive gases such as hydrogen fluoride, hydrogen chloride, and possibly phosgene. |
| <b>Incompatible materials</b>             | Strong oxidizing agents.  |
| <b>Hazardous decomposition products</b>   | Hydrogen chloride. Hydrogen fluoride. Phosgene. Carbon oxides.  |

## 11. Toxicological information

### Information on likely routes of exposure

|                     |  |
|---------------------|--|
| <b>Inhalation</b>   | May cause drowsiness and dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be harmful.             |
| <b>Skin contact</b> | Causes skin irritation. May cause an allergic skin reaction.   |
| <b>Eye contact</b>  | Causes eye irritation.   |
| <b>Ingestion</b>    | Ingestion of large amounts may produce gastrointestinal disturbances including irritation, nausea, and diarrhea. |

**Symptoms related to the physical, chemical and toxicological characteristics** May cause drowsiness and dizziness. Headache. Nausea, vomiting. Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

### Information on toxicological effects

**Acute toxicity** Not known.

| Components                                | Species | Test Results                    |
|---|---------|---------------------------------|
| decafluoropentane (CAS 138495-42-8)       |         |                                 |
| <b>Acute</b>                              |         |                                 |
| <b>Dermal</b>                             |         |                                 |
| LD50                                      | Rabbit  | > 5000 mg/kg                    |
| <b>Inhalation</b>                         |         |                                 |
| LC50                                      | Rat     | 11058 mg/kg, 4 hours calculated |
| <b>Oral</b>                               |         |                                 |
| LD50                                      | Rat     | > 5000 mg/kg                    |
| tetrachloroethylene (CAS 127-18-4)        |         |                                 |
| <b>Acute</b>                              |         |                                 |
| <b>Dermal</b>                             |         |                                 |
| LD50                                      | Rabbit  | > 3228 mg/kg                    |
| <b>Oral</b>                               |         |                                 |
| LD50                                      | Rat     | 2629 mg/kg                      |
| trans-1,2-dichloroethylene (CAS 156-60-5) |         |                                 |
| <b>Acute</b>                              |         |                                 |
| <b>Oral</b>                               |         |                                 |
| LD50                                      | Rat     | 1235 mg/kg                      |

\* Estimates for product may be based on additional component data not shown.

|  |  |
|--|--|
| <b>Skin corrosion/irritation</b>         | Causes skin irritation.  |
| <b>Serious eye damage/eye irritation</b> | Causes eye irritation.   |
| <b>Respiratory or skin sensitization</b> |  |
| <b>Respiratory sensitization</b>         | Not a respiratory sensitizer.  |
| <b>Skin sensitization</b>                | May cause an allergic skin reaction.   |
| <b>Germ cell mutagenicity</b>            | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. |
| <b>Carcinogenicity</b>                   | May cause cancer.  |

**IARC Monographs. Overall Evaluation of Carcinogenicity**

tetrachloroethylene (CAS 127-18-4)

2A Probably carcinogenic to humans.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)**

Not regulated.

**US. National Toxicology Program (NTP) Report on Carcinogens**

tetrachloroethylene (CAS 127-18-4)

Reasonably Anticipated to be a Human Carcinogen.

|   |  |
|---|--|
| <b>Reproductive toxicity</b>                              | This product is not expected to cause reproductive or developmental effects.                   |
| <b>Specific target organ toxicity - single exposure</b>   | May cause drowsiness and dizziness.  |
| <b>Specific target organ toxicity - repeated exposure</b> | Not classified.  |
| <b>Aspiration hazard</b>                                  | Based on available data, the classification criteria are not met. May be an aspiration hazard. |
| <b>Chronic effects</b>                                    | Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.             |

**12. Ecological information****Ecotoxicity** Toxic to aquatic life with long lasting effects.

| Components                                | Species | Test Results  |
|---|---------|---|
| tetrachloroethylene (CAS 127-18-4)        |         |   |
| <b>Aquatic</b>                            |         |   |
| Fish                                      | LC50    | Rainbow trout,donaldson trout (Oncorhynchus mykiss) |
|   |         | 4.73 - 5.27 mg/l, 96 hours                          |
| trans-1,2-dichloroethylene (CAS 156-60-5) |         |   |
| <b>Aquatic</b>                            |         |   |
| Fish                                      | LC50    | Bluegill (Lepomis macrochirus)                      |
|   |         | 120 - 160 mg/l, 96 hours                            |
| <i>Acute</i>                              |         |   |
| Crustacea                                 | EC50    | Water flea (Daphnia magna)                          |
|   |         | 220 mg/l, 48 hours                                  |

**Persistence and degradability** No data is available on the degradability of any ingredients in the mixture.**Bioaccumulative potential****Partition coefficient n-octanol / water (log Kow)**

|                            |      |
|----------------------------|------|
| tetrachloroethylene        | 2.88 |
| trans-1,2-dichloroethylene | 2.06 |

**Mobility in soil** No data available.**Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.**13. Disposal considerations****Disposal instructions** This material and its container must be disposed of as hazardous waste. Consult authorities before disposal. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose in accordance with all applicable regulations.**Hazardous waste code**  
D039: Waste Tetrachloroethylene  
F001: Waste Halogenated Solvent - Spent Halogenated Solvent Used in Degreasing  
F002: Waste Halogenated Solvent - Spent Halogenated Solvent**US RCRA Hazardous Waste U List: Reference**

tetrachloroethylene (CAS 127-18-4)

U210

**Contaminated packaging** Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.**14. Transport information****DOT**

|                                   |  |
|-----------------------------------|--|
| <b>UN number</b>                  | UN1897   |
| <b>UN proper shipping name</b>    | Tetrachloroethylene mixture (tetrachloroethylene RQ = 111 LBS), MARINE POLLUTANT |
| <b>Transport hazard class(es)</b> |  |
| <b>Class</b>                      | 6.1(PGIII)   |
| <b>Subsidiary risk</b>            | -  |
| <b>Label(s)</b>                   | 6.1  |

|                                     |   |
|-------------------------------------|---|
| <b>Packing group</b>                | III   |
| <b>Environmental hazards</b>        |   |
| <b>Marine pollutant</b>             | Yes   |
| <b>Special precautions for user</b> | Read safety instructions, SDS and emergency procedures before handling. |
| <b>Special provisions</b>           | IB3, N36, T4, TP1   |
| <b>Packaging exceptions</b>         | 153   |
| <b>Packaging non bulk</b>           | 203   |
| <b>Packaging bulk</b>               | 241   |

#### IATA

|                                     |   |
|-------------------------------------|---|
| <b>UN number</b>                    | UN1897  |
| <b>UN proper shipping name</b>      | Tetrachloroethylene mixture   |
| <b>Transport hazard class(es)</b>   |   |
| <b>Class</b>                        | 6.1(PGIII)  |
| <b>Subsidiary risk</b>              | -   |
| <b>Packing group</b>                | III   |
| <b>ERG Code</b>                     | 6L  |
| <b>Special precautions for user</b> | Read safety instructions, SDS and emergency procedures before handling. |
| <b>Other information</b>            |   |
| <b>Passenger and cargo aircraft</b> | Allowed with restrictions.  |
| <b>Cargo aircraft only</b>          | Allowed with restrictions.  |

#### IMDG

|                                     |   |
|-------------------------------------|---|
| <b>UN number</b>                    | UN1897  |
| <b>UN proper shipping name</b>      | TETRACHLOROETHYLENE MIXTURE, MARINE POLLUTANT                           |
| <b>Transport hazard class(es)</b>   |   |
| <b>Class</b>                        | 6.1(PGIII)  |
| <b>Subsidiary risk</b>              | -   |
| <b>Packing group</b>                | III   |
| <b>Environmental hazards</b>        |   |
| <b>Marine pollutant</b>             | Yes   |
| <b>EmS</b>                          | F-A, S-A  |
| <b>Special precautions for user</b> | Read safety instructions, SDS and emergency procedures before handling. |

## 15. Regulatory information

**US federal regulations** All components are on the U.S. EPA TSCA Inventory List. This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

decafluoropentane (CAS 138495-42-8) 1.0 % One-Time Export Notification only.

#### SARA 304 Emergency release notification

Not regulated.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

#### US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

tetrachloroethylene (CAS 127-18-4)

#### CERCLA Hazardous Substance List (40 CFR 302.4)

tetrachloroethylene (CAS 127-18-4) Listed.

trans-1,2-dichloroethylene (CAS 156-60-5) Listed.

#### CERCLA Hazardous Substances: Reportable quantity

tetrachloroethylene (CAS 127-18-4) 100 LBS

trans-1,2-dichloroethylene (CAS 156-60-5) 1000 LBS

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

#### Other federal regulations

##### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

tetrachloroethylene (CAS 127-18-4)

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.**Food and Drug Administration (FDA)** Not regulated.**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Classified hazard categories** Acute toxicity (any route of exposure)  
 Skin corrosion or irritation  
 Serious eye damage or eye irritation  
 Respiratory or skin sensitization  
 Carcinogenicity  
 Specific target organ toxicity (single or repeated exposure)

**SARA 302 Extremely hazardous substance**

Not listed.

**SARA 313 (TRI reporting)**

| Chemical name       | CAS number | % by wt. |
|---------------------|------------|----------|
| tetrachloroethylene | 127-18-4   | 90 - 100 |

**US state regulations****US. New Jersey Worker and Community Right-to-Know Act**

tetrachloroethylene (CAS 127-18-4)  
 trans-1,2-dichloroethylene (CAS 156-60-5)

**US. Massachusetts RTK - Substance List**

tetrachloroethylene (CAS 127-18-4)  
 trans-1,2-dichloroethylene (CAS 156-60-5)

**US. Pennsylvania Worker and Community Right-to-Know Law**

tetrachloroethylene (CAS 127-18-4)  
 trans-1,2-dichloroethylene (CAS 156-60-5)

**US. Rhode Island RTK**

tetrachloroethylene (CAS 127-18-4)  
 trans-1,2-dichloroethylene (CAS 156-60-5)

**California Proposition 65**

**WARNING:** This product can expose you to tetrachloroethylene, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**California Proposition 65 - CRT: Listed date/Carcinogenic substance**

tetrachloroethylene (CAS 127-18-4) Listed: April 1, 1988

**US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))**

tetrachloroethylene (CAS 127-18-4)  
 trans-1,2-dichloroethylene (CAS 156-60-5)

**Volatile organic compounds (VOC) regulations****EPA**

**VOC content (40 CFR 51.100(s))** 8 %

**Consumer products (40 CFR 59, Subpt. C)** Not regulated

**State**

**Consumer products** This product is not for retail sale. It is for use in the manufacturing process only.

**VOC content (CA)** 10 %

**VOC content (OTC)** 8 %

**International Inventories**

| Country(s) or region | Inventory name                                     | On inventory (yes/no)* |
|----------------------|--|------------------------|
| Australia            | Australian Inventory of Chemical Substances (AICS) | Yes                    |
| Canada               | Domestic Substances List (DSL)                     | No                     |

| Country(s) or region        | Inventory name   | On inventory (yes/no)* |
|-----------------------------|--|------------------------|
| Canada                      | Non-Domestic Substances List (NDSL)                                    | Yes                    |
| China                       | Inventory of Existing Chemical Substances in China (IECSC)             | Yes                    |
| Europe                      | European Inventory of Existing Commercial Chemical Substances (EINECS) | No                     |
| Europe                      | European List of Notified Chemical Substances (ELINCS)                 | No                     |
| Japan                       | Inventory of Existing and New Chemical Substances (ENCS)               | Yes                    |
| Korea                       | Existing Chemicals List (ECL)  | Yes                    |
| New Zealand                 | New Zealand Inventory  | Yes                    |
| Philippines                 | Philippine Inventory of Chemicals and Chemical Substances (PICCS)      | Yes                    |
| Taiwan                      | Taiwan Toxic Chemical Substances (TCS)                                 | Yes                    |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory                          | Yes                    |

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)  
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information, including date of preparation or last revision

|                            |   |
|----------------------------|---|
| <b>Issue date</b>          | 05-19-2014  |
| <b>Revision date</b>       | 12-19-2017  |
| <b>Prepared by</b>         | Allison Yoon  |
| <b>Version #</b>           | 02  |
| <b>Further information</b> | CRC # 894A/1002879  |
| <b>HMIS® ratings</b>       | Health: 2*<br>Flammability: 1<br>Physical hazard: 0<br>Personal protection: B |
| <b>NFPA ratings</b>        | Health: 2<br>Flammability: 1<br>Instability: 0                                |

### NFPA ratings



### Disclaimer

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC's knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this (M)SDS consult your supervisor, a health & safety professional, or CRC Industries, Inc..

### Revision information

This document has undergone significant changes and should be reviewed in its entirety.

# Safety Data Sheet



## 1. Identification

|                             |   |                         |  |
|-----------------------------|---|-------------------------|--|
| <b>Product Name:</b>        | IC +SSPR 6PK GLOSS GLOSSY BLACK   | <b>Revision Date:</b>   | 8/15/2018  |
| <b>Product Identifier:</b>  | 1679830   | <b>Supercedes Date:</b> | 8/7/2018   |
| <b>Recommended Use:</b>     | Topcoat/Aerosols  |                         |  |
| <b>Supplier:</b>            | Rust-Oleum Corporation<br>11 Hawthorn Parkway<br>Vernon Hills, IL 60061<br>USA  | <b>Manufacturer:</b>    | Rust-Oleum Corporation<br>11 Hawthorn Parkway<br>Vernon Hills, IL 60061<br>USA |
|                             | Rust-Oleum Canada (ROCA)<br>200 Confederation Parkway<br>Concord, ON L4K 4T8<br>Canada<br>Emergency Phone: 800-387-3625 |                         |  |
| <b>Preparer:</b>            | Regulatory Department   |                         |  |
| <b>Emergency Telephone:</b> | 24 Hour Hotline: 847-367-7700   |                         |  |

## 2. Hazard Identification

### Classification

### Symbol(s) of Product



### Signal Word

Danger

### Possible Hazards

43% of the mixture consists of ingredient(s) of unknown acute toxicity.

### GHS HAZARD STATEMENTS

|                                       |      |   |
|---------------------------------------|------|---|
| Flammable Aerosol, category 1         | H222 | Extremely flammable aerosol.                        |
| Compressed Gas                        | H280 | Contains gas under pressure; may explode if heated. |
| Germ Cell Mutagenicity, category 1B   | H340 | May cause genetic defects.                          |
| Carcinogenicity, category 1B          | H350 | May cause cancer.                                   |
| STOT, single exposure, category 3, NE | H336 | May cause drowsiness or dizziness.                  |

Eye Irritation, category 2 H319 Causes serious eye irritation.

Skin Sensitizer, category 1 H317 May cause an allergic skin reaction.

**GHS LABEL PRECAUTIONARY STATEMENTS**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C / 122°F.

P410+P403 Protect from sunlight. Store in a well-ventilated place.

P201 Obtain special instructions before use.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local, regional and national regulations.

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P271 Use only outdoors or in a well-ventilated area.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P264 Wash hands thoroughly after handling.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

P272 Contaminated work clothing should not be allowed out of the workplace.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P333+P313

If skin irritation or rash occurs: Get medical advice/attention.

P321

For specific treatment see label

**GHS SDS PRECAUTIONARY STATEMENTS**

P363

Wash contaminated clothing before reuse.

**3. Composition / Information On Ingredients****HAZARDOUS SUBSTANCES**

| <b><u>Chemical Name</u></b>            | <b><u>CAS-No.</u></b> | <b><u>Wt. %</u></b> | <b><u>GHS Symbols</u></b> | <b><u>GHS Statements</u></b> |
|--|-----------------------|---------------------|---------------------------|------------------------------|
| Acetone                                | 67-64-1               | 30                  | GHS02-GHS07               | H225-319-332-336             |
| Propane                                | 74-98-6               | 17                  | GHS04                     | H280                         |
| Dimethyl Carbonate                     | 616-38-6              | 8.1                 | GHS02                     | H225                         |
| n-Butane                               | 106-97-8              | 8.0                 | GHS04                     | H280                         |
| 1-Methoxy-2-Propyl Acetate             | 108-65-6              | 7.2                 | GHS02                     | H226                         |
| Naphtha, Petroleum, Hydrotreated Light | 64742-49-0            | 5.9                 | GHS08                     | H304                         |
| Xylenes (o-, m-, p- isomers)           | 1330-20-7             | 2.7                 | GHS02-GHS07               | H226-315-319-332             |
| Solvent Naphtha, Light Aromatic        | 64742-95-6            | 2.0                 | GHS07-GHS08               | H304-332                     |
| Aliphatic Hydrocarbon                  | 64742-89-8            | 1.2                 | GHS08                     | H304-340-350                 |
| Carbon Black                           | 1333-86-4             | 1.1                 | Not Available             | Not Available                |
| 1,2,4-Trimethylbenzene                 | 95-63-6               | 1.0                 | GHS02-GHS07-GHS08         | H226-304-315-319-332-335     |
| Ethylbenzene                           | 100-41-4              | 0.6                 | GHS02-GHS07-GHS08         | H225-304-332-351-373         |
| Naphtha (petroleum), heavy aromatic    | 64742-94-5            | 0.4                 | GHS07-GHS08               | H304-312                     |
| Ethylene Glycol Monobutyl Ether        | 111-76-2              | 0.2                 | GHS07                     | H302-312-315-319-332         |
| Methyl ethyl ketoxime                  | 96-29-7               | 0.1                 | GHS05-GHS06-GHS08         | H302-312-317-318-331-351     |

**4. First-Aid Measures**

**FIRST AID - EYE CONTACT:** Immediately flush eyes with plenty of water for at least 15 minutes holding eyelids open. Get medical attention. Do NOT allow rubbing of eyes or keeping eyes closed.

**FIRST AID - SKIN CONTACT:** Wash skin with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists.

**FIRST AID - INHALATION:** If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention. Do NOT use mouth-to-mouth resuscitation.

**FIRST AID - INGESTION:** Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. Get immediate medical attention. If swallowed, get medical attention.



## 5. Fire-Fighting Measures

**EXTINGUISHING MEDIA:** Alcohol Film Forming Foam, Carbon Dioxide, Dry Chemical, Water Fog

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** FLASH POINT IS LESS THAN 20°F. EXTREMELY FLAMMABLE LIQUID AND VAPOR! Water spray may be ineffective. Closed containers may explode when exposed to extreme heat. Vapors may form explosive mixtures with air. Vapors can travel to a source of ignition and flash back. Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Perforation of the pressurized container may cause bursting of the can. Closed containers may explode when exposed to extreme heat due to buildup of steam. No unusual fire or explosion hazards noted.

**SPECIAL FIREFIGHTING PROCEDURES:** Evacuate area and fight fire from a safe distance. Full protective equipment including self-contained breathing apparatus should be used. Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion. Use water spray to keep fire-exposed containers cool. Containers may explode when heated.

**Special Fire and Explosion Hazard (Combustible Dust):** No Information

## 6. Accidental Release Measures

**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:** Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Remove all sources of ignition, ventilate area and remove with inert absorbent and non-sparking tools. Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Ventilate area, isolate spilled material, and remove with inert absorbent. Dispose of contaminated absorbent, container, and unused contents in accordance with local, state, and federal regulations.

## 7. Handling and Storage

**HANDLING:** Wash thoroughly after handling. Wash hands before eating. Use only in a well-ventilated area. Follow all SDS and label precautions even after container is emptied because it may retain product residues. Avoid breathing fumes, vapors, or mist. Remove contaminated clothing and launder before reuse. Use only with adequate ventilation. Avoid contact with eyes, skin and clothing.

**STORAGE:** Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Contents under pressure. Do not store above 120 ° F. Store large quantities in buildings designed and protected for storage of flammable aerosols. Contents under pressure. Do not expose to heat or store above 120 ° F. Product should be stored in tightly sealed containers and protected from heat, moisture, and foreign materials. Store in a dry, well ventilated place. Keep container tightly closed when not in use. Keep away from heat, sparks, flame and sources of ignition. Avoid excess heat.

**Advice on Safe Handling of Combustible Dust:** No Information

## 8. Exposure Controls / Personal Protection

| Chemical Name                             | CAS-No.    | Weight %<br>Less Than | ACGIH TLV-<br>TWA | ACGIH TLV-<br>STEL | OSHA PEL-TWA | OSHA PEL-<br>CEILING |
|---|------------|-----------------------|-------------------|--------------------|--------------|----------------------|
| Acetone                                   | 67-64-1    | 35.0                  | 250 ppm           | 500 ppm            | 1000 ppm     | N.E.                 |
| Propane                                   | 74-98-6    | 20.0                  | N.E.              | N.E.               | 1000 ppm     | N.E.                 |
| Dimethyl Carbonate                        | 616-38-6   | 10.0                  | N.E.              | N.E.               | N.E.         | N.E.                 |
| n-Butane                                  | 106-97-8   | 10.0                  | N.E.              | 1000 ppm           | N.E.         | N.E.                 |
| 1-Methoxy-2-Propyl Acetate                | 108-65-6   | 10.0                  | N.E.              | N.E.               | N.E.         | N.E.                 |
| Naphtha, Petroleum,<br>Hydrotreated Light | 64742-49-0 | 10.0                  | N.E.              | N.E.               | N.E.         | N.E.                 |
| Xylenes (o-, m-, p- isomers)              | 1330-20-7  | 5.0                   | 100 ppm           | 150 ppm            | 100 ppm      | N.E.                 |
| Solvent Naphtha, Light Aromatic           | 64742-95-6 | 5.0                   | N.E.              | N.E.               | N.E.         | N.E.                 |
| Aliphatic Hydrocarbon                     | 64742-89-8 | 5.0                   | N.E.              | N.E.               | N.E.         | N.E.                 |
| Carbon Black                              | 1333-86-4  | 5.0                   | 3 mg/m3           | N.E.               | 3.5 mg/m3    | N.E.                 |
| 1,2,4-Trimethylbenzene                    | 95-63-6    | 5.0                   | N.E.              | N.E.               | N.E.         | N.E.                 |
| Ethylbenzene                              | 100-41-4   | 1.0                   | 20 ppm            | N.E.               | 100 ppm      | N.E.                 |
| Naphtha (petroleum), heavy<br>aromatic    | 64742-94-5 | 1.0                   | N.E.              | N.E.               | N.E.         | N.E.                 |
| Ethylene Glycol Monobutyl<br>Ether        | 111-76-2   | 1.0                   | 20 ppm            | N.E.               | 50 ppm       | N.E.                 |
| Methyl ethyl ketoxime                     | 96-29-7    | 1.0                   | 10 ppm            | N.E.               | N.E.         | N.E.                 |

### PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof ventilation equipment. Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation. Provide general dilution of local exhaust ventilation in volume and pattern to keep TLV of hazardous ingredients below acceptable limits.

**RESPIRATORY PROTECTION:** A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. A NIOSH/MSHA approved air purifying respirator with organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

**SKIN PROTECTION:** Use impervious gloves to prevent skin contact and absorption of this material through the skin. Nitrile or Neoprene gloves may afford adequate skin protection. Use gloves to prevent prolonged skin contact.

**EYE PROTECTION:** Use safety eyewear designed to protect against splash of liquids.

**OTHER PROTECTIVE EQUIPMENT:** Refer to safety supervisor or industrial hygienist for further information regarding personal protective equipment and its application. Refer to safety supervisor or industrial hygienist for further guidance regarding types of personal protective equipment and their applications.

**HYGIENIC PRACTICES:** Wash thoroughly with soap and water before eating, drinking or smoking. Remove contaminated clothing immediately and launder before reuse.

**Engineering Measures for Combustible Dust:** No Information

## 9. Physical and Chemical Properties

|                                 |                     |   |            |
|---------------------------------|---------------------|---|------------|
| <b>Appearance:</b>              | Aerosolized Mist    | <b>Physical State:</b>                              | Liquid     |
| <b>Odor:</b>                    | Solvent Like        | <b>Odor Threshold:</b>                              | N.E.       |
| <b>Relative Density:</b>        | 0.757               | <b>pH:</b>  | N.A.       |
| <b>Freeze Point, °C:</b>        | N.D.                | <b>Viscosity:</b>                                   | N.D.       |
| <b>Solubility in Water:</b>     | Slight              | <b>Partition Coefficient, n-octanol/<br/>water:</b> | N.D.       |
| <b>Decomposition Temp., °C:</b> | N.D.                | <b>Explosive Limits, vol%:</b>                      | 0.9 - 13.0 |
| <b>Boiling Range, °C:</b>       | -37 - 151           | <b>Flash Point, °C:</b>                             | -96        |
| <b>Flammability:</b>            | Supports Combustion | <b>Auto-ignition Temp., °C:</b>                     | N.D.       |
| <b>Evaporation Rate:</b>        | Faster than Ether   | <b>Vapor Pressure:</b>                              | N.D.       |
| <b>Vapor Density:</b>           | Heavier than Air    |   |            |

(See "Other information" Section for abbreviation legend)

## 10. Stability and Reactivity

**CONDITIONS TO AVOID:** Avoid temperatures above 120°F (49°C). Avoid all possible sources of ignition.

**INCOMPATIBILITY:** Incompatible with strong oxidizing agents, strong acids and strong alkalis.

**HAZARDOUS DECOMPOSITION:** By open flame, carbon monoxide and carbon dioxide. When heated to decomposition, it emits acrid smoke and irritating fumes. Contains solvents which may form carbon monoxide, carbon dioxide, and formaldehyde.

**HAZARDOUS POLYMERIZATION:** Will not occur under normal conditions.

**STABILITY:** This product is stable under normal storage conditions.

## 11. Toxicological Information

**EFFECTS OF OVEREXPOSURE - EYE CONTACT:** Causes Serious Eye Irritation

**EFFECTS OF OVEREXPOSURE - SKIN CONTACT:** Substance may cause slight skin irritation. Prolonged or repeated contact may cause skin irritation. May cause skin irritation. Allergic reactions are possible.

**EFFECTS OF OVEREXPOSURE - INHALATION:** Harmful if inhaled. High gas, vapor, mist or dust concentrations may be harmful if inhaled. Avoid breathing fumes, spray, vapors, or mist. High vapor concentrations are irritating to the eyes, nose, throat and lungs. Prolonged or excessive inhalation may cause respiratory tract irritation.

**EFFECTS OF OVEREXPOSURE - INGESTION:** Aspiration hazard if swallowed; can enter lungs and cause damage. Harmful if swallowed.

**EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS:** Overexposure to xylene in laboratory animals has been associated with liver abnormalities, kidney, lung, spleen, eye and blood damage as well as reproductive disorders. Effects in humans, due to chronic overexposure, have included liver, cardiac abnormalities and nervous system damage. IARC lists Ethylbenzene as a possible human carcinogen (group 2B). Contains carbon black. Chronic inflammation, lung fibrosis, and lung tumors have been observed in some rats experimentally exposed for long periods of time to excessive concentrations of carbon black and several insoluble fine dust particles. Tumors have not been observed in other animal species (i.e., mouse and hamster) under similar circumstances and study conditions. Epidemiological studies of North American workers show no evidence of clinically significant adverse health effects due to occupational exposure to carbon black.

Carbon black is listed as a Group 2B-"Possibly carcinogenic to humans" by IARC and is proposed to be listed as A4- "not classified as a human carcinogen" by the American Conference of Governmental Industrial Hygienists. Significant exposure is not anticipated during brush application or drying. Risk of overexposure depends on duration and level of exposure to dust from repeated sanding of 206

surfaces or spray mist and the actual concentration of carbon black in the formula. May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. High concentrations may lead to central nervous system effects (drowsiness, dizziness, nausea, headaches, paralysis, and blurred vision) and/or damage.

**PRIMARY ROUTE(S) OF ENTRY:** Eye Contact, Ingestion, Inhalation, Skin Absorption, Skin Contact

#### ACUTE TOXICITY VALUES

The acute effects of this product have not been tested. Data on individual components are tabulated below:

| <u>CAS-No.</u> | <u>Chemical Name</u>                   | <u>Oral LD50</u> | <u>Dermal LD50</u>  | <u>Vapor LC50</u> |
|----------------|--|------------------|---------------------|-------------------|
| 67-64-1        | Acetone                                | 5800 mg/kg Rat   | >15700 mg/kg Rabbit | 50.1 mg/L Rat     |
| 616-38-6       | Dimethyl Carbonate                     | 13000 mg/kg Rat  | >5000 mg/kg Rabbit  | 140 mg/L Rat      |
| 106-97-8       | n-Butane                               | N.E.             | N.E.                | 658 mg/L Rat      |
| 108-65-6       | 1-Methoxy-2-Propyl Acetate             | 8532 mg/kg Rat   | >5000 mg/kg Rabbit  | N.E.              |
| 64742-49-0     | Naphtha, Petroleum, Hydrotreated Light | >5000 mg/kg Rat  | >3160 mg/kg Rabbit  | >4951 mg/L Rat    |
| 1330-20-7      | Xylenes (o-, m-, p- isomers)           | 3500 mg/kg Rat   | >4350 mg/kg Rabbit  | 29.08 mg/L Rat    |
| 64742-95-6     | Solvent Naphtha, Light Aromatic        | 8400 mg/kg Rat   | >2000 mg/kg Rabbit  | N.E.              |
| 64742-89-8     | Aliphatic Hydrocarbon                  | N.E.             | 3000 mg/kg Rabbit   | N.E.              |
| 1333-86-4      | Carbon Black                           | >15400 mg/kg Rat | N.E.                | N.E.              |
| 95-63-6        | 1,2,4-Trimethylbenzene                 | 3280 mg/kg Rat   | >3160 mg/kg Rabbit  | 18 mg/L Rat       |
| 100-41-4       | Ethylbenzene                           | 3500 mg/kg Rat   | 15400 mg/kg Rabbit  | 17.4 mg/L Rat     |
| 64742-94-5     | Naphtha (petroleum), heavy aromatic    | >5000 mg/kg Rat  | >1795 mg/kg Rabbit  | 36 mg/L Rat       |
| 111-76-2       | Ethylene Glycol Monobutyl Ether        | 470 mg/kg Rat    | 1,060 mg/kg Rabbit  | 11 mg/L           |
| 96-29-7        | Methyl ethyl ketoxime                  | 930 mg/kg Rat    | 1100 mg/kg Rabbit   | >4.8 mg/L Rat     |

N.E. - Not Established

## 12. Ecological Information

**ECOLOGICAL INFORMATION:** Product is a mixture of listed components. Product is a mixture of listed components.

## 13. Disposal Information

**DISPOSAL INFORMATION:** Dispose of material in accordance to local, state, and federal regulations and ordinances. Do not allow to enter waterways, wastewater, soil, storm drains or sewer systems. Do not incinerate closed containers. This product as supplied is a USEPA defined ignitable hazardous waste. Dispose of unusable product as a hazardous waste (D001) in accordance with local, state, and federal regulation.

## 14. Transport Information

|                              | <u>Domestic (USDOT)</u>              | <u>International (IMDG)</u> | <u>Air (IATA)</u> | <u>TDG (Canada)</u>                  |
|------------------------------|--------------------------------------|-----------------------------|-------------------|--------------------------------------|
| <b>UN Number:</b>            | N.A.                                 | 1950                        | 1950              | N.A.                                 |
| <b>Proper Shipping Name:</b> | Paint Products in Limited Quantities | Aerosols                    | Aerosols          | Paint Products in Limited Quantities |
| <b>Hazard Class:</b>         | N.A.                                 | 2.1                         | 2.1               | N.A.                                 |
| <b>Packing Group:</b>        | N.A.                                 | N.A.                        | N.A.              | N.A.                                 |
| <b>Limited Quantity:</b>     | Yes                                  | Yes                         | Yes               | Yes                                  |

## 15. Regulatory Information

### U.S. Federal Regulations:

#### CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Gas under pressure, Carcinogenicity, Respiratory or Skin Sensitization, Serious eye damage or eye irritation, Specific target organ toxicity (single or repeated exposure), Germ cell mutagenicity

### Sara Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

| <u>Chemical Name</u>            | <u>CAS-No.</u> |
|---------------------------------|----------------|
| Xylenes (o-, m-, p- isomers)    | 1330-20-7      |
| 1,2,4-Trimethylbenzene          | 95-63-6        |
| Ethylbenzene                    | 100-41-4       |
| Ethylene Glycol Monobutyl Ether | 111-76-2       |

### Toxic Substances Control Act:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(b) if exported from the United States:

No TSCA 12(b) components exist in this product.

## 16. Other Information

### HMIS RATINGS

Health: 2\*      Flammability: 4      Physical Hazard: 0      Personal Protection: X

### NFPA RATINGS

Health: 2      Flammability: 4      Instability: 0

Maximum Incremental Reactivity: 0.94

SDS REVISION DATE: 8/15/2018

REASON FOR REVISION: Substance and/or Product Properties Changed in Section(s):  
01 - Identification

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

The manufacturer believes, to the best of its knowledge, information and belief, the information contained herein to be accurate and reliable as of the date of this safety data sheet. However, because the conditions of handling, use, and storage of these materials are beyond our control, we assume no responsibility or liability for personal injury or property damage incurred by the use of these materials. The manufacturer makes no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations in this material safety data sheet are offered for the users' consideration and examination. It is the responsibility of the user to determine the final suitability of this information and to comply with all applicable international, federal, state, and local laws and regulations.

# Safety Data Sheet



## 1. Identification

|                             |  |                         |  |
|-----------------------------|--|-------------------------|--|
| <b>Product Name:</b>        | IC +SSPR 6PK GLOSS GLOSSY WHITE  | <b>Revision Date:</b>   | 10/19/2018   |
| <b>Product Identifier:</b>  | 1692830  | <b>Supersedes Date:</b> | 8/15/2018  |
| <b>Recommended Use:</b>     | Topcoat/Aerosols   |                         |  |
| <b>Supplier:</b>            | Rust-Oleum Corporation<br>11 Hawthorn Parkway<br>Vernon Hills, IL 60061<br>USA | <b>Manufacturer:</b>    | Rust-Oleum Corporation<br>11 Hawthorn Parkway<br>Vernon Hills, IL 60061<br>USA |
| <b>Preparer:</b>            | Regulatory Department  |                         |  |
| <b>Emergency Telephone:</b> | 24 Hour Hotline: 847-367-7700  |                         |  |

## 2. Hazard Identification

### Classification

### Symbol(s) of Product



### Signal Word

Danger

### Possible Hazards

51% of the mixture consists of ingredient(s) of unknown acute toxicity.

### GHS HAZARD STATEMENTS

|                                       |      |   |
|---------------------------------------|------|---|
| Carcinogenicity, category 1B          | H350 | May cause cancer.                                   |
| Compressed Gas                        | H280 | Contains gas under pressure; may explode if heated. |
| Eye Irritation, category 2            | H319 | Causes serious eye irritation.                      |
| Flammable Aerosol, category 1         | H222 | Extremely flammable aerosol.                        |
| Germ Cell Mutagenicity, category 1B   | H340 | May cause genetic defects.                          |
| STOT, single exposure, category 3, NE | H336 | May cause drowsiness or dizziness.                  |

### GHS LABEL PRECAUTIONARY STATEMENTS

|                |  |
|----------------|--|
| P201           | Obtain special instructions before use.  |
| P210           | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.                                   |
| P211           | Do not spray on an open flame or other ignition source.  |
| P251           | Do not pierce or burn, even after use.   |
| P261           | Avoid breathing dust/fume/gas/mist/vapors/spray.   |
| P264           | Wash hands thoroughly after handling.  |
| P271           | Use only outdoors or in a well-ventilated area.  |
| P280           | Wear protective gloves/protective clothing/eye protection/face protection.   |
| P304+P340      | IF INHALED: Remove person to fresh air and keep comfortable for breathing.   |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P308+P313      | IF exposed or concerned: Get medical advice/attention.   |
| P312           | Call a POISON CENTER or doctor/physician if you feel unwell.   |
| P337+P313      | If eye irritation persists: Get medical advice/attention.  |
| P403+P233      | Store in a well-ventilated place. Keep container tightly closed.   |
| P405           | Store locked up.   |
| P410+P403      | Protect from sunlight. Store in a well-ventilated place.   |
| P410+P412      | Protect from sunlight. Do not expose to temperatures exceeding 50°C / 122°F.   |
| P501           | Dispose of contents/container in accordance with local, regional and national regulations.                                       |

### 3. Composition / Information On Ingredients

#### HAZARDOUS SUBSTANCES

| <u>Chemical Name</u> | <u>CAS-No.</u> | <u>Wt.% Range</u> | <u>GHS Symbols</u> | <u>GHS Statements</u> |
|----------------------|----------------|-------------------|--------------------|-----------------------|
| Propane              | 74-98-6        | 10-25             | GHS04              | H280                  |
| Acetone              | 67-64-1        | 10-25             | GHS02-GHS07        | H225-319-332-336      |
| Titanium Dioxide     | 13463-67-7     | 10-25             | Not Available      | Not Available         |

|  |            |         |                       |                          |
|--|------------|---------|-----------------------|--------------------------|
| n-Butane                               | 106-97-8   | 2.5-10  | GHS04                 | H280                     |
| n-Butyl Acetate                        | 123-86-4   | 2.5-10  | GHS02-GHS07           | H226-336                 |
| Naphtha, Petroleum, Hydrotreated Light | 64742-49-0 | 2.5-10  | GHS08                 | H304                     |
| Dimethyl Carbonate                     | 616-38-6   | 2.5-10  | GHS02                 | H225                     |
| 1-Methoxy-2-Propyl Acetate             | 108-65-6   | 2.5-10  | GHS02                 | H226                     |
| Solvent Naphtha, Light Aromatic        | 64742-95-6 | 2.5-10  | GHS07-GHS08           | H304-332-340-350         |
| Xylenes (o-, m-, p- isomers)           | 1330-20-7  | 1.0-2.5 | GHS02-GHS07           | H226-315-319-332         |
| Propylene Glycol Monobutyl Ether       | 5131-66-8  | 1.0-2.5 | GHS07                 | H302-315-319             |
| 1,2,4-Trimethylbenzene                 | 95-63-6    | 1.0-2.5 | GHS02-GHS07-<br>GHS08 | H226-304-315-319-332-335 |
| Ethylbenzene                           | 100-41-4   | 0.1-1.0 | GHS02-GHS07-<br>GHS08 | H225-304-332-351-373     |

#### 4. First-Aid Measures

**FIRST AID - EYE CONTACT:** Immediately flush eyes with plenty of water for at least 15 minutes holding eyelids open. Get medical attention. Do NOT allow rubbing of eyes or keeping eyes closed.

**FIRST AID - SKIN CONTACT:** Wash skin with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists.

**FIRST AID - INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention. Do NOT use mouth-to-mouth resuscitation. If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

**FIRST AID - INGESTION:** Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. Get immediate medical attention. If swallowed, get medical attention.

#### 5. Fire-Fighting Measures

**EXTINGUISHING MEDIA:** Alcohol Film Forming Foam, Carbon Dioxide, Dry Chemical, Dry Sand, Water Fog

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** FLASH POINT IS LESS THAN 20°F. EXTREMELY FLAMMABLE LIQUID AND VAPOR! Water spray may be ineffective. Closed containers may explode when exposed to extreme heat due to buildup of steam. Closed containers may explode when exposed to extreme heat. Vapors may form explosive mixtures with air. Vapors can travel to a source of ignition and flash back. Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Perforation of the pressurized container may cause bursting of the can. No unusual fire or explosion hazards noted.

**SPECIAL FIREFIGHTING PROCEDURES:** Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion. Full protective equipment including self-contained breathing apparatus should be used. Evacuate area and fight fire from a safe distance. Use water spray to keep fire-exposed containers cool. Containers may explode when heated.

**Special Fire and Explosion Hazard (Combustible Dust):** No Information

#### 6. Accidental Release Measures

**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:** Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Remove all sources of ignition, ventilate area and remove with inert absorbent and non-sparking tools. Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers. Ventilate area, isolate spilled material, and remove with inert absorbent. Dispose of contaminated absorbent, container, and unused contents in accordance with local, state, and federal regulations.

#### 7. Handling and Storage

**HANDLING:** Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing and launder before reuse. Use only in a well-ventilated area. Use only with adequate ventilation. Follow all SDS and label precautions even after container is emptied because it may retain product residues. Avoid breathing fumes, vapors, or mist. Avoid contact with eyes, skin and clothing.

**STORAGE:** Store in a dry, well ventilated place. Keep container tightly closed when not in use. Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Contents under pressure. Do not store above 120 ° F. Store large quantities in buildings designed and protected for storage of flammable aerosols. Keep away from heat, sparks, flame and sources of ignition. Contents under pressure. Do not expose to heat or store above 120 ° F. Avoid excess heat. Product should be stored in tightly sealed containers and protected from heat, moisture, and foreign materials.

**Advice on Safe Handling of Combustible Dust:** No Information

## 8. Exposure Controls / Personal Protection

| Chemical Name                             | CAS-No.    | Weight %<br>Less Than | ACGIH TLV-<br>TWA | ACGIH TLV-<br>STEL | OSHA PEL-TWA | OSHA PEL-<br>CEILING |
|---|------------|-----------------------|-------------------|--------------------|--------------|----------------------|
| Propane                                   | 74-98-6    | 20.0                  | N.E.              | N.E.               | 1000 ppm     | N.E.                 |
| Acetone                                   | 67-64-1    | 20.0                  | 250 ppm           | 500 ppm            | 1000 ppm     | N.E.                 |
| Titanium Dioxide                          | 13463-67-7 | 15.0                  | 10 mg/m3          | N.E.               | 15 mg/m3     | N.E.                 |
| n-Butane                                  | 106-97-8   | 10.0                  | N.E.              | 1000 ppm           | N.E.         | N.E.                 |
| n-Butyl Acetate                           | 123-86-4   | 10.0                  | 50 ppm            | 150 ppm            | 150 ppm      | N.E.                 |
| Naphtha, Petroleum,<br>Hydrotreated Light | 64742-49-0 | 10.0                  | N.E.              | N.E.               | N.E.         | N.E.                 |
| Dimethyl Carbonate                        | 616-38-6   | 10.0                  | N.E.              | N.E.               | N.E.         | N.E.                 |
| 1-Methoxy-2-Propyl Acetate                | 108-65-6   | 5.0                   | N.E.              | N.E.               | N.E.         | N.E.                 |
| Solvent Naphtha, Light Aromatic           | 64742-95-6 | 5.0                   | N.E.              | N.E.               | N.E.         | N.E.                 |
| Xylenes (o-, m-, p- isomers)              | 1330-20-7  | 5.0                   | 100 ppm           | 150 ppm            | 100 ppm      | N.E.                 |
| Propylene Glycol Monobutyl<br>Ether       | 5131-66-8  | 5.0                   | N.E.              | N.E.               | N.E.         | N.E.                 |
| 1,2,4-Trimethylbenzene                    | 95-63-6    | 5.0                   | N.E.              | N.E.               | N.E.         | N.E.                 |
| Ethylbenzene                              | 100-41-4   | 1.0                   | 20 ppm            | N.E.               | 100 ppm      | N.E.                 |

### PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof ventilation equipment. Provide general dilution of local exhaust ventilation in volume and pattern to keep TLV of hazardous ingredients below acceptable limits. Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation.

**RESPIRATORY PROTECTION:** A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. A NIOSH/MSHA approved air purifying respirator with organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

**SKIN PROTECTION:** Use gloves to prevent prolonged skin contact. Use impervious gloves to prevent skin contact and absorption of this material through the skin. Nitrile or Neoprene gloves may afford adequate skin protection.

**EYE PROTECTION:** Use safety eyewear designed to protect against splash of liquids.

**OTHER PROTECTIVE EQUIPMENT:** Refer to safety supervisor or industrial hygienist for further guidance regarding types of personal protective equipment and their applications. Refer to safety supervisor or industrial hygienist for further information regarding personal protective equipment and its application.

**HYGIENIC PRACTICES:** Wash thoroughly with soap and water before eating, drinking or smoking. Remove contaminated clothing immediately and launder before reuse.

**Engineering Measures for Combustible Dust:** No Information

## 9. Physical and Chemical Properties

|                                 |                     |   |            |
|---------------------------------|---------------------|---|------------|
| <b>Appearance:</b>              | Aerosolized Mist    | <b>Physical State:</b>                              | Liquid     |
| <b>Odor:</b>                    | Solvent Like        | <b>Odor Threshold:</b>                              | N.E.       |
| <b>Relative Density:</b>        | 0.831               | <b>pH:</b>  | N.A.       |
| <b>Freeze Point, °C:</b>        | N.D.                | <b>Viscosity:</b>                                   | N.D.       |
| <b>Solubility in Water:</b>     | Slight              | <b>Partition Coefficient, n-octanol/<br/>water:</b> | N.D.       |
| <b>Decomposition Temp., °C:</b> | N.D.                | <b>Explosive Limits, vol%:</b>                      | 0.9 - 13.0 |
| <b>Boiling Range, °C:</b>       | -37 - 171           | <b>Flash Point, °C:</b>                             | -96        |
| <b>Flammability:</b>            | Supports Combustion | <b>Auto-ignition Temp., °C:</b>                     | N.D.       |
| <b>Evaporation Rate:</b>        | Faster than Ether   | <b>Vapor Pressure:</b>                              | N.D.       |
| <b>Vapor Density:</b>           | Heavier than Air    |   |            |

(See "Other information" Section for abbreviation legend)



## 10. Stability and Reactivity

**CONDITIONS TO AVOID:** Avoid temperatures above 120°F (49°C). Avoid all possible sources of ignition.

**INCOMPATIBILITY:** Incompatible with strong oxidizing agents, strong acids and strong alkalis.

**HAZARDOUS DECOMPOSITION:** By open flame, carbon monoxide and carbon dioxide. When heated to decomposition, it emits acrid smoke and irritating fumes. Contains solvents which may form carbon monoxide, carbon dioxide, and formaldehyde.

**HAZARDOUS POLYMERIZATION:** Will not occur under normal conditions.

**STABILITY:** This product is stable under normal storage conditions.

## 11. Toxicological Information

**EFFECTS OF OVEREXPOSURE - EYE CONTACT:** Causes Serious Eye Irritation

**EFFECTS OF OVEREXPOSURE - SKIN CONTACT:** Substance may cause slight skin irritation. May cause skin irritation. Allergic reactions are possible. Prolonged or repeated contact may cause skin irritation.

**EFFECTS OF OVEREXPOSURE - INHALATION:** Harmful if inhaled. High gas, vapor, mist or dust concentrations may be harmful if inhaled. Avoid breathing fumes, spray, vapors, or mist. High vapor concentrations are irritating to the eyes, nose, throat and lungs. Prolonged or excessive inhalation may cause respiratory tract irritation.

**EFFECTS OF OVEREXPOSURE - INGESTION:** Harmful if swallowed. Aspiration hazard if swallowed; can enter lungs and cause damage.

**EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS:** May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. High concentrations may lead to central nervous system effects (drowsiness, dizziness, nausea, headaches, paralysis, and blurred vision) and/or damage. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Overexposure to xylene in laboratory animals has been associated with liver abnormalities, kidney, lung, spleen, eye and blood damage as well as reproductive disorders. Effects in humans, due to chronic overexposure, have included liver, cardiac abnormalities and nervous system damage. IARC lists Ethylbenzene as a possible human carcinogen (group 2B). Contains Titanium Dioxide. Titanium Dioxide is listed as a Group 2B-"Possibly carcinogenic to humans" by IARC. No significant exposure to Titanium Dioxide is thought to occur during the use of products in which Titanium Dioxide is bound to other materials, such as in paints during brush application or drying. Risk of overexposure depends on duration and level of exposure to dust from repeated sanding of surfaces or spray mist and the actual concentration of Titanium Dioxide in the formula. (Ref: IARC Monograph, Vol. 93, 2010)

**PRIMARY ROUTE(S) OF ENTRY:** Eye Contact, Ingestion, Inhalation, Skin Absorption, Skin Contact

### ACUTE TOXICITY VALUES

The acute effects of this product have not been tested. Data on individual components are tabulated below:

| CAS-No.    | Chemical Name                          | Oral LD50        | Dermal LD50         | Vapor LC50     |
|------------|--|------------------|---------------------|----------------|
| 67-64-1    | Acetone                                | 5800 mg/kg Rat   | >15700 mg/kg Rabbit | 50.1 mg/L Rat  |
| 13463-67-7 | Titanium Dioxide                       | >10000 mg/kg Rat | 2500 mg/kg          | N.E.           |
| 106-97-8   | n-Butane                               | N.E.             | N.E.                | 658 mg/L Rat   |
| 123-86-4   | n-Butyl Acetate                        | 10768 mg/kg Rat  | >17600 mg/kg Rabbit | > 21 mg/L Rat  |
| 64742-49-0 | Naphtha, Petroleum, Hydrotreated Light | >5000 mg/kg Rat  | >3160 mg/kg Rabbit  | >4951 mg/L Rat |
| 616-38-6   | Dimethyl Carbonate                     | 13000 mg/kg Rat  | >5000 mg/kg Rabbit  | 140 mg/L Rat   |
| 108-65-6   | 1-Methoxy-2-Propyl Acetate             | 8532 mg/kg Rat   | >5000 mg/kg Rabbit  | N.E.           |
| 64742-95-6 | Solvent Naphtha, Light Aromatic        | 8400 mg/kg Rat   | >2000 mg/kg Rabbit  | N.E.           |
| 1330-20-7  | Xylenes (o-, m-, p- isomers)           | 3500 mg/kg Rat   | >4350 mg/kg Rabbit  | 29.08 mg/L Rat |
| 5131-66-8  | Propylene Glycol Monobutyl Ether       | 1900 mg/kg Rat   | N.E.                | N.E.           |
| 95-63-6    | 1,2,4-Trimethylbenzene                 | 3280 mg/kg Rat   | >3160 mg/kg Rabbit  | 18 mg/L Rat    |
| 100-41-4   | Ethylbenzene                           | 3500 mg/kg Rat   | 15400 mg/kg Rabbit  | 17.4 mg/L Rat  |

N.E. - Not Established

## 12. Ecological Information

**ECOLOGICAL INFORMATION:** Product is a mixture of listed components. Product is a mixture of listed components.

## 13. Disposal Information

**DISPOSAL INFORMATION:** Do not incinerate closed containers. Dispose of material in accordance to local, state, and federal regulations and ordinances. Do not allow to enter waterways, wastewater, soil, storm drains or sewer systems. This product as supplied is a USEPA defined ignitable hazardous waste. Dispose of unusable product as a hazardous waste (D001) in accordance with local, state, and federal regulation.

## 14. Transport Information

|                              | <u>Domestic (USDOT)</u> | <u>International (IMDG)</u> | <u>Air (IATA)</u>   | <u>TDG (Canada)</u> |
|------------------------------|-------------------------|-----------------------------|---------------------|---------------------|
| <b>UN Number:</b>            | N.A.                    | 1950                        | 1950                | N.A.                |
| <b>Proper Shipping Name:</b> | Aerosols                | Aerosols                    | Aerosols, flammable | Aerosols            |
| <b>Hazard Class:</b>         | N.A.                    | 2                           | 2.1                 | N.A.                |
| <b>Packing Group:</b>        | N.A.                    | N.A.                        | N.A.                | N.A.                |
| <b>Limited Quantity:</b>     | Yes                     | Yes                         | Yes                 | Yes                 |

## 15. Regulatory Information

### U.S. Federal Regulations:

#### CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Gas under pressure, Carcinogenicity, Serious eye damage or eye irritation, Specific target organ toxicity (single or repeated exposure), Germ cell mutagenicity

#### Sara Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

| <u>Chemical Name</u>         | <u>CAS-No.</u> |
|------------------------------|----------------|
| Xylenes (o-, m-, p- isomers) | 1330-20-7      |
| 1,2,4-Trimethylbenzene       | 95-63-6        |
| Ethylbenzene                 | 100-41-4       |

#### Toxic Substances Control Act:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(b) if exported from the United States:

No TSCA 12(b) components exist in this product.

### U.S. State Regulations:

#### California Proposition 65:

**WARNING:** Cancer - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

|                              |
|------------------------------|
| <b>16. Other Information</b> |
|------------------------------|

**HMIS RATINGS**

|                   |                        |                           |                               |
|-------------------|------------------------|---------------------------|-------------------------------|
| <b>Health:</b> 2* | <b>Flammability:</b> 4 | <b>Physical Hazard:</b> 0 | <b>Personal Protection:</b> X |
|-------------------|------------------------|---------------------------|-------------------------------|

**NFPA RATINGS**

|                  |                        |                       |
|------------------|------------------------|-----------------------|
| <b>Health:</b> 2 | <b>Flammability:</b> 4 | <b>Instability:</b> 0 |
|------------------|------------------------|-----------------------|

**Maximum Incremental Reactivity** 0.91**SDS REVISION DATE:** 10/19/2018

**REASON FOR REVISION:** Product Composition Changed  
 Substance and/or Product Properties Changed in Section(s):  
 01 - Identification  
 02 - Hazard Identification  
 03 - Composition/Information on Ingredients  
 05 - Fire-fighting Measures  
 08 - Exposure Controls/Personal Protection  
 14 - Transport Information  
 15 - Regulatory Information  
 Revision Statement(s) Changed

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

Rust-Oleum Corporation believes, to the best of its knowledge, information and belief, the information contained herein to be accurate and reliable as of the date of this safety data sheet. However, because the conditions of handling, use, and storage of these materials are beyond our control, we assume no responsibility or liability for personal injury or property damage incurred by the use of these materials. Rust-Oleum Corporation makes no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations in this material safety data sheet are offered for the users' consideration and examination. It is the responsibility of the user to determine the final suitability of this information and to comply with all applicable international, federal, state, and local laws and regulations.

# Safety Data Sheet



## 1. Identification

|                             |   |                         |  |
|-----------------------------|---|-------------------------|--|
| <b>Product Name:</b>        | IC SSPR 6PK FLAT ZINC GALVANIZING<br>COMPND   | <b>Revision Date:</b>   | 1/29/2020  |
| <b>Product Identifier:</b>  | 1685830   | <b>Supersedes Date:</b> | 9/12/2019  |
| <b>Recommended Use:</b>     | Cold Galvanizing/Aerosol  |                         |  |
| <b>Supplier:</b>            | Rust-Oleum Corporation<br>11 Hawthorn Parkway<br>Vernon Hills, IL 60061<br>USA  | <b>Manufacturer:</b>    | Rust-Oleum Corporation<br>11 Hawthorn Parkway<br>Vernon Hills, IL 60061<br>USA |
|                             | Rust-Oleum Canada (ROCA)<br>200 Confederation Parkway<br>Concord, ON L4K 4T8<br>Canada<br>Emergency Phone: 800-387-3625 |                         |  |
| <b>Preparer:</b>            | Regulatory Department   |                         |  |
| <b>Emergency Telephone:</b> | 24 Hour Hotline: 847-367-7700   |                         |  |

## 2. Hazard Identification

### Classification

#### Symbol(s) of Product



#### Signal Word

Danger

#### Possible Hazards

17% of the mixture consists of ingredient(s) of unknown acute toxicity.

#### GHS HAZARD STATEMENTS

|                                     |      |   |
|-------------------------------------|------|---|
| Acute Toxicity, Oral, category 4    | H302 | Harmful if swallowed.   |
| Carcinogenicity, category 2         | H351 | Suspected of causing cancer.                                    |
| Compressed Gas                      | H280 | Contains gas under pressure; may explode if heated.             |
| Flammable Aerosol, category 1       | H222 | Extremely flammable aerosol.                                    |
| STOT, repeated exposure, category 1 | H372 | Causes damage to organs through prolonged or repeated exposure. |

#### GHS LABEL PRECAUTIONARY STATEMENTS

|      |  |
|------|--|
| P201 | Obtain special instructions before use.  |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P211 | Do not spray on an open flame or other ignition source.  |
| P251 | Do not pierce or burn, even after use.   |
| P260 | Do not breathe dust/fume/gas/mist/vapors/spray.  |
| P264 | Wash hands thoroughly after handling.  |

|           |  |
|-----------|--|
| P280      | Wear protective gloves/protective clothing/eye protection/face protection.                 |
| P301+P312 | IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.                 |
| P308+P313 | IF exposed or concerned: Get medical advice/attention.                                     |
| P314      | Get medical advice/attention if you feel unwell.   |
| P330      | Rinse mouth.   |
| P405      | Store locked up.   |
| P410+P403 | Protect from sunlight. Store in a well-ventilated place.                                   |
| P410+P412 | Protect from sunlight. Do not expose to temperatures exceeding 50°C / 122°F.               |
| P501      | Dispose of contents/container in accordance with local, regional and national regulations. |

**GHS SDS PRECAUTIONARY STATEMENTS**

P270 Do not eat, drink or smoke when using this product.

### 3. Composition / Information On Ingredients

**HAZARDOUS SUBSTANCES**

| <u>Chemical Name</u>          | <u>CAS-No.</u> | <u>Wt.%</u> | <u>GHS Symbols</u>    | <u>GHS Statements</u> |
|-------------------------------|----------------|-------------|-----------------------|-----------------------|
| Zinc                          | 7440-66-6      | 48          | GHS02-GHS07           | H250-260-302          |
| n-Butyl Acetate               | 123-86-4       | 20          | GHS02-GHS07           | H226-336              |
| Propane                       | 74-98-6        | 10          | GHS04                 | H280                  |
| Hydrotreated Light Distillate | 64742-47-8     | 5.7         | GHS08                 | H304                  |
| n-Butane                      | 106-97-8       | 4.8         | GHS04                 | H280                  |
| Xylenes (o-, m-, p- isomers)  | 1330-20-7      | 3.6         | GHS02-GHS07           | H226-315-319-332      |
| Zinc Oxide                    | 1314-13-2      | 1.7         | Not Available         | Not Available         |
| Stoddard Solvent              | 8052-41-3      | 1.6         | GHS08                 | H304-372              |
| Ethylbenzene                  | 100-41-4       | 0.8         | GHS02-GHS07-<br>GHS08 | H225-304-332-351-373  |

### 4. First-Aid Measures

**FIRST AID - EYE CONTACT:** Immediately flush eyes with plenty of water for at least 15 minutes holding eyelids open. Get medical attention. Do NOT allow rubbing of eyes or keeping eyes closed.

**FIRST AID - SKIN CONTACT:** Wash skin with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists.

**FIRST AID - INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention. Do NOT use mouth-to-mouth resuscitation. If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

**FIRST AID - INGESTION:** Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. Get immediate medical attention. If swallowed, get medical attention.

### 5. Fire-Fighting Measures

**EXTINGUISHING MEDIA:** Alcohol Film Forming Foam, Carbon Dioxide, Dry Chemical, Dry Sand, Water Fog

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** FLASH POINT IS LESS THAN 20°F. EXTREMELY FLAMMABLE LIQUID AND VAPOR! Water spray may be ineffective. Closed containers may explode when exposed to extreme heat due to buildup of steam. Closed containers may explode when exposed to extreme heat. Vapors may form explosive mixtures with air. Vapors can travel to a source of ignition and flash back. Isolate from heat, electrical equipment, sparks and open flame. Perforation of the pressurized container may cause bursting of the can.

**SPECIAL FIREFIGHTING PROCEDURES:** Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion. Full protective equipment including self-contained breathing apparatus should be used. Evacuate area and fight fire from a safe distance. Use water spray to keep fire-exposed containers cool. Containers may explode when heated.

**Special Fire and Explosion Hazard (Combustible Dust):** No Information

## 6. Accidental Release Measures

**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:** Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Remove all sources of ignition, ventilate area and remove with inert absorbent and non-sparking tools. Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers. Ventilate area, isolate spilled material, and remove with inert absorbent. Dispose of contaminated absorbent, container, and unused contents in accordance with local, state, and federal regulations.

## 7. Handling and Storage

**HANDLING:** Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing and launder before reuse. Use only with adequate ventilation. Follow all SDS and label precautions even after container is emptied because it may retain product residues. Avoid breathing fumes, vapors, or mist. Avoid contact with eyes, skin and clothing.

**STORAGE:** Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Contents under pressure. Do not store above 120 ° F. Store large quantities in buildings designed and protected for storage of flammable aerosols. Keep away from heat, sparks, flame and sources of ignition. Avoid excess heat. Product should be stored in tightly sealed containers and protected from heat, moisture, and foreign materials.

**Advice on Safe Handling of Combustible Dust:** No Information

## 8. Exposure Controls / Personal Protection

| Chemical Name                 | CAS-No.    | Weight %<br>Less Than | ACGIH TLV-<br>TWA | ACGIH TLV-<br>STEL | OSHA PEL-TWA | OSHA PEL-<br>CEILING |
|-------------------------------|------------|-----------------------|-------------------|--------------------|--------------|----------------------|
| Zinc                          | 7440-66-6  | 50.0                  | N.E.              | N.E.               | N.E.         | N.E.                 |
| n-Butyl Acetate               | 123-86-4   | 20.0                  | 50 ppm            | 150 ppm            | 150 ppm      | N.E.                 |
| Propane                       | 74-98-6    | 15.0                  | N.E.              | N.E.               | 1000 ppm     | N.E.                 |
| Hydrotreated Light Distillate | 64742-47-8 | 10.0                  | N.E.              | N.E.               | N.E.         | N.E.                 |
| n-Butane                      | 106-97-8   | 5.0                   | N.E.              | 1000 ppm           | N.E.         | N.E.                 |
| Xylenes (o-, m-, p- isomers)  | 1330-20-7  | 5.0                   | 100 ppm           | 150 ppm            | 100 ppm      | N.E.                 |
| Zinc Oxide                    | 1314-13-2  | 5.0                   | 2 mg/m3           | 10 mg/m3           | 5 mg/m3      | N.E.                 |
| Stoddard Solvent              | 8052-41-3  | 5.0                   | 100 ppm           | N.E.               | 500 ppm      | N.E.                 |
| Ethylbenzene                  | 100-41-4   | 1.0                   | 20 ppm            | N.E.               | 100 ppm      | N.E.                 |

### PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof ventilation equipment. Provide general dilution of local exhaust ventilation in volume and pattern to keep TLV of hazardous ingredients below acceptable limits. Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation.

**RESPIRATORY PROTECTION:** A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. A NIOSH/MSHA approved air purifying respirator with organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

**SKIN PROTECTION:** Use gloves to prevent prolonged skin contact. Nitrile or Neoprene gloves may afford adequate skin protection.

**EYE PROTECTION:** Use safety eyewear designed to protect against splash of liquids.

**OTHER PROTECTIVE EQUIPMENT:** Refer to safety supervisor or industrial hygienist for further guidance regarding types of personal protective equipment and their applications.

**HYGIENIC PRACTICES:** Wash thoroughly with soap and water before eating, drinking or smoking. Remove contaminated clothing immediately and launder before reuse.

**Engineering Measures for Combustible Dust:** No Information

## 9. Physical and Chemical Properties

|                                 |                     |   |           |
|---------------------------------|---------------------|---|-----------|
| <b>Appearance:</b>              | Aerosolized Mist    | <b>Physical State:</b>                              | Liquid    |
| <b>Odor:</b>                    | Solvent Like        | <b>Odor Threshold:</b>                              | N.E.      |
| <b>Specific Gravity:</b>        | 1.323               | <b>pH:</b>  | N.A.      |
| <b>Freeze Point, °C:</b>        | ND                  | <b>Viscosity:</b>                                   | N.D.      |
| <b>Solubility in Water:</b>     | Slight              | <b>Partition Coefficient, n-octanol/<br/>water:</b> | N.D.      |
| <b>Decomposition Temp., °C:</b> | N.D.                | <b>Explosive Limits, vol%:</b>                      | 0.8 - 9.5 |
| <b>Boiling Range, °C:</b>       | -37 - 537           | <b>Flash Point, °C:</b>                             | -96       |
| <b>Flammability:</b>            | Supports Combustion | <b>Auto-ignition Temp., °C:</b>                     | N.D.      |
| <b>Evaporation Rate:</b>        | Faster than Ether   | <b>Vapor Pressure:</b>                              | N.D.      |
| <b>Vapor Density:</b>           | Heavier than Air    |   |           |

(See "Other information" Section for abbreviation legend)

## 10. Stability and Reactivity

**CONDITIONS TO AVOID:** Avoid temperatures above 120°F (49°C). Avoid all possible sources of ignition.

**INCOMPATIBILITY:** Incompatible with strong oxidizing agents, strong acids and strong alkalies.

**HAZARDOUS DECOMPOSITION:** By open flame, carbon monoxide and carbon dioxide. When heated to decomposition, it emits acrid smoke and irritating fumes. Contains solvents which may form carbon monoxide, carbon dioxide, and formaldehyde.

**HAZARDOUS POLYMERIZATION:** Will not occur under normal conditions.

**STABILITY:** This product is stable under normal storage conditions.

## 11. Toxicological Information

**EFFECTS OF OVEREXPOSURE - EYE CONTACT:** Causes Serious Eye Irritation

**EFFECTS OF OVEREXPOSURE - SKIN CONTACT:** No Information

**EFFECTS OF OVEREXPOSURE - INHALATION:** Harmful if inhaled. High gas, vapor, mist or dust concentrations may be harmful if inhaled. Avoid breathing fumes, spray, vapors, or mist. High vapor concentrations are irritating to the eyes, nose, throat and lungs. Prolonged or excessive inhalation may cause respiratory tract irritation.

**EFFECTS OF OVEREXPOSURE - INGESTION:** Harmful if swallowed.

**EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS:** May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. High concentrations may lead to central nervous system effects (drowsiness, dizziness, nausea, headaches, paralysis, and blurred vision) and/or damage. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Overexposure to xylene in laboratory animals has been associated with liver abnormalities, kidney, lung, spleen, eye and blood damage as well as reproductive disorders. Effects in humans, due to chronic overexposure, have included liver, cardiac abnormalities and nervous system damage. IARC lists Ethylbenzene as a possible human carcinogen (group 2B).

**PRIMARY ROUTE(S) OF ENTRY:** Eye Contact, Ingestion, Inhalation, Skin Absorption, Skin Contact

### ACUTE TOXICITY VALUES

The acute effects of this product have not been tested. Data on individual components are tabulated below:

| <u>CAS-No.</u> | <u>Chemical Name</u>          | <u>Oral LD50</u> | <u>Dermal LD50</u>  | <u>Vapor LC50</u> |
|----------------|-------------------------------|------------------|---------------------|-------------------|
| 7440-66-6      | Zinc                          | 630 mg/kg Rat    | N.E.                | N.E.              |
| 123-86-4       | n-Butyl Acetate               | 10768 mg/kg Rat  | >17600 mg/kg Rabbit | > 21 mg/L Rat     |
| 64742-47-8     | Hydrotreated Light Distillate | >5000 mg/kg Rat  | >2000 mg/kg Rabbit  | >5000 mg/L Rat    |
| 106-97-8       | n-Butane                      | N.E.             | N.E.                | 658 mg/L Rat      |
| 1330-20-7      | Xylenes (o-, m-, p- isomers)  | 3500 mg/kg Rat   | >4350 mg/kg Rabbit  | 29.08 mg/L Rat    |
| 1314-13-2      | Zinc Oxide                    | >5000 mg/kg Rat  | N.E.                | N.E.              |
| 100-41-4       | Ethylbenzene                  | 3500 mg/kg Rat   | 15400 mg/kg Rabbit  | 17.4 mg/L Rat     |

N.E. - Not Established

## 12. Ecological Information

**ECOLOGICAL INFORMATION:** Product is a mixture of listed components.

## 13. Disposal Information

**DISPOSAL INFORMATION:** Do not incinerate closed containers. This product as supplied is a USEPA defined ignitable hazardous waste. Dispose of unusable product as a hazardous waste (D001) in accordance with local, state, and federal regulation.

## 14. Transport Information

|                              | <u>Domestic (USDOT)</u>                     | <u>International (IMDG)</u> | <u>Air (IATA)</u>   | <u>TDG (Canada)</u> |
|------------------------------|---|-----------------------------|---------------------|---------------------|
| <b>UN Number:</b>            | N.A.  | 1950                        | 1950                | N.A.                |
| <b>Proper Shipping Name:</b> | Paint and Related Spray Products in Ltd Qty | Aerosols                    | Aerosols, flammable | Aerosols            |
| <b>Hazard Class:</b>         | N.A.  | 2                           | 2.1                 | N.A.                |
| <b>Packing Group:</b>        | N.A.  | N.A.                        | N.A.                | N.A.                |
| <b>Limited Quantity:</b>     | Yes   | Yes                         | Yes                 | Yes                 |

## 15. Regulatory Information

### U.S. Federal Regulations:

#### CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Gas under pressure, Carcinogenicity, Acute Toxicity (any route of exposure), Specific target organ toxicity (single or repeated exposure)

#### Sara Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

| <u>Chemical Name</u>         | <u>CAS-No.</u> |
|------------------------------|----------------|
| Zinc                         | 7440-66-6      |
| Xylenes (o-, m-, p- isomers) | 1330-20-7      |
| Zinc Oxide                   | 1314-13-2      |
| Ethylbenzene                 | 100-41-4       |

#### Toxic Substances Control Act:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(b) if exported from the United States:

No TSCA 12(b) components exist in this product.

### U.S. State Regulations:

#### California Proposition 65:

**WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).



**16. Other Information****HMIS RATINGS**

Health: 2\*      Flammability: 4      Physical Hazard: 0      Personal Protection: X

**NFPA RATINGS**

Health: 2      Flammability: 4      Instability: 0

Maximum Incremental Reactivity      0.68

SDS REVISION DATE:      1/29/2020

REASON FOR REVISION:      Substance and/or Product Properties Changed in Section(s):  
01 - Identification  
03 - Composition/Information on Ingredients  
09 - Physical & Chemical Properties  
Substance Hazardous Flag Changed  
Substance Hazard Threshold % Changed  
Revision Statement(s) Changed

Legend:      N.A. - Not Applicable, N.D. - Not Determined, N.E. - Not Established

The manufacturer believes, to the best of its knowledge, information and belief, the information contained herein to be accurate and reliable as of the date of this safety data sheet. However, because the conditions of handling, use, and storage of these materials are beyond our control, we assume no responsibility or liability for personal injury or property damage incurred by the use of these materials. The manufacturer makes no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations in this material safety data sheet are offered for the users' consideration and examination. It is the responsibility of the user to determine the final suitability of this information and to comply with all applicable international, federal, state, and local laws and regulations.



# SAFETY DATA SHEET

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200.

## Section 1: Product and Company Identification

|                         |   |
|-------------------------|---|
| Product Name:           | <b>KCI Coolant Fluid</b>                      |
| Product Identifier:     | Coolant Fluid                                 |
| Product Use:            |   |
| Item Code(s):           | CT1625501/CT1625502/CT1625503                 |
| SDS Code:               | 025   |
| Manufacturer:           | KCI, Inc.                                     |
| Physical Address:       | 1721 Toal Street<br>Charlotte, N.C. 28206     |
| Mailing Address:        | P.O. Box 26614<br>Charlotte, N.C. 28221       |
| Business Phone:         | 704-372-8435                                  |
| Business Fax:           | 704-333-5955                                  |
| E-mail Address:         | info@kciincorporated.com                      |
| Web Address:            | www.kciincorporated.com                       |
| Emergency Phone:        | CHEMTREC (24-Hour) 1-800-424-9300             |
| Date of Preparation:    | November 6, 2014 (Revised September 26, 2018) |
| OSHA Regulatory Status: | Regulated                                     |
| WHMIS Classification:   | D-2A  |

## Section 2: Hazard Identification

### Classification of the Substance or Mixture



GHS07

|                |             |
|----------------|-------------|
| Acute Toxicity | Category 4  |
| Eye Irritant   | Category 2B |

### Hazard Statements

|      |                        |
|------|------------------------|
| H302 | Harmful if swallowed.  |
| H320 | Causes eye irritation. |

### Information Concerning Particular Hazards for Human and Environment

The product does not have to be labeled due to the calculation procedure of international guidelines.

### Classification System

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

### Risk Phrases

**WARNING!** Harmful if swallowed. May cause damage to organs through prolonged or repeated exposure.

### Safety Phrases

Keep out of the reach of children.  
 Keep away from food, drink and animal feeding stuffs.  
 Wear suitable protective clothing.  
 If swallowed, seek medical advice immediately and show this container or label.

## HAZARD DESCRIPTION

---

### WHMIS Hazard Class

D2A - Very toxic material causing other toxic effects.



### NFPA Ratings (scale 0-4)



Health = 2  
Fire = 0  
Reactivity = 0

---

## Section 3: Composition and Information on Ingredients

---

CHEMICAL CHARACTERIZATION: Mixtures

DESCRIPTION: Mixture of the substances listed below with nonhazardous additions.

| Dangerous Components | CAS #    | Classification         | Weight %* |
|----------------------|----------|------------------------|-----------|
| ETHYLENE GLYCOL      | 107-21-1 | Acute Toxicity 4, H302 | 10 - <25% |

\*Exact concentrations are being withheld as trade secrets.

---

## Section 4: First Aid Measures

---

### First Aid Measures for Different Exposure Routes

GENERAL INFORMATION: No special measures required.

INHALATION: Supply fresh air, consult doctor in case of complaints.

SKIN CONTACT: Generally the product does not irritate the skin.

EYE CONTACT: Rinse opened eye for several minutes under running water.

INGESTION: If symptoms persist consult doctor.

### Most Important Symptoms and Effects, Both Acute and Delayed

No further relevant information available.

### Indication of Any Immediate Medical Attention and Special Treatment if Needed

No further relevant information available.

---

## Section 5: Fire Fighting Measures

---

SUITABLE EXTINGUISHING AGENTS: CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE: No further relevant information available.

PROTECTIVE EQUIPMENT: No special measures required.

---

## Section 6: Accidental Release Measures

---

### Personal Precautions, Protective Equipment and Emergency Procedures

PERSONAL PRECAUTIONS: Not required.

### Environmental Precautions

ENVIRONMENTAL PRECAUTIONS: Dilute with plenty of water. Do not allow to enter sewers, surface or ground water.

### Methods and Material for Containment and Cleaning Up

METHODS FOR CONTAINMENT: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

METHODS FOR CLEANING UP: Smaller quantities can be disposed of with household waste. For larger quantities, place in a sealed container and label as waste. Place in a safe area and comply with all federal, state, provincial and local regulations for disposal.

RECOMMENDED CLEANSING AGENT: Water, if necessary with cleansing agents.

### Reference to Other Sections

No dangerous substances are released.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

---

## Section 7: Handling and Storage

---

### Precautions for Safe Handling

No special measures required.

### Information about Protection Against Explosions and Fires

No special measures required.

### Conditions for Safe Storage, Including Any Incompatibilities

REQUIREMENTS TO BE MET BY STOREROOMS AND RECEPTACLES: No special requirements.

INFORMATION ABOUT STORAGE IN ONE COMMON STORAGE FACILITY: Not required.

FURTHER INFORMATION ABOUT STORAGE CONDITIONS: None.

### Specific End Use

Cooling fluid for welding systems.

---

## Section 8: Exposure Controls / Personal Protection

---

ADDITIONAL INFORMATION ABOUT DESIGN OF TECHNICAL SYSTEMS: No further data; see item 7.

### Control Parameters

EXPOSURE GUIDELINES: Components with limit values that require monitoring at the workplace

| Chemical Name   | CAS#     | Exposure Limits  |
|-----------------|----------|--|
| ETHYLENE GLYCOL | 107-21-1 | <b>Short-term value:</b> C 100* 20** mg/m <sup>3</sup> , C 50*** ppm<br><b>Long-term value:</b> 10** mg/m <sup>3</sup> |

\* aerosol; \*\* particulate; \*\*\* vapor

ADDITIONAL INFORMATION: The lists that were valid during the creation were used as basis.

## Individual Protection Measures, Such as Personal Protective Equipment

GENERAL PROTECTIVE AND HYGIENIC MEASURES: The usual precautionary measures for handling chemicals should be followed.

BREATHING EQUIPMENT: Not required.

PROTECTION OF HANDS: The glove material has to be impermeable and resistant to the product/ the substance/the preparation. Selection of the glove material depends on consideration of the penetration times, rates of diffusion and the degradation.

MATERIAL OF GLOVES: The selection of the suitable glove does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

EYE PROTECTION: Goggles recommended during refilling.

---

## Section 9: Physical and Chemical Properties

---

|  |   |
|--|---|
| <u>FORM</u> :                                    | Liquid  |
| <u>COLOR</u> :                                   | Colorless                                     |
| <u>ODOR</u> :                                    | Odorless                                      |
| <u>ODOR THRESHOLD</u> :                          | Not determined.                               |
| <u>pH-VALUE AT 20°C</u> :                        | 6   |
| <b>Property</b>                                  | <b>Values</b>                                 |
| <u>MELTING POINT/MELTING RANGE</u> :             | -7°C  |
| <u>BOILING POINT/BOILING RANGE</u> :             | 93°C  |
| <u>FLASH POINT</u> :                             | Not applicable.                               |
| <u>FLAMMABILITY (SOLID, GASEOUS)</u> :           | Not applicable.                               |
| <u>IGNITION TEMPERATURE</u> :                    | 410°C   |
| <u>DECOMPOSITION TEMPERATURE</u> :               | Not determined.                               |
| <u>AUTO-IGNITION</u> :                           | Product is not self-igniting.                 |
| <u>DANGER OF EXPLOSION</u> :                     | Product does not present an explosion hazard. |
| <u>EXPLOSION LIMITS</u> :                        |   |
| Lower:   | 3.2 Vol %                                     |
| Upper:   | 53.0 Vol %                                    |
| <u>VAPOR PRESSURE AT 20°C</u> :                  | 24 mm Hg                                      |
| <u>DENSITY AT 20°C</u> :                         | 1.025 g/cm <sup>3</sup>                       |
| <u>RELATIVE DENSITY</u> :                        | Not determined.                               |
| <u>VAPOR DENSITY AT 20°C</u> :                   | .610 (AIR = 1)                                |
| <u>EVAPORATION RATE AT 20°C</u> :                | 1.0 (BA =1)                                   |
| <u>SOLUBILITY IN/MISCIBILITY WITH WATER</u> :    | Fully miscible.                               |
| <u>PARTITION COEFFICIENT</u> : (n-octanol/water) | Not determined.                               |
| <u>VISCOSITY</u> :                               |   |
| Dynamic:   | Not determined.                               |
| Kinematic:                                       | Not determined.                               |
| <u>SOLVENT CONTENT</u> :                         |   |
| Organic solvents:                                | 0.0%  |

### Other Information

No further relevant information available.

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## Section 10: Stability and Reactivity

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THERMAL DECOMPOSITION/CONDITIONS TO BE AVOIDED: No decomposition if used according to specifications.

POSSIBILITY OF HAZARDOUS REACTIONS: No dangerous reactions known.

CONDITIONS TO AVOID: No further relevant information available.

INCOMPATIBLE MATERIALS: No further relevant information available.

HAZARDOUS DECOMPOSITION PRODUCTS: No dangerous decomposition products known.

---

## Section 11: Toxicological Information

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### Information on Toxicological Effects

• Acute toxicity

### Component Information

| Chemical Name               | LD50 Oral        | LD50 Dermal         |
|-----------------------------|------------------|---------------------|
| ETHYLENE GLYCOL<br>107-21-1 | 5840 mg/kg (rat) | 9530 mg/kg (rabbit) |

### Information on Toxicological Effects

SYMPTOMS: No further relevant information available.

### Primary Irritant Effect

SKIN CORROSION/IRRITATION: No irritating effect.

EYE DAMAGE/IRRITATION: No irritating effect.

SENSITIZATION: No sensitizing effects known.

### Additional Toxicological Information

The product is not subject to classification according to internally approved calculation methods for preparations. When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

CARCINOGENICITY:

### IARC (International Agency for Research on Cancer)

None of the ingredients are listed.

### NTP (National Toxicology Program)

None of the ingredients are listed.

---

## Section 12: Ecological Information

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### Ecotoxicity

AQUATIC TOXICITY: No further relevant information available.

PERSISTENCE AND DEGRADABILITY: No further relevant information available.

### Behavior in Environmental Systems

BIOACCUMULATIVE POTENTIAL: No further relevant information available.

MOBILITY IN SOIL: No further relevant information available.

### Additional Ecological Information

GENERAL NOTES: Water Hazard Class 1 (self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

OTHER ADVERSE EFFECTS: No further relevant information available.

---

## Section 13: Disposal Considerations

---

### Waste Treatment Methods

WASTE DISPOSAL METHODS: Smaller quantities can be disposed of with household waste.

CONTAMINATED PACKAGING: Place in a sealed container and label as waste. Place in a safe area and comply with all federal, state, provincial and local regulations for disposal.

RECOMMENDED CLEANSING AGENT: Water, if necessary with cleansing agents.

---

## Section 14: Transportation Information

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### UN-NUMBER

DOT, TDG, ADN, IMDG, IATA: Not available

### UN Proper Shipping Name

DOT, TDG, ADN, IMDG, IATA: Not available

### Transport Hazard Class(es)

DOT, TDG, ADN, IMDG, IATA  
CLASS: Not available

### Packing Group

DOT, TDG, IMDG, IATA: Not available

### Environmental Hazards

Marine pollutant: No

### Special Precautions for User

Not applicable

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

### UN "Model Regulation"

-

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## Section 15: Regulatory Information

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### Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

#### SARA

---

##### Section 355 (extremely hazardous substances):

None of the ingredients are listed.

##### Section 313 (Specific toxic chemical listings):

107-21-1 ETHYLENE GLYCOL

##### TSCA (Toxic Substances Control Act):

All ingredients are listed.

#### PROPOSITION 65

---

##### Chemicals known to cause cancer:

None of the ingredients are listed.

##### Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

##### Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

##### Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

## **CARCINOGENIC CATEGORIES**

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### **EPA (Environmental Protection Agency):**

None of the ingredients are listed.

### **TLV (Threshold Limit Value established by ACGIH):**

107-21-1 ETHYLENE GLYCOL

### **NIOSH-Ca (National Institute for Occupational Safety and Health):**

None of the ingredients are listed.

### **OSHA-Ca (Occupational Safety and Health Administration):**

None of the ingredients are listed.

## **CANADIAN SUBSTANCE LISTINGS**

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### **Canadian Domestic Substances List (DSL):**

All ingredients are listed.

### **Canadian Ingredient Disclosure List (limit 0.1%):**

None of the ingredients are listed.

### **Canadian Ingredient Disclosure List (limit 1%):**

107-21-1 ETHYLENE GLYCOL

## **PRODUCT RELATED HAZARD INFORMATION:**

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### **Risk Phrases**

Harmful if swallowed.

### **Safety Phrases**

Keep out of the reach of children.

Keep away from food, drink and animal feeding stuffs.

Wear suitable protective clothing.

If swallowed, seek medical advice immediately and show this container or label.

---

## **Section 16: Other Information**

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IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

NFPA: National Fire Protection Association (USA)

WHMIS: Workplace Hazardous Materials Information System (Canada)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

---

This SDS format meets ANSI Z400.1-1998, OSHA 1910.1200 and WHMIS requirements. KCI provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Product use and conditions of use are beyond the control of KCI. Warranty of materials is limited to test results of product performance as detailed in certificates of compliance. Interpretation of test results is the responsibility of end-user. No other warranties, expressed or implied, are made.





# SAFETY DATA SHEET

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200.

## Section 1: Product and Company Identification

|                         |   |
|-------------------------|---|
| Product Name:           | <b>KCI Coolant Fluid</b>                      |
| Product Identifier:     | Coolant Fluid                                 |
| Product Use:            |   |
| Item Code(s):           | CT1625501/CT1625502/CT1625503                 |
| SDS Code:               | 025   |
| Manufacturer:           | KCI, Inc.                                     |
| Physical Address:       | 1721 Toal Street<br>Charlotte, N.C. 28206     |
| Mailing Address:        | P.O. Box 26614<br>Charlotte, N.C. 28221       |
| Business Phone:         | 704-372-8435                                  |
| Business Fax:           | 704-333-5955                                  |
| E-mail Address:         | info@kciincorporated.com                      |
| Web Address:            | www.kciincorporated.com                       |
| Emergency Phone:        | CHEMTREC (24-Hour) 1-800-424-9300             |
| Date of Preparation:    | November 6, 2014 (Revised September 26, 2018) |
| OSHA Regulatory Status: | Regulated                                     |
| WHMIS Classification:   | D-2A  |

## Section 2: Hazard Identification

### Classification of the Substance or Mixture



GHS07

|                |             |
|----------------|-------------|
| Acute Toxicity | Category 4  |
| Eye Irritant   | Category 2B |

### Hazard Statements

|      |                        |
|------|------------------------|
| H302 | Harmful if swallowed.  |
| H320 | Causes eye irritation. |

### Information Concerning Particular Hazards for Human and Environment

The product does not have to be labeled due to the calculation procedure of international guidelines.

### Classification System

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

### Risk Phrases

**WARNING!** Harmful if swallowed. May cause damage to organs through prolonged or repeated exposure.

### Safety Phrases

Keep out of the reach of children.  
Keep away from food, drink and animal feeding stuffs.  
Wear suitable protective clothing.  
If swallowed, seek medical advice immediately and show this container or label.

## HAZARD DESCRIPTION

---

### WHMIS Hazard Class

D2A - Very toxic material causing other toxic effects.



### NFPA Ratings (scale 0-4)



Health = 2  
Fire = 0  
Reactivity = 0

---

## Section 3: Composition and Information on Ingredients

---

CHEMICAL CHARACTERIZATION: Mixtures

DESCRIPTION: Mixture of the substances listed below with nonhazardous additions.

| Dangerous Components | CAS #    | Classification         | Weight %* |
|----------------------|----------|------------------------|-----------|
| ETHYLENE GLYCOL      | 107-21-1 | Acute Toxicity 4, H302 | 10 - <25% |

\*Exact concentrations are being withheld as trade secrets.

---

## Section 4: First Aid Measures

---

### First Aid Measures for Different Exposure Routes

GENERAL INFORMATION: No special measures required.

INHALATION: Supply fresh air, consult doctor in case of complaints.

SKIN CONTACT: Generally the product does not irritate the skin.

EYE CONTACT: Rinse opened eye for several minutes under running water.

INGESTION: If symptoms persist consult doctor.

### Most Important Symptoms and Effects, Both Acute and Delayed

No further relevant information available.

### Indication of Any Immediate Medical Attention and Special Treatment if Needed

No further relevant information available.

---

## Section 5: Fire Fighting Measures

---

SUITABLE EXTINGUISHING AGENTS: CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE: No further relevant information available.

PROTECTIVE EQUIPMENT: No special measures required.

---

## Section 6: Accidental Release Measures

---

### Personal Precautions, Protective Equipment and Emergency Procedures

PERSONAL PRECAUTIONS: Not required.

### Environmental Precautions

ENVIRONMENTAL PRECAUTIONS: Dilute with plenty of water. Do not allow to enter sewers, surface or ground water.

### Methods and Material for Containment and Cleaning Up

METHODS FOR CONTAINMENT: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

METHODS FOR CLEANING UP: Smaller quantities can be disposed of with household waste. For larger quantities, place in a sealed container and label as waste. Place in a safe area and comply with all federal, state, provincial and local regulations for disposal.

RECOMMENDED CLEANSING AGENT: Water, if necessary with cleansing agents.

### Reference to Other Sections

No dangerous substances are released.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

---

## Section 7: Handling and Storage

---

### Precautions for Safe Handling

No special measures required.

### Information about Protection Against Explosions and Fires

No special measures required.

### Conditions for Safe Storage, Including Any Incompatibilities

REQUIREMENTS TO BE MET BY STOREROOMS AND RECEPTACLES: No special requirements.

INFORMATION ABOUT STORAGE IN ONE COMMON STORAGE FACILITY: Not required.

FURTHER INFORMATION ABOUT STORAGE CONDITIONS: None.

### Specific End Use

Cooling fluid for welding systems.

---

## Section 8: Exposure Controls / Personal Protection

---

ADDITIONAL INFORMATION ABOUT DESIGN OF TECHNICAL SYSTEMS: No further data; see item 7.

### Control Parameters

EXPOSURE GUIDELINES: Components with limit values that require monitoring at the workplace

| Chemical Name   | CAS#     | Exposure Limits  |
|-----------------|----------|--|
| ETHYLENE GLYCOL | 107-21-1 | <b>Short-term value:</b> C 100* 20** mg/m <sup>3</sup> , C 50*** ppm<br><b>Long-term value:</b> 10** mg/m <sup>3</sup> |

\* aerosol; \*\* particulate; \*\*\* vapor

ADDITIONAL INFORMATION: The lists that were valid during the creation were used as basis.

## Individual Protection Measures, Such as Personal Protective Equipment

GENERAL PROTECTIVE AND HYGIENIC MEASURES: The usual precautionary measures for handling chemicals should be followed.

BREATHING EQUIPMENT: Not required.

PROTECTION OF HANDS: The glove material has to be impermeable and resistant to the product/ the substance/the preparation. Selection of the glove material depends on consideration of the penetration times, rates of diffusion and the degradation.

MATERIAL OF GLOVES: The selection of the suitable glove does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

EYE PROTECTION: Goggles recommended during refilling.

---

## Section 9: Physical and Chemical Properties

---

|  |   |
|--|---|
| <u>FORM</u> :                                    | Liquid  |
| <u>COLOR</u> :                                   | Colorless                                     |
| <u>ODOR</u> :                                    | Odorless                                      |
| <u>ODOR THRESHOLD</u> :                          | Not determined.                               |
| <u>pH-VALUE AT 20°C</u> :                        | 6   |
| <b>Property</b>                                  | <b>Values</b>                                 |
| <u>MELTING POINT/MELTING RANGE</u> :             | -7°C  |
| <u>BOILING POINT/BOILING RANGE</u> :             | 93°C  |
| <u>FLASH POINT</u> :                             | Not applicable.                               |
| <u>FLAMMABILITY (SOLID, GASEOUS)</u> :           | Not applicable.                               |
| <u>IGNITION TEMPERATURE</u> :                    | 410°C   |
| <u>DECOMPOSITION TEMPERATURE</u> :               | Not determined.                               |
| <u>AUTO-IGNITION</u> :                           | Product is not self-igniting.                 |
| <u>DANGER OF EXPLOSION</u> :                     | Product does not present an explosion hazard. |
| <u>EXPLOSION LIMITS</u> :                        |   |
| Lower:   | 3.2 Vol %                                     |
| Upper:   | 53.0 Vol %                                    |
| <u>VAPOR PRESSURE AT 20°C</u> :                  | 24 mm Hg                                      |
| <u>DENSITY AT 20°C</u> :                         | 1.025 g/cm <sup>3</sup>                       |
| <u>RELATIVE DENSITY</u> :                        | Not determined.                               |
| <u>VAPOR DENSITY AT 20°C</u> :                   | .610 (AIR = 1)                                |
| <u>EVAPORATION RATE AT 20°C</u> :                | 1.0 (BA =1)                                   |
| <u>SOLUBILITY IN/MISCIBILITY WITH WATER</u> :    | Fully miscible.                               |
| <u>PARTITION COEFFICIENT</u> : (n-octanol/water) | Not determined.                               |
| <u>VISCOSITY</u> :                               |   |
| Dynamic:   | Not determined.                               |
| Kinematic:                                       | Not determined.                               |
| <u>SOLVENT CONTENT</u> :                         |   |
| Organic solvents:                                | 0.0%  |

### Other Information

No further relevant information available.

---

## Section 10: Stability and Reactivity

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THERMAL DECOMPOSITION/CONDITIONS TO BE AVOIDED: No decomposition if used according to specifications.

POSSIBILITY OF HAZARDOUS REACTIONS: No dangerous reactions known.

CONDITIONS TO AVOID: No further relevant information available.

INCOMPATIBLE MATERIALS: No further relevant information available.

HAZARDOUS DECOMPOSITION PRODUCTS: No dangerous decomposition products known.

---

## Section 11: Toxicological Information

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### Information on Toxicological Effects

• Acute toxicity

### Component Information

| Chemical Name               | LD50 Oral        | LD50 Dermal         |
|-----------------------------|------------------|---------------------|
| ETHYLENE GLYCOL<br>107-21-1 | 5840 mg/kg (rat) | 9530 mg/kg (rabbit) |

### Information on Toxicological Effects

SYMPTOMS: No further relevant information available.

### Primary Irritant Effect

SKIN CORROSION/IRRITATION: No irritating effect.

EYE DAMAGE/IRRITATION: No irritating effect.

SENSITIZATION: No sensitizing effects known.

### Additional Toxicological Information

The product is not subject to classification according to internally approved calculation methods for preparations. When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

CARCINOGENICITY:

### IARC (International Agency for Research on Cancer)

None of the ingredients are listed.

### NTP (National Toxicology Program)

None of the ingredients are listed.

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## Section 12: Ecological Information

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### Ecotoxicity

AQUATIC TOXICITY: No further relevant information available.

PERSISTENCE AND DEGRADABILITY: No further relevant information available.

### Behavior in Environmental Systems

BIOACCUMULATIVE POTENTIAL: No further relevant information available.

MOBILITY IN SOIL: No further relevant information available.

### Additional Ecological Information

GENERAL NOTES: Water Hazard Class 1 (self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

OTHER ADVERSE EFFECTS: No further relevant information available.

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## Section 13: Disposal Considerations

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### Waste Treatment Methods

WASTE DISPOSAL METHODS: Smaller quantities can be disposed of with household waste.

CONTAMINATED PACKAGING: Place in a sealed container and label as waste. Place in a safe area and comply with all federal, state, provincial and local regulations for disposal.

RECOMMENDED CLEANSING AGENT: Water, if necessary with cleansing agents.

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## Section 14: Transportation Information

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### UN-NUMBER

DOT, TDG, ADN, IMDG, IATA: Not available

### UN Proper Shipping Name

DOT, TDG, ADN, IMDG, IATA: Not available

### Transport Hazard Class(es)

DOT, TDG, ADN, IMDG, IATA  
CLASS: Not available

### Packing Group

DOT, TDG, IMDG, IATA: Not available

### Environmental Hazards

Marine pollutant: No

### Special Precautions for User

Not applicable

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

### UN "Model Regulation"

-

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## Section 15: Regulatory Information

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### Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

#### SARA

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##### Section 355 (extremely hazardous substances):

None of the ingredients are listed.

##### Section 313 (Specific toxic chemical listings):

107-21-1 ETHYLENE GLYCOL

##### TSCA (Toxic Substances Control Act):

All ingredients are listed.

#### PROPOSITION 65

---

##### Chemicals known to cause cancer:

None of the ingredients are listed.

##### Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

##### Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

##### Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

## **CARCINOGENIC CATEGORIES**

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### **EPA (Environmental Protection Agency):**

None of the ingredients are listed.

### **TLV (Threshold Limit Value established by ACGIH):**

107-21-1 ETHYLENE GLYCOL

### **NIOSH-Ca (National Institute for Occupational Safety and Health):**

None of the ingredients are listed.

### **OSHA-Ca (Occupational Safety and Health Administration):**

None of the ingredients are listed.

## **CANADIAN SUBSTANCE LISTINGS**

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### **Canadian Domestic Substances List (DSL):**

All ingredients are listed.

### **Canadian Ingredient Disclosure List (limit 0.1%):**

None of the ingredients are listed.

### **Canadian Ingredient Disclosure List (limit 1%):**

107-21-1 ETHYLENE GLYCOL

## **PRODUCT RELATED HAZARD INFORMATION:**

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### **Risk Phrases**

Harmful if swallowed.

### **Safety Phrases**

Keep out of the reach of children.

Keep away from food, drink and animal feeding stuffs.

Wear suitable protective clothing.

If swallowed, seek medical advice immediately and show this container or label.

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## **Section 16: Other Information**

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IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

NFPA: National Fire Protection Association (USA)

WHMIS: Workplace Hazardous Materials Information System (Canada)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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This SDS format meets ANSI Z400.1-1998, OSHA 1910.1200 and WHMIS requirements. KCI provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Product use and conditions of use are beyond the control of KCI. Warranty of materials is limited to test results of product performance as detailed in certificates of compliance. Interpretation of test results is the responsibility of end-user. No other warranties, expressed or implied, are made.



MARVEL OIL CO., INC.  
2250 W. Pinehurst Blvd., STE 150  
Addison, IL 60101

## SAFETY DATA SHEET

### 1. Product and Company Identification

#### 1.1 Product Identifier

Product Name: Marvel Air Tool Oil  
Product Code (SKU): MM85R1 (50100), MM080R (50093) - See Section 15 for discontinued SKU's

#### 1.2 Relevant Identified Uses Of The Substance

Product Use: Engine Oil Additive – Fuel additive (EPA Registered)

#### 1.3 Details of the Supplier of the SDS

Company Name: Marvel Oil Company, Inc.  
Street Address: 2250 W. Pinehurst Blvd., Suite 150  
City, State, Zip Code: Addison, IL 60101

#### 1.4 Emergency Telephone Numbers

Phone Number: 1(630)455-3700  
Fax Number: 1(630)455-3868  
Transportation: 1(800)424-9300 (CHEMTREC)  
Medical Assistance: Call your local Poison Control Center

### 2. Hazard Identification:

#### 2.1 Classification of the Substance or Mixture

Hazard Classification: Flammable liquid 3  
Skin irritation 2  
Reproductive Toxicity 2  
Aspiration toxicity 1

#### 2.2 Label Elements



Pictogram:

Signal Word: Danger

Hazard Statement: Flammable liquid and vapor. Causes skin irritation.  
Suspected of damaging fertility of the un-born child. May be fatal if swallowed and enters airways.

Precautionary Statement: Keep away from heat, sparks, open flames or hot surfaces. Do not smoke. Keep containers tightly closed. Ground all containers and receiving equipment. Use explosion proof electrical, ventilation, and lighting equipment. Use only non-sparking tools. Take precautionary measures against static



discharge. Wear protective gloves, clothing, eye glasses and face shield. Do not handle until all safety precautions have been read and understood. Wash hands thoroughly after handling. If exposed, get medical attention. If on skin or hair, remove immediately all contaminated clothing and launder before re-use. Wash skin with soap and water. If skin irritation occurs, get medical attention. If swallowed, immediately call a poison control center or doctor. Do NOT induce vomiting. Store in a well ventilated place. Dispose of contents and container in accordance with all local, state, national and international regulations.

### 2.3 Other Hazards

Description of additional HNOC: None

## 3. Information on Ingredients:

3.1 Substance not applicable

### 3.2 Mixture

| <u>Component</u>                                      | <u>CAS Number</u> | <u>Concentration (wt%)</u> |
|---|-------------------|----------------------------|
| Petroleum Distillates (Hydrotreated Heavy Naphthenic) | 64742-52-5        | 60-100%                    |
| Petroleum Distillates (Stoddard Solvent)              | 8052-41-3         | 10-30%                     |
| Tricresyl Phosphate                                   | 1330-78-5         | 0.1-1.0%                   |
| Ortho Dichlorobenzene                                 | 95-50-1           | 0.1-1.0%                   |
| Para Dichlorobenzene                                  | 106-46-7          | <0.1%                      |

## 4. First Aid Measures:

### 4.1 Description of First Aid Measures

**Inhalation:** Remove to fresh air and promote deep breathing. Get medical attention if effects persist or you feel un-well.

**Skin:** In case of skin contact, wash thoroughly with soap and water. Remove contaminated clothing and footwear. Launder clothing before re-use. Call a physician if irritation develops or persists.

**Eyes:** In case of eye contact, immediately flush eyes with plenty of water. Remove contact lenses if worn. If irritation persists, get medical attention

**Ingestion:** If swallowed, do not induce vomiting. Never give anything by mouth to an unconscious person. Immediately call a poison control center or physician.

### 4.2 Most important symptoms and effects – acute and chronic

**Inhalation:** May cause respiratory tract irritation. Vapors may cause drowsiness or dizziness.

**Skin:** Cause skin irritation. Symptoms may include redness, edema, drying, defatting, and cracking of skin.

**Eyes:** May cause temporary eye irritation. Symptoms may include discomfort or pain, excess blinking and tearing, with redness and swelling.

**Ingestion:** May be fatal if swallowed and enters airways. This product may be aspirated into the lungs and cause chemical pneumonitis. May cause stomach distress, nausea, and vomiting.

#### **4.3 Indication of any immediate medical attention and special treatment**

Symptoms may not appear immediately. Seek medical attention if effects develop or persist and you feel un-well.

### **5. Fire Fighting Measures:**

#### **5.1 Extinguishing media**

Carbon dioxide, dry chemical, and alcohol foam

#### **5.2 Special hazards arising from the substance or mixture**

CO<sub>2</sub>, CO, and hydrocarbons

#### **5.3 Advice for Fire Fighters**

Keep up wind of fire. Wear full firefighting turn out gear (full bunker gear) and respiratory protection (SCBA). Cool closed containers exposed to fire with water. See Section 8 for personal protection.

### **6. Accidental Release Measures:**

#### **6.1 Personal precautions, protective equipment, and emergency procedures**

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate all source of ignition.

#### **6.2 Methods and materials for containment and clean up**

**For containment:** Contain and absorb spill with inert material. Place in suitable container for disposal. Do not flush to sewer or allow to enter waterways. See section 8 for PPE.

**For clean up:** Take up material and place in a suitable container. Vapors may be heavier than air and may travel along the ground to a distant source of ignition. Provide adequate ventilation.

### **7. Handling and Storage**

#### **7.1 Precautions for safe handling**

Keep away from source of ignition. Do not smoke. Take precaution to eliminate static discharge. Avoid contact with skin and eyes. Avoid breathing vapor or mist. Do not swallow. Do not eat or drink while handling. Wash hands with soap and water after handling. Use only non-sparking tools.

#### **7.2 Conditions for safe storage including incompatibilities**

Keep out of reach of children. Store in a well ventilated place. Do not store above 49°C (120°F).

#### **7.3 Specific end uses**

**Shelf Life:** Shelf life is considered to be 7 – 10 years when properly stored.

## 8. Exposure Control/Personal Protection:

### 8.1 Control parameters

| <u>Exposure Limits</u>                                | <u>8 hr TWA:</u> | <u>(OSHA PEL)</u> | <u>(ACGIH TWA)</u> |
|---|------------------|-------------------|--------------------|
| Petroleum Distillates (Hydrotreated Heavy Naphthenic) |                  | not applicable    | not applicable     |
| Petroleum Distillates (Stoddard Solvent)              |                  | 500 ppm           | 100 ppm            |
| Tricresyl Phosphate                                   |                  | not applicable    | not applicable     |
| Ortho Dichlorobenzene                                 |                  | 50 ppm            | 25 ppm             |
| Para Dichlorobenzene                                  |                  | 75 ppm            | 10 ppm             |

### 8.2 Exposure controls

Use adequate ventilation to keep exposure below recommended limits. Ensure that eye wash station and safety shower are close to work station.

**Hand Protection Equipment:** Wear chemical resistant gloves to prevent skin contact.

**Eye Protection Equipment:** Wear safety glasses or splash goggles to prevent eye contact.

**Skin and Body Protection:** Wear suitable protective clothing.

**Respiration/Ventilation Protection Requirements:** Provide good ventilation.

**Ingestion Protection Requirements:** Do not eat, drink or smoke while handling. Wash hands with soap and water after handling. Launder all clothing and foot wear before re-use.

## 9. Physical And Chemical Properties:

### 9.1 Information of basic chemical and physical properties

|   |  |
|---|--|
| <b>Physical Form:</b>                           | thin liquid  |
| <b>Color:</b>                                   | clear red  |
| <b>Odor:</b>                                    | typical oily   |
| <b>Odor Threshold:</b>                          | not available  |
| <b>pH:</b>                                      | not applicable – oil based product   |
| <b>Melting Point/Freeze Point:</b>              | -51°C (-60°F)  |
| <b>Initial Boiling Point:</b>                   | not available  |
| <b>Flash Point (Seta Closed Cup):</b>           | 53°C (128°F)   |
| <b>Flammability Limits:</b>                     | <b>Explosive Limits:</b> <b>Upper:</b> not available <b>Lower:</b> not available |
| <b>Evaporation Rate:</b>                        | not available  |
| <b>Flammability Solid/Gas:</b>                  | not applicable   |
| <b>Vapor Pressure:</b>                          | not available  |
| <b>Vapor Density:</b>                           | not available  |
| <b>Specific Gravity:</b>                        | 0.876  |
| <b>Solubility in Water:</b>                     | insoluble  |
| <b>Auto Ignition Temperature:</b>               | not available  |
| <b>Partition coefficient (n/octonol/water):</b> | not available  |
| <b>Viscosity (Kinimatic @ 100°C):</b>           | 2.0 – 3.0 cSt  |

### 9.2 Other information

|                                    |        |
|------------------------------------|--------|
| <b>% NVM by Weight:</b>            | 75.0%  |
| <b>% VOC Content (California):</b> | 24.92% |

## 10. Stability and Reactivity:

### 10.1 Reactivity

Does not react under normal conditions

### 10.2 Chemical stability

Stable

### 10.3 Possibility of hazardous reactions

Does not react under normal conditions

### 10.4 Conditions to avoid

Heat and incompatible materials

### 10.5 Incompatible materials

Strong oxidizers such as bleach and peroxides

### 10.6 Hazardous decomposition products

CO<sub>2</sub>, CO and hydrocarbons

## 11. Toxicological Information:

### 11.1 Information on Toxicological effects

#### Marvel Mystery Oil

|                       |                 |
|-----------------------|-----------------|
| LD50 – Oral Rat       | >2000 mg/Kg     |
| LD50 – Dermal Rabbit  | >2000 mg/Kg     |
| LC50 – Inhalation Rat | >20 mg/L (4 hr) |

#### Petroleum Distillates Hydrotreated Heavy Naphthenic (64742-52-5)

|                       |                |
|-----------------------|----------------|
| LD50 – Oral Rat       | >5000 mg/Kg    |
| LD50 – Dermal Rabbit  | >5000 mg/Kg    |
| LC50 – Inhalation Rat | >5 mg/L (4 hr) |

#### Tricresyl Phosphate (1330-78-5)

|                 |            |
|-----------------|------------|
| LD50 – Oral Rat | 3000 mg/Kg |
|-----------------|------------|

#### o-Dichlorobenzene (95-50-1)

|                       |                  |
|-----------------------|------------------|
| LD50 – Oral Rat       | 500 mg/Kg        |
| LD50 – Dermal Rabbit  | >10000 mg/Kg     |
| LC50 – Inhalation Rat | 8.15 mg/L (4 hr) |

#### p-Dichlorobenzene (106-46-7)

|                      |             |
|----------------------|-------------|
| LD50 – Oral Rat      | >2000 mg/Kg |
| LD50 – Dermal Rabbit | >2000 mg/Kg |

Skin corrosion/irritation

Causes skin irritation

Serious eye damage/irritation

Based on available data, classification data are not met

Respiratory or skin sensitization

Based on available data, classification data are not met

Germ cell mutagenicity

Based on available data, classification data are not met

Carcinogenicity

Based on available data, classification data are not met

o-Dichlorobenzene (95-50-1)

IARC Group 3 – Not Classified

|  |  |
|--|--|
| p-dichlorobenzene (106-46-7)               | IARC Group 2B – Possible carcinogen to humans.<br>NTP 1-Evidence of Carcinogenicity 3, Reasonably anticipated to be a human Carcinogen                                       |
| Reproductive toxicity                      | Suspected of damaging fertility of un-born child   |
| Specific target organs – single exposure   | Based on available data, classification data are not met   |
| Specific target organs – repeated exposure | Based on available data, classification data are not met   |
| Aspiration hazard                          | May be fatal if swallowed and enters air ways.   |
| Symptoms/injuries after inhalation         | May cause respiratory tract irritation. Vapors may cause drowsiness and dizziness.   |
| Symptoms/injuries after skin contact       | Cause skin irritation. Symptoms may include redness, edema, drying, defatting, and cracking of skin.   |
| Symptoms/injuries after eye contact        | May cause temporary eye irritation. Symptoms may include discomfort or pain, excess blinking and tearing, with redness and swelling.   |
| Symptoms/injuries after ingestion          | May be fatal if swallowed and enters airways. This product may be aspirated into the lungs and cause chemical pneumonitis. May cause stomach distress, nausea, and vomiting. |

## **12. Ecological Information:**

### **12.1 Toxicity**

Not recommended for release into aquatic systems without treatment

### **12.2 Persistence and degradability**

Not established

### **12.3 Bioaccumulative potential**

Not established

### **12.4 Mobility in soil**

Not established

### **12.5 Other adverse effects**

None known

## **13. Disposal Considerations:**

### **13.1 Waste treatment methods**

**RCRA Hazardous Waste:**

**Waste Disposal Method:**

**Waste Disposal Vessel:**

Regulated as a hazardous waste (D-001 Ignitable).  
Dispose of in accordance with local, state and federal regulations  
Metal drums are recommended.

## **14. Transportation Information:**

### **14.1 UN number**

1268

### **14.2 UN Proper shipping name**

Petroleum Distillate n.o.s.

### 14.3 Transport Hazard class

3

### 14.4 Packaging group

III

### 14.5 Marine Pollutant

No

### 14.6 Transportation in Bulk

Not applicable

### 14.7 Special precautions

Use limited quantities

## 15. Regulatory Information:

### 15.1 US Federal Regulations

**TSCA Status:** All ingredients are commercially available and listed by the manufacturer under TSCA.

### 15.2 Foreign Regulations

**Canadian Status:** All materials contained in this product are listed on the Canadian Domestic Substance List (DSL). Consult Turtle Wax, Inc. regarding status of ingredients.

**European Union:** All materials contained in this product are listed on EINECS.

**AICS:** All materials are registered for AICS (Australia)

### 15.3 State Regulations

#### State Regulatory Information:

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the SDS may also be applicable for state requirements. For details on your regulatory requirements, contact the appropriate agency in your state.

#### California Prop 65:

| <u>CAS Number</u>            | <u>Concentration</u> | <u>State Code</u> |
|------------------------------|----------------------|-------------------|
| p-Dichlorobenzene (106-46-7) | <0.1%                | Cancer            |

### 15.4 HMIS & NFPA Classifications

|                      |              |   |
|----------------------|--------------|---|
| HMIS Classification: | Health       | 2 |
|                      | Flammability | 2 |
|                      | Reactivity   | 0 |
| NFPA Classification: | Health       | 2 |
|                      | Flammability | 2 |

Reactivity 0

**15.5 Discontinued SKU's** All discontinued SKU's used this same formula.

MM080, MM085, MM85R, MM086, MM088R, MM089

**16. Other Information:**

|                          |  |
|--------------------------|--|
| <b>Reason For Issue</b>  | Address Update                                   |
| <b>Prepared By</b>       | James Heidel                                     |
| <b>Preparer's Title</b>  | Technical Director, R&D                          |
| <b>SDS Administrator</b> | Jean Mayszak - Technical Compliance Manager, R&D |
| <b>Approval Date</b>     | January 26, 2017                                 |
| <b>Supersedes Date</b>   | March 10, 2015                                   |
| <b>Revision Number</b>   | #12  |

This information is, to the best of Turtle Wax, Inc.'s knowledge and belief, accurate and reliable. However, no representation, warranty, or guarantee is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy oneself as to the suitability and completeness of such information for their own particular use.



MARVEL OIL CO., INC.  
2250 W. Pinehurst Blvd., STE 150  
Addison, IL 60101

## SAFETY DATA SHEET

### 1. Product and Company Identification

#### 1.1 Product Identifier

Product Name: Marvel Air Tool Oil  
Product Code (SKU): MM85R1 (50100), MM080R (50093) - See Section 15 for discontinued SKU's

#### 1.2 Relevant Identified Uses Of The Substance

Product Use: Engine Oil Additive – Fuel additive (EPA Registered)

#### 1.3 Details of the Supplier of the SDS

Company Name: Marvel Oil Company, Inc.  
Street Address: 2250 W. Pinehurst Blvd., Suite 150  
City, State, Zip Code: Addison, IL 60101

#### 1.4 Emergency Telephone Numbers

Phone Number: 1(630)455-3700  
Fax Number: 1(630)455-3868  
Transportation: 1(800)424-9300 (CHEMTREC)  
Medical Assistance: Call your local Poison Control Center

### 2. Hazard Identification:

#### 2.1 Classification of the Substance or Mixture

Hazard Classification: Flammable liquid 3  
Skin irritation 2  
Reproductive Toxicity 2  
Aspiration toxicity 1

#### 2.2 Label Elements



Pictogram:

Signal Word: Danger

Hazard Statement: Flammable liquid and vapor. Causes skin irritation. Suspected of damaging fertility of the un-born child. May be fatal if swallowed and enters airways.

Precautionary Statement: Keep away from heat, sparks, open flames or hot surfaces. Do not smoke. Keep containers tightly closed. Ground all containers and receiving equipment. Use explosion proof electrical, ventilation, and lighting equipment. Use only non-sparking tools. Take precautionary measures against static



discharge. Wear protective gloves, clothing, eye glasses and face shield. Do not handle until all safety precautions have been read and understood. Wash hands thoroughly after handling. If exposed, get medical attention. If on skin or hair, remove immediately all contaminated clothing and launder before re-use. Wash skin with soap and water. If skin irritation occurs, get medical attention. If swallowed, immediately call a poison control center or doctor. Do NOT induce vomiting. Store in a well ventilated place. Dispose of contents and container in accordance with all local, state, national and international regulations.

### 2.3 Other Hazards

Description of additional HNOC: None

## 3. Information on Ingredients:

3.1 Substance not applicable

### 3.2 Mixture

| <u>Component</u>                                      | <u>CAS Number</u> | <u>Concentration (wt%)</u> |
|---|-------------------|----------------------------|
| Petroleum Distillates (Hydrotreated Heavy Naphthenic) | 64742-52-5        | 60-100%                    |
| Petroleum Distillates (Stoddard Solvent)              | 8052-41-3         | 10-30%                     |
| Tricresyl Phosphate                                   | 1330-78-5         | 0.1-1.0%                   |
| Ortho Dichlorobenzene                                 | 95-50-1           | 0.1-1.0%                   |
| Para Dichlorobenzene                                  | 106-46-7          | <0.1%                      |

## 4. First Aid Measures:

### 4.1 Description of First Aid Measures

**Inhalation:** Remove to fresh air and promote deep breathing. Get medical attention if effects persist or you feel un-well.

**Skin:** In case of skin contact, wash thoroughly with soap and water. Remove contaminated clothing and footwear. Launder clothing before re-use. Call a physician if irritation develops or persists.

**Eyes:** In case of eye contact, immediately flush eyes with plenty of water. Remove contact lenses if worn. If irritation persists, get medical attention

**Ingestion:** If swallowed, do not induce vomiting. Never give anything by mouth to an unconscious person. Immediately call a poison control center or physician.

### 4.2 Most important symptoms and effects – acute and chronic

**Inhalation:** May cause respiratory tract irritation. Vapors may cause drowsiness or dizziness.

**Skin:** Cause skin irritation. Symptoms may include redness, edema, drying, defatting, and cracking of skin.

**Eyes:** May cause temporary eye irritation. Symptoms may include discomfort or pain, excess blinking and tearing, with redness and swelling.

**Ingestion:** May be fatal if swallowed and enters airways. This product may be aspirated into the lungs and cause chemical pneumonitis. May cause stomach distress, nausea, and vomiting.

### **4.3 Indication of any immediate medical attention and special treatment**

Symptoms may not appear immediately. Seek medical attention if effects develop or persist and you feel un-well.

## **5. Fire Fighting Measures:**

### **5.1 Extinguishing media**

Carbon dioxide, dry chemical, and alcohol foam

### **5.2 Special hazards arising from the substance or mixture**

CO<sub>2</sub>, CO, and hydrocarbons

### **5.3 Advice for Fire Fighters**

Keep up wind of fire. Wear full firefighting turn out gear (full bunker gear) and respiratory protection (SCBA). Cool closed containers exposed to fire with water. See Section 8 for personal protection.

## **6. Accidental Release Measures:**

### **6.1 Personal precautions, protective equipment, and emergency procedures**

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate all source of ignition.

### **6.2 Methods and materials for containment and clean up**

**For containment:** Contain and absorb spill with inert material. Place in suitable container for disposal. Do not flush to sewer or allow to enter waterways. See section 8 for PPE.

**For clean up:** Take up material and place in a suitable container. Vapors may be heavier than air and may travel along the ground to a distant source of ignition. Provide adequate ventilation.

## **7. Handling and Storage**

### **7.1 Precautions for safe handling**

Keep away from source of ignition. Do not smoke. Take precaution to eliminate static discharge. Avoid contact with skin and eyes. Avoid breathing vapor or mist. Do not swallow. Do not eat or drink while handling. Wash hands with soap and water after handling. Use only non-sparking tools.

### **7.2 Conditions for safe storage including incompatibilities**

Keep out of reach of children. Store in a well ventilated place. Do not store above 49°C (120°F).

### **7.3 Specific end uses**

**Shelf Life:** Shelf life is considered to be 7 – 10 years when properly stored.

## 8. Exposure Control/Personal Protection:

### 8.1 Control parameters

| <u>Exposure Limits</u>                                | <u>8 hr TWA:</u> | <u>(OSHA PEL)</u> | <u>(ACGIH TWA)</u> |
|---|------------------|-------------------|--------------------|
| Petroleum Distillates (Hydrotreated Heavy Naphthenic) |                  | not applicable    | not applicable     |
| Petroleum Distillates (Stoddard Solvent)              |                  | 500 ppm           | 100 ppm            |
| Tricresyl Phosphate                                   |                  | not applicable    | not applicable     |
| Ortho Dichlorobenzene                                 |                  | 50 ppm            | 25 ppm             |
| Para Dichlorobenzene                                  |                  | 75 ppm            | 10 ppm             |

### 8.2 Exposure controls

Use adequate ventilation to keep exposure below recommended limits. Ensure that eye wash station and safety shower are close to work station.

**Hand Protection Equipment:** Wear chemical resistant gloves to prevent skin contact.

**Eye Protection Equipment:** Wear safety glasses or splash goggles to prevent eye contact.

**Skin and Body Protection:** Wear suitable protective clothing.

**Respiration/Ventilation Protection Requirements:** Provide good ventilation.

**Ingestion Protection Requirements:** Do not eat, drink or smoke while handling. Wash hands with soap and water after handling. Launder all clothing and foot wear before re-use.

## 9. Physical And Chemical Properties:

### 9.1 Information of basic chemical and physical properties

|   |  |
|---|--|
| <b>Physical Form:</b>                           | thin liquid  |
| <b>Color:</b>                                   | clear red  |
| <b>Odor:</b>                                    | typical oily   |
| <b>Odor Threshold:</b>                          | not available  |
| <b>pH:</b>                                      | not applicable – oil based product   |
| <b>Melting Point/Freeze Point:</b>              | -51°C (-60°F)  |
| <b>Initial Boiling Point:</b>                   | not available  |
| <b>Flash Point (Seta Closed Cup):</b>           | 53°C (128°F)   |
| <b>Flammability Limits:</b>                     | <b>Explosive Limits:</b> <b>Upper:</b> not available <b>Lower:</b> not available |
| <b>Evaporation Rate:</b>                        | not available  |
| <b>Flammability Solid/Gas:</b>                  | not applicable   |
| <b>Vapor Pressure:</b>                          | not available  |
| <b>Vapor Density:</b>                           | not available  |
| <b>Specific Gravity:</b>                        | 0.876  |
| <b>Solubility in Water:</b>                     | insoluble  |
| <b>Auto Ignition Temperature:</b>               | not available  |
| <b>Partition coefficient (n/octonol/water):</b> | not available  |
| <b>Viscosity (Kinimatic @ 100°C):</b>           | 2.0 – 3.0 cSt  |

### 9.2 Other information

|                                    |        |
|------------------------------------|--------|
| <b>% NVM by Weight:</b>            | 75.0%  |
| <b>% VOC Content (California):</b> | 24.92% |

## 10. Stability and Reactivity:

### 10.1 Reactivity

Does not react under normal conditions

### 10.2 Chemical stability

Stable

### 10.3 Possibility of hazardous reactions

Does not react under normal conditions

### 10.4 Conditions to avoid

Heat and incompatible materials

### 10.5 Incompatible materials

Strong oxidizers such as bleach and peroxides

### 10.6 Hazardous decomposition products

CO<sub>2</sub>, CO and hydrocarbons

## 11. Toxicological Information:

### 11.1 Information on Toxicological effects

#### Marvel Mystery Oil

|                       |                 |
|-----------------------|-----------------|
| LD50 – Oral Rat       | >2000 mg/Kg     |
| LD50 – Dermal Rabbit  | >2000 mg/Kg     |
| LC50 – Inhalation Rat | >20 mg/L (4 hr) |

#### Petroleum Distillates Hydrotreated Heavy Naphthenic (64742-52-5)

|                       |                |
|-----------------------|----------------|
| LD50 – Oral Rat       | >5000 mg/Kg    |
| LD50 – Dermal Rabbit  | >5000 mg/Kg    |
| LC50 – Inhalation Rat | >5 mg/L (4 hr) |

#### Tricresyl Phosphate (1330-78-5)

|                 |            |
|-----------------|------------|
| LD50 – Oral Rat | 3000 mg/Kg |
|-----------------|------------|

#### o-Dichlorobenzene (95-50-1)

|                       |                  |
|-----------------------|------------------|
| LD50 – Oral Rat       | 500 mg/Kg        |
| LD50 – Dermal Rabbit  | >10000 mg/Kg     |
| LC50 – Inhalation Rat | 8.15 mg/L (4 hr) |

#### p-Dichlorobenzene (106-46-7)

|                      |             |
|----------------------|-------------|
| LD50 – Oral Rat      | >2000 mg/Kg |
| LD50 – Dermal Rabbit | >2000 mg/Kg |

Skin corrosion/irritation

Causes skin irritation

Serious eye damage/irritation

Based on available data, classification data are not met

Respiratory or skin sensitization

Based on available data, classification data are not met

Germ cell mutagenicity

Based on available data, classification data are not met

Carcinogenicity

Based on available data, classification data are not met

o-Dichlorobenzene (95-50-1)

IARC Group 3 – Not Classified

|  |  |
|--|--|
| p-dichlorobenzene (106-46-7)               | IARC Group 2B – Possible carcinogen to humans.<br>NTP 1-Evidence of Carcinogenicity 3, Reasonably anticipated to be a human Carcinogen                                       |
| Reproductive toxicity                      | Suspected of damaging fertility of un-born child   |
| Specific target organs – single exposure   | Based on available data, classification data are not met   |
| Specific target organs – repeated exposure | Based on available data, classification data are not met   |
| Aspiration hazard                          | May be fatal if swallowed and enters air ways.   |
| Symptoms/injuries after inhalation         | May cause respiratory tract irritation. Vapors may cause drowsiness and dizziness.   |
| Symptoms/injuries after skin contact       | Cause skin irritation. Symptoms may include redness, edema, drying, defatting, and cracking of skin.   |
| Symptoms/injuries after eye contact        | May cause temporary eye irritation. Symptoms may include discomfort or pain, excess blinking and tearing, with redness and swelling.   |
| Symptoms/injuries after ingestion          | May be fatal if swallowed and enters airways. This product may be aspirated into the lungs and cause chemical pneumonitis. May cause stomach distress, nausea, and vomiting. |

## **12. Ecological Information:**

### **12.1 Toxicity**

Not recommended for release into aquatic systems without treatment

### **12.2 Persistence and degradability**

Not established

### **12.3 Bioaccumulative potential**

Not established

### **12.4 Mobility in soil**

Not established

### **12.5 Other adverse effects**

None known

## **13. Disposal Considerations:**

### **13.1 Waste treatment methods**

**RCRA Hazardous Waste:**

Regulated as a hazardous waste (D-001 Ignitable).

**Waste Disposal Method:**

Dispose of in accordance with local, state and federal regulations

**Waste Disposal Vessel:**

Metal drums are recommended.

## **14. Transportation Information:**

### **14.1 UN number**

1268

### **14.2 UN Proper shipping name**

Petroleum Distillate n.o.s.

**14.3 Transport Hazard class**

3

**14.4 Packaging group**

III

**14.5 Marine Pollutant**

No

**14.6 Transportation in Bulk**

Not applicable

**14.7 Special precautions**

Use limited quantities

**15. Regulatory Information:****15.1 US Federal Regulations**

**TSCA Status:** All ingredients are commercially available and listed by the manufacturer under TSCA.

**15.2 Foreign Regulations**

**Canadian Status:** All materials contained in this product are listed on the Canadian Domestic Substance List (DSL). Consult Turtle Wax, Inc. regarding status of ingredients.

**European Union:** All materials contained in this product are listed on EINECS.

**AICS:** All materials are registered for AICS (Australia)

**15.3 State Regulations****State Regulatory Information:**

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the SDS may also be applicable for state requirements. For details on your regulatory requirements, contact the appropriate agency in your state.

**California Prop 65:**

| <u>CAS Number</u>            | <u>Concentration</u> | <u>State Code</u> |
|------------------------------|----------------------|-------------------|
| p-Dichlorobenzene (106-46-7) | <0.1%                | Cancer            |

**15.4 HMIS & NFPA Classifications**

|                      |              |   |
|----------------------|--------------|---|
| HMIS Classification: | Health       | 2 |
|                      | Flammability | 2 |
|                      | Reactivity   | 0 |
| NFPA Classification: | Health       | 2 |
|                      | Flammability | 2 |

Reactivity 0

**15.5 Discontinued SKU's** All discontinued SKU's used this same formula.

MM080, MM085, MM85R, MM086, MM088R, MM089

**16. Other Information:**

|                          |  |
|--------------------------|--|
| <b>Reason For Issue</b>  | Address Update                                   |
| <b>Prepared By</b>       | James Heidel                                     |
| <b>Preparer's Title</b>  | Technical Director, R&D                          |
| <b>SDS Administrator</b> | Jean Mayszak - Technical Compliance Manager, R&D |
| <b>Approval Date</b>     | January 26, 2017                                 |
| <b>Supersedes Date</b>   | March 10, 2015                                   |
| <b>Revision Number</b>   | #12  |

This information is, to the best of Turtle Wax, Inc.'s knowledge and belief, accurate and reliable. However, no representation, warranty, or guarantee is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy oneself as to the suitability and completeness of such information for their own particular use.



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## Section 1: Product & Company Identification

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**Product Name:** NAPA/CRC® Diesel Fuel Conditioner w/Anti-Gel

**Product Number (s):** 79512

**Product Use:** fuel additive

### Manufacturer / Supplier Contact Information:

In United States:

CRC Industries, Inc.

885 Louis Drive

Warminster, PA 18974

[www.crcindustries.com](http://www.crcindustries.com)

1-215-674-4300(General)

(800) 521-3168 (Technical)

(800) 272-4620 (Customer Service)

In Canada:

CRC Canada Co.

2-1246 Lorimar Drive

Mississauga, Ontario L5S 1R2

[www.crc-canada.ca](http://www.crc-canada.ca)

1-905-670-2291

24-Hr Emergency – CHEMTREC: (800) 424-9300 or (703) 527-3887

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## Section 2: Hazards Identification

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### Emergency Overview

**DANGER:** Combustible. Harmful or Fatal if Swallowed.

Appearance & Odor: Dark amber liquid, petroleum odor

### Potential Health Effects:

#### ACUTE EFFECTS:

**EYE:** Contact with liquid or vapor may cause mild irritation.

**SKIN:** May cause skin irritation with prolonged or repeated contact. Practically non-toxic if absorbed following a single exposure.

**INHALATION:** Excessive exposure may cause irritations to the nose, throat, lungs and respiratory tract. Central nervous system effects may include headache, dizziness, loss of balance and coordination, unconsciousness, coma, respiratory failure and death.

**INGESTION:** Ingestion may cause gastrointestinal disturbance, including irritation, nausea, vomiting and diarrhea. The major health threat of ingestions occurs from the danger of aspiration of liquid drops into the lungs, particularly from vomiting. Aspiration may result in chemical pneumonia, severe lung damage and even death.

**CHRONIC EFFECTS:** Liquid may be absorbed through the skin in toxic amounts if large areas of skin are repeatedly exposed.

**TARGET ORGANS:** Central nervous system; Exposure to this material (or a component) has been found to cause kidney damage in male rats. The mechanism by which this toxicity occurs is specific to the male rat and the kidney effects are not expected to occur in humans.

**Medical Conditions Aggravated by Exposure:** Irritation from skin exposure may aggravate existing open wounds, skin disorders and dermatitis.



**Product Name: NAPA/CRC® Diesel Fuel Conditioner w/Anti-Gel**

**Product Number (s): 79512**

See Section 11 for toxicology and carcinogenicity information on product ingredients.

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### Section 3: Composition / Information on Ingredients

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| COMPONENT            | CAS NUMBER   | % by Wt. |
|----------------------|--------------|----------|
| Petroleum distillate | 68476-34-6   | 60 - 70  |
| Mineral spirits      | 8052-41-3    | 15 - 25  |
| Petroleum naphtha    | 64742-94-5   | 5 - 10   |
| Naphthalene          | 91-20-3      | 0.81     |
| Additive blend       | Trade secret | 5 - 10   |

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### Section 4: First Aid Measures

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- Eye Contact: Immediately flush with plenty of water for 15 minutes. Call a physician if irritation persists.
- Skin Contact: Remove contaminated clothing and wash affected area with soap and water. Call a physician if irritation persists. Wash contaminated clothing prior to re-use.
- Inhalation: Remove person to fresh air. Keep person calm. If not breathing, give artificial respiration. If breathing is difficult give oxygen. Call a physician.
- Ingestion: Do NOT induce vomiting. Do not give liquids. Obtain immediate medical attention. If spontaneous vomiting occurs, lean victim forward to reduce the risk of aspiration. Monitor for breathing difficulties. Mouth can be rinsed to dissipate the taste.

*Note to Physicians:* Treat symptomatically.

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### Section 5: Fire-Fighting Measures

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**Flammable Properties:** As defined by OSHA, this product is a Class II Combustible Liquid.

|                           |                    |                        |     |
|---------------------------|--------------------|------------------------|-----|
| Flash Point:              | 134°F / 57°C (TCC) | Upper Explosive Limit: | 7.5 |
| Autoignition Temperature: | 494°F / 257°C      | Lower Explosive Limit: | 0.6 |

**Fire and Explosion Data:**

- Suitable Extinguishing Media: Use extinguishers rated for Class B fires, such as dry chemical, Halon, fire fighting foam or CO<sup>2</sup>.
- Products of Combustion: Oxides of carbon
- Explosion Hazards: Containers, when exposed to heat from fire, may build pressure and rupture.
- Protection of Fire-Fighters: Firefighters should wear self-contained, NIOSH-approved breathing apparatus for protection against suffocation and possible toxic decomposition products. Proper eye and skin protection should be provided. Use water spray to keep fire-exposed containers cool and to knock down vapors which may result from product decomposition.

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### Section 6: Accidental Release Measures

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Personal Precautions: Use personal protection recommended in Section 8.

**Product Name: NAPA/CRC® Diesel Fuel Conditioner w/Anti-Gel**

**Product Number (s): 79512**

Environmental Precautions: Take precautions to prevent contamination of ground and surface waters. Do not flush into sewers or storm drains.

Methods for Containment & Clean-up: Remove all sources of ignition. Dike area to contain spill. Ventilate the area with fresh air. If in confined space or limited air circulation area, clean-up workers should wear appropriate respiratory protection. Recover or absorb spilled material using an absorbent designed for chemical spills. Place used absorbents into proper waste containers.

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**Section 7: Handling and Storage**

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Handling Procedures: Keep away from heat, sparks and open flame. Bond and ground containers during product transfer to reduce the possibility of static-initiated fire or explosion. Provide adequate ventilation during use. Do not breathe vapors. Wash hands after use. For product use instructions, please see the product label.

Storage Procedures: Store in a cool dry area out of direct sunlight. Containers should be tightly closed while in storage. Store in well ventilated area. Keep out of reach of children.

Aerosol Storage Level: NA

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**Section 8: Exposure Controls/Personal Protection**

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**Exposure Guidelines:**

| COMPONENT            | OSHA   |       | ACGIH   |      | OTHER |        | UNIT              |
|----------------------|--------|-------|---------|------|-------|--------|-------------------|
|                      | TWA    | STEL  | TWA     | STEL | TWA   | SOURCE |                   |
| Petroleum distillate | 5      | NE    | 100 (s) | NE   | NE    |        | mg/m <sup>3</sup> |
| Mineral spirits      | 500    | NE    | 100     | NE   | NE    |        | ppm               |
| Petroleum naphtha    | NE     | NE    | NE      | NE   | NE    |        |                   |
| Naphthalene          | 10     | 15(v) | 10 (s)  | 15   | NE    |        | ppm               |
| Additive blend       | 25 (v) | NE    | 25      | NE   | NE    |        | ppm               |

N.E. – Not Established      (c) – ceiling      (s) – skin      (v) – vacated

**Controls and Protection:**

Engineering Controls: Area should have ventilation to provide fresh air. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at the source, preventing dispersion into the general work area. Use mechanical means if necessary to maintain vapor levels below the exposure guidelines. If working in a confined space, follow applicable OSHA regulations.

Respiratory Protection: None required for normal work where adequate ventilation is provided. Use NIOSH-approved self-contained positive pressure respirators in low circulation areas and for emergencies.

Eye/face Protection: For normal conditions, wear safety glasses. Where there is reasonable probability of liquid contact, wear splash-proof goggles.

Skin Protection: Use protective gloves such as nitrile, neoprene or PVC. Also, use full protective clothing if there is prolonged or repeated contact of liquid with skin.

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**Section 9: Physical and Chemical Properties**

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**Product Name: NAPA/CRC® Diesel Fuel Conditioner w/Anti-Gel****Product Number (s): 79512**

Physical State: liquid  
 Color: dark amber  
 Odor: petroleum  
 Odor Threshold: ND  
 Specific Gravity: 0.839  
 Initial Boiling Point: 320°F / 160°C  
 Freezing Point: ND  
 Vapor Pressure: ND  
 Vapor Density: > 1 (air = 1)  
 Evaporation Rate: slow  
 Solubility: negligible in water  
 Coefficient of water/oil distribution: ND  
 pH: NA  
 Volatile Organic Compounds: wt %: 59 g/L: 495 lbs./gal: 4.1

**Section 10: Stability and Reactivity**

Stability: Stable

Conditions to Avoid: Temperature extremes, sources of ignition

Incompatible Materials: Strong oxidizers, Viton®, Fluorel®

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, non-combusted hydrocarbons (smoke)

Possibility of Hazardous Reactions: No

**Section 11: Toxicological Information**

Long-term toxicological studies have not been conducted for this product. The following information is available for components of this product.

**Acute Toxicity:**

| Component            | Oral LD50 (rat) | Dermal LD50 (rabbit) | Inhalation LC50 (rat)       |
|----------------------|-----------------|----------------------|-----------------------------|
| Petroleum Distillate | 9 mL/kg         | > 5 mL/kg            | No data                     |
| Mineral Spirits      | > 5 g/kg        | > 3 g/kg             | > 1400 ppm/8H               |
| Petroleum Naphtha    | No data         | > 2 mL/kg            | > 590 mg/m <sup>3</sup> /4H |
| Naphthalene          | 490 mg/kg       | > 20 g/kg            | No data                     |
| Additive blend       | No data         | No data              | No data                     |

**Chronic Toxicity:**

| Component            | OSHA Carcinogen | IARC Carcinogen | NTP Carcinogen                            | Irritant                    | Sensitizer |
|----------------------|-----------------|-----------------|---|-----------------------------|------------|
| Petroleum Distillate | No              | No              | No  | E & S (mild) / R (moderate) | No         |
| Mineral Spirits      | No              | No              | No  | E & S (mild)                | Unknown    |
| Petroleum Naphtha    | No              | No              | No  | E (mild) / S (moderate)     | Unknown    |
| Naphthalene          | No              | Group 2B        | Reasonably Anticipated to be a Carcinogen | E & R (moderate) / S (mild) | Unknown    |
| Additive blend       | No              | No              | No  | Unknown                     | Unknown    |

|         |          |                 |
|---------|----------|-----------------|
| E – Eye | S – Skin | R - Respiratory |
|---------|----------|-----------------|

**Product Name: NAPA/CRC® Diesel Fuel Conditioner w/Anti-Gel**

**Product Number (s): 79512**

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|                               |  |
|-------------------------------|--|
| <u>Reproductive Toxicity:</u> | No information available   |
| <u>Teratogenicity:</u>        | No information available   |
| <u>Mutagenicity:</u>          | No information available   |
| <u>Synergistic Effects:</u>   | No information available   |
| <u>Other:</u>                 | Petroleum Distillate: This material has been positive in a mutagenicity study. |

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**Section 12: Ecological Information**

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Ecological studies have not been conducted for this product. The following information is available for components of this product.

|                                 |   |
|---------------------------------|---|
| Ecotoxicity:                    | Naphthalene -- 48 Hr EC50 water flea: 2.16 mg/L   |
| Persistence / Degradability:    | No information available  |
| Bioaccumulation / Accumulation: | No information available  |
| Mobility in Environment:        | Spills may penetrate the soil causing groundwater contamination. This material may accumulate in sediments. |

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**Section 13: Disposal Considerations**

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**Waste Classification:** This product is a RCRA hazardous waste for the flammability characteristic and the toxicity characteristic (6.5 mg/L Benzene) with the following potential waste codes: D001, D018. (See 40 CFR Part 261.20 – 261.33)  
Empty containers may be recycled.

All disposal activities must comply with federal, state, provincial and local regulations. Local regulations may be more stringent than state, provincial or national requirements.

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**Section 14: Transport Information**

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|                     |   |
|---------------------|---|
| US DOT (ground):    | Not Regulated*  |
| ICAO/IATA (air):    | UN1993, Flammable liquids, N.O.S. (mineral spirits, petroleum distillate), 3, PGIII, Limited Quantity   |
| IMO/IMDG (water):   | UN1993, Flammable liquids, N.O.S. (mineral spirits, petroleum distillate), 3, PGIII, Limited Quantity   |
| Special Provisions: | *Per 49 CFR 173.150(f)(2), a material classed as a combustible liquid (in non-bulk packaging) is not subject to the shipping requirements of Subchapter C, including marking, placarding and shipping paper requirements. This applies to ground transportation only. |

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**Section 15: Regulatory Information**

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**U.S. Federal Regulations:**

Toxic Substances Control Act (TSCA):

All ingredients are either listed on the TSCA inventory or are exempt.

Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):

Reportable Quantities (RQ's) exist for the following ingredients: Naphthalene (100 lbs)

**Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.**

**Product Name: NAPA/CRC® Diesel Fuel Conditioner w/Anti-Gel**  
**Product Number (s): 79512**

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Superfund Amendments Reauthorization Act (SARA) Title III:

Section 302 Extremely Hazardous Substances (EHS): None

Section 311/312 Hazard Categories:

|                       |     |
|-----------------------|-----|
| Fire Hazard           | Yes |
| Reactive Hazard       | No  |
| Release of Pressure   | No  |
| Acute Health Hazard   | Yes |
| Chronic Health Hazard | Yes |

Section 313 Toxic Chemicals: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:  
Naphthalene (0.81%)

Clean Air Act:

Section 112 Hazardous Air Pollutants (HAPs): Naphthalene

**Canadian Regulations:**

Controlled Products Regulations:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

WHMIS Hazard Class: B3, D2A

Canadian DSL Inventory: All ingredients are either listed on the DSL Inventory or are exempt.

**European Union Regulations:**

RoHS Compliance: This product is compliant with Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003. This product does not contain any of the restricted substances as listed in Article 4(1) of the RoHS Directive.

**Additional Regulatory Information:** This diesel fuel additive complies with the federal ultra-low sulfur content requirements for use in all diesel motor vehicles and non-road engines.

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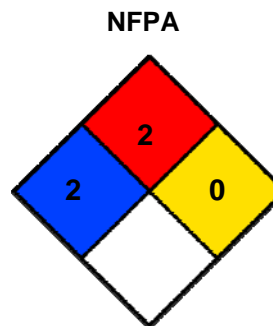
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## Section 16: Other Information

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| HMIS® (II)    |   |
|---------------|---|
| Health:       | 2 |
| Flammability: | 2 |
| Reactivity:   | 0 |
| PPE:          | B |



Ratings range from 0 (no hazard) to 4 (severe hazard)

Prepared By: Michelle Rudnick  
CRC #: 637Q  
Revision Date: 03/02/2017

**Product Name: NAPA/CRC® Diesel Fuel Conditioner w/Anti-Gel**

**Product Number (s): 79512**

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Changes since last revision:    Revision date

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC Industries' knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this MSDS consult your supervisor, a health & safety professional, or CRC Industries.

|  |   |
|--|---|
| ACGIH: American Conference of Governmental Industrial Hygienists | NA: Not Applicable  |
| CAS: Chemical Abstract Service                                   | ND: Not Determined  |
| CFR: Code of Federal Regulations                                 | NIOSH: National Institute of Occupational Safety & Health |
| DOT: Department of Transportation                                | NFPA: National Fire Protection Association                |
| DSL: Domestic Substance List                                     | NTP: National Toxicology Program                          |
| g/L: grams per Liter   | OSHA: Occupational Safety and Health Administration       |
| HMIS: Hazardous Materials Identification System                  | PMCC: Pensky-Martens Closed Cup                           |
| IARC: International Agency for Research on Cancer                | PPE: Personal Protection Equipment                        |
| IATA: International Air Transport Association                    | ppm: Parts per Million                                    |
| ICAO: International Civil Aviation Organization                  | RoHS: Restriction of Hazardous Substances                 |
| IMDG: International Maritime Dangerous Goods                     | STEL: Short Term Exposure Limit                           |
| IMO: International Maritime Organization                         | TCC: Tag Closed Cup                                       |
| lbs./gal: pounds per gallon                                      | TWA: Time Weighted Average                                |
| LC: Lethal Concentration   | WHMIS: Workplace Hazardous Materials Information System   |
| LD: Lethal Dose  |   |



## SAFETY DATA SHEET

### Section 1 – Product & Company Identification

Product Name:  
RIDGID Dark Thread Cutting Oil (United States)

Product Catalog No.:  
11471, 11491, 41590, 41600, 41610, 70830

Recommended Use:  
Thread Cutting

Restrictions on Use:  
Industrial use only

Company Information:

| <u>North America</u>   | <u>Australia</u>   |
|--|--|
| Ridge Tool Company<br>400 Clark Street<br>Elyria, Ohio 44035-6001<br>1-800-519-3456<br>(8:00 am – 5:00 pm EST, M-F)<br>Emergency Telephone<br>call 9-1-1 or local emergency number<br>www.RIDGID.com | Ridge Tool Australia<br>127 Metrolink Circuit<br>Campbellfield, VIC 3061<br>1-800-743-443<br>(8:30 am – 5:00 pm AEST, M-F)<br>Emergency Telephone<br>call 000 or local emergency number<br>www.RIDGID.com.au |

Issue Date: May 2, 2018

Revision: I

• Français – 11  
• Castellano – pág. 21



**Product Name: RIDGID Dark Thread Cutting Oil (United States)**

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## Section 2 – Hazards Identification

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### Hazard Classification

This product is classified as not hazardous per US OSHA 29CFR 1910.1200 (HazCom 2012)

### Label Elements

**Hazard Symbol:** No symbol

**Signal Word:** No signal word.

**Hazard Statement:** Not applicable

**Precautionary Statements:** Not applicable

**Other hazards which do not result in GHS classification:** None.

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## Section 3 – Composition / Information On Ingredients

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**General information:** This product does not contain silicone or chlorinated additives.

### Hazardous Component(s):

| Chemical name | CAS-No.      | Concentration |
|---------------|--------------|---------------|
| Mineral oil   | Confidential | 20 - <50%     |
| Paraffin oils | Confidential | 20 - <50%     |

Specific chemical identities and/or exact percentages have been withheld as trade secrets.





**Product Name: RIDGID Dark Thread Cutting Oil (United States)**

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### **Section 4 – First Aid Measures**

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**Ingestion:** Rinse mouth thoroughly. Call a POISON CENTER/doctor if you feel unwell. Do NOT induce vomiting.

**Inhalation:** Move to fresh air. Call a POISON CENTER/doctor if you feel unwell.

**Skin Contact:** Remove contaminated clothing and shoes. Wash contact areas with soap and water. If skin irritation occurs: Get medical advice/attention.

**Eye contact:** Flush thoroughly with water. If irritation occurs, get medical assistance. Continue to rinse for at least 15 minutes.

#### **Most important symptoms/effects, acute and delayed**

**Symptoms:** No data available.

#### **Indication of immediate medical attention and special treatment needed**

**Treatment:** Get medical attention if symptoms occur.

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### **Section 5 – Fire Fighting Measures**

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**General Fire Hazards:** No unusual fire or explosion hazards noted.

#### **Suitable (and unsuitable) extinguishing media**

**Suitable extinguishing media:** Water spray, fog, CO<sub>2</sub>, dry chemical, or regular foam. Use fire-extinguishing media appropriate for surrounding materials.

**Unsuitable extinguishing media:** Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards arising from the chemical:** Heat may cause the containers to explode. During fire, gases hazardous to health may be formed.

#### **Special protective equipment and precautions for firefighters**

**Special fire fighting procedures:** No data available.

**Special protective equipment for fire-fighters:** Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.



**Product Name: RIDGID Dark Thread Cutting Oil (United States)**

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### **Section 6 – Accidental Release Measures**

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|   |  |
|---|--|
| <b>Personal precautions, protective equipment and emergency procedures:</b> | See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away. Ensure adequate ventilation. |
| <b>Methods and material for containment and cleaning up:</b>                | Absorb with sand or other inert absorbent. Stop the flow of material, if this is without risk.   |
| <b>Environmental Precautions:</b>   | Avoid release to the environment. Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.   |

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### **Section 7 – Handling And Storage**

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|  |  |
|--|--|
| <b>Precautions for safe handling:</b>                                | End-users should follow industry best practices for handling and using this product.<br><br>Guidance may be found using the current version of ASTM Standard E1497-05: Standard Practice for Selection and Safe Use of Water-Miscible and Straight Oil Metal Removal Fluids Observe good industrial hygiene practices. Wear appropriate personal protective equipment. Do not expose to intense heat as product may expand and pressurize container. |
| <b>Conditions for safe storage, including any incompatibilities:</b> | Store in original tightly closed container. Avoid contact with oxidizing agents. Store away from incompatible materials. Shelf Life: 720 Days  |



**Product Name: RIDGID Dark Thread Cutting Oil (United States)**

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**Section 8 – Exposure Controls / Personal Protection**

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**Exposure Limits**

| Chemical name                       | Type | Exposure Limit Values | Source  |
|-------------------------------------|------|-----------------------|---|
| Mineral oil - Mist.                 | PEL  | 5 mg/m <sup>3</sup>   | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (01 2017) |
| Mineral oil - Mist.                 | TWA  | 5 mg/m <sup>3</sup>   | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)                              |
| Paraffin oils - Inhalable fraction. | TWA  | 5 mg/m <sup>3</sup>   | US. ACGIH Threshold Limit Values (03 2014)                                  |
| Paraffin oils - Mist.               | PEL  | 5 mg/m <sup>3</sup>   | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| Paraffin oils - Mist.               | TWA  | 5 mg/m <sup>3</sup>   | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)                              |

- Protective Measures:** Use personal protective equipment as required.
- Respiratory Protection:** In case of inadequate ventilation use suitable respirator. Seek advice from supervisor on the company's respiratory protection standards.
- Eye Protection:** Wear safety glasses with side shields (or goggles).
- Skin and Body Protection:** Wear protective clothing appropriate for the risk of exposure. Be aware of other hazards such as rotating parts. Contact health and safety professional or manufacturer for specific information.
- Hygiene measures:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

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**Section 9 – Physical And Chemical Properties**

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**Appearance**

- Physical state:** Liquid
- Form:** No data available.
- Color:** Black
- Odor:** Mild petroleum/solvent
- Odor threshold:** No data available.
- pH:** No data available.
- Melting point/freezing point:** No data available.



**Product Name: RIDGID Dark Thread Cutting Oil (United States)**

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|  |   |
|--|---|
| <b>Initial boiling point and boiling range:</b>              | No data available.                        |
| <b>Flash Point:</b>  | 196.11 °C (385.00 °F)                     |
| <b>Evaporation rate:</b>                                     | No data available.                        |
| <b>Flammability (solid, gas):</b>                            | No data available.                        |
| <b>Upper/lower limit on flammability or explosive limits</b> |   |
| <b>Flammability limit - upper (%):</b>                       | No data available.                        |
| <b>Flammability limit - lower (%):</b>                       | No data available.                        |
| <b>Explosive limit - upper (%):</b>                          | No data available.                        |
| <b>Explosive limit - lower (%):</b>                          | No data available.                        |
| <b>Vapor pressure:</b>                                       | No data available.                        |
| <b>Vapor density:</b>  | No data available.                        |
| <b>Relative density:</b>                                     | 0.878                                     |
| <b>Solubility(ies)</b>                                       |   |
| <b>Solubility in water:</b>                                  | Insoluble                                 |
| <b>Solubility (other):</b>                                   | No data available.                        |
| <b>Partition coefficient (n-octanol/water):</b>              | No data available.                        |
| <b>Auto-ignition temperature:</b>                            | No data available.                        |
| <b>Decomposition temperature:</b>                            | No data available.                        |
| <b>Viscosity:</b>  | 42.5 mm <sup>2</sup> /s (40 °C, Measured) |
| <b>Other information</b>                                     |   |
| <b>VOC:</b>  | 1.99 g/l (ASTM E 1868-10)                 |

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**Section 10 – Stability And Reactivity**

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|  |   |
|--|---|
| <b>Reactivity:</b>                         | Not reactive during normal use.   |
| <b>Chemical Stability:</b>                 | Material is stable under normal conditions.   |
| <b>Possibility of hazardous reactions:</b> | None under normal conditions.   |
| <b>Conditions to avoid:</b>                | Avoid heat or contamination.  |
| <b>Incompatible Materials:</b>             | No data available.  |
| <b>Hazardous Decomposition Products:</b>   | Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors. |

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**Section 11 – Toxicological Information**

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**Information on likely routes of exposure**

**Ingestion:** May be ingested by accident. Ingestion may cause irritation and malaise.



**Product Name: RIDGID Dark Thread Cutting Oil (United States)**

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- Inhalation:** Inhalation is the primary route of exposure. In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.
- Skin Contact:** Prolonged skin contact may cause redness and irritation.
- Eye contact:** Eye contact is possible and should be avoided.

**Symptoms related to the physical, chemical and toxicological characteristics**

- Ingestion:** No data available.
- Inhalation:** No data available.
- Skin Contact:** No data available.
- Eye contact:** No data available.

**Information on toxicological effects**

**Acute toxicity (list all possible routes of exposure)**

- Oral**
  - Product:** Not classified for acute toxicity based on available data.
- Dermal**
  - Product:** Not classified for acute toxicity based on available data.
- Inhalation**
  - Product:** Not classified for acute toxicity based on available data.
- Repeated dose toxicity**
  - Product:** No data available.

- Skin Corrosion/Irritation**
  - Product:** No data available.

- Serious Eye Damage/Eye Irritation**
  - Product:** No data available.

- Respiratory or Skin Sensitization**
  - Product:** No data available.

- Carcinogenicity**
  - Product:** No data available.

**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans**

No carcinogenic components identified

**US. National Toxicology Program (NTP) Report on Carcinogens:**

No carcinogenic components identified



**Product Name: RIDGID Dark Thread Cutting Oil (United States)**

---

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

No carcinogenic components identified

**Germ Cell Mutagenicity**

**In vitro**

**Product:** No data available.

**In vivo**

**Product:** No data available.

**Reproductive toxicity**

**Product:** No data available.

**Specific Target Organ Toxicity - Single Exposure**

**Product:** No data available.

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:** No data available.

**Aspiration Hazard**

**Product:** No data available.

**Other effects:** No data available.

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**Section 12 – Ecological Information**

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**General information:** This product has not been evaluated for ecological toxicity or other environmental effects.

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**Section 13 – Disposal Consideration**

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**Disposal instructions:** Discharge, treatment, or disposal may be subject to national, state, or local laws. Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. It is the responsibility of the product user or owner to determine at the time of disposal, which waste regulations must be applied.

**Contaminated Packaging:** Empty containers should be taken to an approved waste handling site for recycling or disposal.



**Product Name: RIDGID Dark Thread Cutting Oil (United States)**

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**Section 14 – Transportation Information**

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**DOT**

Not regulated.

**IMDG**

Not regulated.

**IATA**

Not regulated.

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**Section 15 – Regulatory Information**

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**US Federal Regulations**

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

None present or none present in regulated quantities.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories**

This product is classified as not hazardous per US OSHA 29CFR 1910.1200 (HazCom 2012)

**SARA 313 (TRI Reporting)**

None present or none present in regulated quantities.

**US State Regulations**

**US. California Proposition 65**

No ingredient regulated by CA Prop 65 present.



**Product Name: RIDGID Dark Thread Cutting Oil (United States)**

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**Section 16 – Other Information**

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Prepared by: . . . . . Ridge Tool Company (Operating Standard 6-103)

Issue Date: . . . . . May 2, 2018

Last Revision Date: . . . . . March 27, 2017

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## SAFETY DATA SHEET

### Section 1 – Product & Company Identification

Product Name:  
RIDGID Dark Thread Cutting Oil (United States)

Product Catalog No.:  
11471, 11491, 41590, 41600, 41610, 70830

Recommended Use:  
Thread Cutting

Restrictions on Use:  
Industrial use only

Company Information:

| <u>North America</u>   | <u>Australia</u>   |
|--|--|
| Ridge Tool Company<br>400 Clark Street<br>Elyria, Ohio 44035-6001<br>1-800-519-3456<br>(8:00 am – 5:00 pm EST, M-F)<br>Emergency Telephone<br>call 9-1-1 or local emergency number<br>www.RIDGID.com | Ridge Tool Australia<br>127 Metrolink Circuit<br>Campbellfield, VIC 3061<br>1-800-743-443<br>(8:30 am – 5:00 pm AEST, M-F)<br>Emergency Telephone<br>call 000 or local emergency number<br>www.RIDGID.com.au |

Issue Date: May 2, 2018

Revision: I

• Français – 11  
• Castellano – pág. 21



**Product Name: RIDGID Dark Thread Cutting Oil (United States)**

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## Section 2 – Hazards Identification

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### Hazard Classification

This product is classified as not hazardous per US OSHA 29CFR 1910.1200 (HazCom 2012)

### Label Elements

**Hazard Symbol:** No symbol

**Signal Word:** No signal word.

**Hazard Statement:** Not applicable

**Precautionary Statements:** Not applicable

**Other hazards which do not result in GHS classification:** None.

---

## Section 3 – Composition / Information On Ingredients

---

**General information:** This product does not contain silicone or chlorinated additives.

### Hazardous Component(s):

| Chemical name | CAS-No.      | Concentration |
|---------------|--------------|---------------|
| Mineral oil   | Confidential | 20 - <50%     |
| Paraffin oils | Confidential | 20 - <50%     |

Specific chemical identities and/or exact percentages have been withheld as trade secrets.



**Product Name: RIDGID Dark Thread Cutting Oil (United States)**

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### **Section 4 – First Aid Measures**

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**Ingestion:** Rinse mouth thoroughly. Call a POISON CENTER/doctor if you feel unwell. Do NOT induce vomiting.

**Inhalation:** Move to fresh air. Call a POISON CENTER/doctor if you feel unwell.

**Skin Contact:** Remove contaminated clothing and shoes. Wash contact areas with soap and water. If skin irritation occurs: Get medical advice/attention.

**Eye contact:** Flush thoroughly with water. If irritation occurs, get medical assistance. Continue to rinse for at least 15 minutes.

#### **Most important symptoms/effects, acute and delayed**

**Symptoms:** No data available.

#### **Indication of immediate medical attention and special treatment needed**

**Treatment:** Get medical attention if symptoms occur.

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### **Section 5 – Fire Fighting Measures**

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**General Fire Hazards:** No unusual fire or explosion hazards noted.

#### **Suitable (and unsuitable) extinguishing media**

**Suitable extinguishing media:** Water spray, fog, CO<sub>2</sub>, dry chemical, or regular foam. Use fire-extinguishing media appropriate for surrounding materials.

**Unsuitable extinguishing media:** Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards arising from the chemical:** Heat may cause the containers to explode. During fire, gases hazardous to health may be formed.

#### **Special protective equipment and precautions for firefighters**

**Special fire fighting procedures:** No data available.

**Special protective equipment for fire-fighters:** Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.



**Product Name: RIDGID Dark Thread Cutting Oil (United States)**

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### **Section 6 – Accidental Release Measures**

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|   |  |
|---|--|
| <b>Personal precautions, protective equipment and emergency procedures:</b> | See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away. Ensure adequate ventilation. |
| <b>Methods and material for containment and cleaning up:</b>                | Absorb with sand or other inert absorbent. Stop the flow of material, if this is without risk.   |
| <b>Environmental Precautions:</b>   | Avoid release to the environment. Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.   |

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### **Section 7 – Handling And Storage**

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|  |  |
|--|--|
| <b>Precautions for safe handling:</b>                                | End-users should follow industry best practices for handling and using this product.<br><br>Guidance may be found using the current version of ASTM Standard E1497-05: Standard Practice for Selection and Safe Use of Water-Miscible and Straight Oil Metal Removal Fluids Observe good industrial hygiene practices. Wear appropriate personal protective equipment. Do not expose to intense heat as product may expand and pressurize container. |
| <b>Conditions for safe storage, including any incompatibilities:</b> | Store in original tightly closed container. Avoid contact with oxidizing agents. Store away from incompatible materials. Shelf Life: 720 Days  |



**Product Name: RIDGID Dark Thread Cutting Oil (United States)**

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**Section 8 – Exposure Controls / Personal Protection**

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**Exposure Limits**

| Chemical name                       | Type | Exposure Limit Values | Source  |
|-------------------------------------|------|-----------------------|---|
| Mineral oil - Mist.                 | PEL  | 5 mg/m <sup>3</sup>   | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (01 2017) |
| Mineral oil - Mist.                 | TWA  | 5 mg/m <sup>3</sup>   | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)                              |
| Paraffin oils - Inhalable fraction. | TWA  | 5 mg/m <sup>3</sup>   | US. ACGIH Threshold Limit Values (03 2014)                                  |
| Paraffin oils - Mist.               | PEL  | 5 mg/m <sup>3</sup>   | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| Paraffin oils - Mist.               | TWA  | 5 mg/m <sup>3</sup>   | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)                              |

- Protective Measures:** Use personal protective equipment as required.
- Respiratory Protection:** In case of inadequate ventilation use suitable respirator. Seek advice from supervisor on the company's respiratory protection standards.
- Eye Protection:** Wear safety glasses with side shields (or goggles).
- Skin and Body Protection:** Wear protective clothing appropriate for the risk of exposure. Be aware of other hazards such as rotating parts. Contact health and safety professional or manufacturer for specific information.
- Hygiene measures:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

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**Section 9 – Physical And Chemical Properties**

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**Appearance**

- Physical state:** Liquid
- Form:** No data available.
- Color:** Black
- Odor:** Mild petroleum/solvent
- Odor threshold:** No data available.
- pH:** No data available.
- Melting point/freezing point:** No data available.



**Product Name: RIDGID Dark Thread Cutting Oil (United States)**

---

|  |   |
|--|---|
| <b>Initial boiling point and boiling range:</b>              | No data available.                        |
| <b>Flash Point:</b>  | 196.11 °C (385.00 °F)                     |
| <b>Evaporation rate:</b>                                     | No data available.                        |
| <b>Flammability (solid, gas):</b>                            | No data available.                        |
| <b>Upper/lower limit on flammability or explosive limits</b> |   |
| <b>Flammability limit - upper (%):</b>                       | No data available.                        |
| <b>Flammability limit - lower (%):</b>                       | No data available.                        |
| <b>Explosive limit - upper (%):</b>                          | No data available.                        |
| <b>Explosive limit - lower (%):</b>                          | No data available.                        |
| <b>Vapor pressure:</b>                                       | No data available.                        |
| <b>Vapor density:</b>  | No data available.                        |
| <b>Relative density:</b>                                     | 0.878                                     |
| <b>Solubility(ies)</b>                                       |   |
| <b>Solubility in water:</b>                                  | Insoluble                                 |
| <b>Solubility (other):</b>                                   | No data available.                        |
| <b>Partition coefficient (n-octanol/water):</b>              | No data available.                        |
| <b>Auto-ignition temperature:</b>                            | No data available.                        |
| <b>Decomposition temperature:</b>                            | No data available.                        |
| <b>Viscosity:</b>  | 42.5 mm <sup>2</sup> /s (40 °C, Measured) |
| <b>Other information</b>                                     |   |
| <b>VOC:</b>  | 1.99 g/l (ASTM E 1868-10)                 |

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**Section 10 – Stability And Reactivity**

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|  |   |
|--|---|
| <b>Reactivity:</b>                         | Not reactive during normal use.   |
| <b>Chemical Stability:</b>                 | Material is stable under normal conditions.   |
| <b>Possibility of hazardous reactions:</b> | None under normal conditions.   |
| <b>Conditions to avoid:</b>                | Avoid heat or contamination.  |
| <b>Incompatible Materials:</b>             | No data available.  |
| <b>Hazardous Decomposition Products:</b>   | Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors. |

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**Section 11 – Toxicological Information**

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**Information on likely routes of exposure**

**Ingestion:** May be ingested by accident. Ingestion may cause irritation and malaise.



**Product Name: RIDGID Dark Thread Cutting Oil (United States)**

---

- Inhalation:** Inhalation is the primary route of exposure. In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.
- Skin Contact:** Prolonged skin contact may cause redness and irritation.
- Eye contact:** Eye contact is possible and should be avoided.

**Symptoms related to the physical, chemical and toxicological characteristics**

- Ingestion:** No data available.
- Inhalation:** No data available.
- Skin Contact:** No data available.
- Eye contact:** No data available.

**Information on toxicological effects**

**Acute toxicity (list all possible routes of exposure)**

- Oral**
  - Product:** Not classified for acute toxicity based on available data.
- Dermal**
  - Product:** Not classified for acute toxicity based on available data.
- Inhalation**
  - Product:** Not classified for acute toxicity based on available data.

- Repeated dose toxicity**
  - Product:** No data available.

- Skin Corrosion/Irritation**
  - Product:** No data available.

- Serious Eye Damage/Eye Irritation**
  - Product:** No data available.

- Respiratory or Skin Sensitization**
  - Product:** No data available.

- Carcinogenicity**
  - Product:** No data available.

**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans**

No carcinogenic components identified

**US. National Toxicology Program (NTP) Report on Carcinogens:**

No carcinogenic components identified



**Product Name: RIDGID Dark Thread Cutting Oil (United States)**

---

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

No carcinogenic components identified

**Germ Cell Mutagenicity**

**In vitro**

**Product:** No data available.

**In vivo**

**Product:** No data available.

**Reproductive toxicity**

**Product:** No data available.

**Specific Target Organ Toxicity - Single Exposure**

**Product:** No data available.

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:** No data available.

**Aspiration Hazard**

**Product:** No data available.

**Other effects:** No data available.

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**Section 12 – Ecological Information**

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**General information:** This product has not been evaluated for ecological toxicity or other environmental effects.

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**Section 13 – Disposal Consideration**

---

**Disposal instructions:** Discharge, treatment, or disposal may be subject to national, state, or local laws. Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. It is the responsibility of the product user or owner to determine at the time of disposal, which waste regulations must be applied.

**Contaminated Packaging:** Empty containers should be taken to an approved waste handling site for recycling or disposal.





**Product Name: RIDGID Dark Thread Cutting Oil (United States)**

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**Section 14 – Transportation Information**

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---

**DOT**

Not regulated.

**IMDG**

Not regulated.

**IATA**

Not regulated.

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**Section 15 – Regulatory Information**

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**US Federal Regulations**

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

None present or none present in regulated quantities.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories**

This product is classified as not hazardous per US OSHA 29CFR 1910.1200 (HazCom 2012)

**SARA 313 (TRI Reporting)**

None present or none present in regulated quantities.

**US State Regulations**

**US. California Proposition 65**

No ingredient regulated by CA Prop 65 present.



**Product Name: RIDGID Dark Thread Cutting Oil (United States)**

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**Section 16 – Other Information**

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Prepared by: . . . . . Ridge Tool Company (Operating Standard 6-103)

Issue Date: . . . . . May 2, 2018

Last Revision Date: . . . . . March 27, 2017

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## FICHE SANTÉ/SÉCURITÉ

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### 1 – Identification du produit et du fournisseur

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Produit:  
RIDGID Dark Thread Cutting Oil (Etats-Unis)

Réf. catalogue:  
11471, 11491, 41590, 41600, 41610, 70830

Emploi recommandé:  
Filetage mécanique

Restrictions d'utilisation:  
Usage industriel seulement

Fournisseur:

|  |
|--|
| <p><u>North America</u><br/>Ridge Tool Company<br/>400 Clark Street<br/>Elyria, Ohio 44035-6001<br/>1-800-519-3456<br/>(Etats-Unis) (du lundi au vendredi de 8h<br/>à 17h EST)<br/>Téléphone d'urgence:<br/>composer le 9-1-1 ou appeler les<br/>services d'urgences appropriés<br/><a href="http://www.RIDGID.com">www.RIDGID.com</a></p> |
|--|

Date de publication: le 2 mai 2018

Révision I

**Produit: RIDGID Dark Thread Cutting Oil (Etats-Unis)**

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**2 – Identification des risques**

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**Classe de Danger**

Ce produit est classé comme non dangereux selon la norme américaine OSHA 29CFR 1910.1200 (HazCom 2012)

**Éléments d'Étiquetage**

|                                 |                       |
|---------------------------------|-----------------------|
| <b>Symbole de Danger:</b>       | Aucun symbole         |
| <b>Mention d'Avertissement:</b> | Aucun mot indicateur. |
| <b>Mention de Danger:</b>       | Non applicable        |
| <b>Conseils de Prudence</b>     | Non applicable        |

**Autres dangers ne donnant pas lieu à classement selon le SGH:** Aucun(e).

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**3 – Composition du produit et renseignements sur ses ingrédients**

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**Informations générales:** Ce produit ne contient pas de silicone ou d'additifs chlorés.

**Composant(s) dangereux:**

| Désignation chimique | N° CAS       | Concentration |
|----------------------|--------------|---------------|
| Mineral oil          | Confidentiel | 20 - <50%     |
| Paraffin oils        | Confidentiel | 20 - <50%     |

Les identités chimiques spécifiques et/ou les pourcentages exacts ont été refusées comme les secrets commerciaux.

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**4 – Premiers soins**

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|                              |  |
|------------------------------|--|
| <b>Ingestion:</b>            | Rincer soigneusement la bouche. Appeler un CENTRE ANTIPOISON/un médecin en cas de malaise. NE PAS faire vomir.   |
| <b>Inhalation:</b>           | Transporter à l'air frais. Appeler un CENTRE ANTIPOISON/un médecin en cas de malaise.  |
| <b>Contact avec la Peau:</b> | Enlever les vêtements et les chaussures contaminés. Laver les zones de contact à l'eau et au savon. En cas d'irritation cutanée: consulter un médecin. |

**Produit: RIDGID Dark Thread Cutting Oil (Etats-Unis)**

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**Contact oculaire:** Rincer avec soin à l'eau. En cas d'irritation, consulter un médecin. Continuer à rincer pendant au moins 15 minutes.

**Symptômes/effets les plus importants, aigus et différés**

**Symptômes:** Aucune information disponible.

**Indication d'un besoin médical immédiat et traitement spécial requis**

**Traitement:** Consulter un médecin en cas de symptômes.

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**5 – Lutte contre les incendies**

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**Dangers d'Incendie Généraux:** Aucun risque exceptionnel d'incendie et d'explosion.

**Moyens d'extinction appropriés (et inappropriés)**

**Moyens d'extinction appropriés:** Eau pulvérisée, brouillard, CO<sub>2</sub>, agent chimique sec ou mousse standard. Choisir le moyen d'extinction de l'incendie en tenant compte d'autres produits chimiques éventuels.

**Moyens d'extinction inappropriés:** Ne pas lutter contre l'incendie au jet d'eau pour ne pas propager les flammes.

**Dangers spécifiques dus au produit chimique:** La chaleur peut provoquer l'explosion des récipients. En cas d'incendie, des gaz dangereux pour la santé peuvent se former.

**Équipement de protection spécial et précautions pour les pompiers**

**Procédures spéciales de lutte contre l'incendie:** Aucune information disponible.

**Équipement de protection spécial pour le personnel préposé à la lutte contre le feu:** Les pompiers doivent porter un équipement de protection standard, notamment vêtement ignifuge, casque à masque facial, gants, bottes en caoutchouc et, dans les espaces clos, un appareil respiratoire autonome.

**Produit: RIDGID Dark Thread Cutting Oil (Etats-Unis)**

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**6 – Lutte contre les déversements accidentels**

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|   |   |
|---|---|
| <b>Précautions individuelles, équipement de protection et procédures d'urgence:</b> | Voir l'équipement de protection individuelle à la Section 8. Ne pas toucher les récipients endommagés ou le produit déversé à moins de porter les vêtements de protection appropriés. Maintenir à distance le personnel non autorisé. Assurer une ventilation adéquate. |
| <b>Méthodes et matériel de confinement et de nettoyage:</b>                         | Absorber le produit avec du sable ou un autre absorbant inerte. Arrêter le débit de matière, si ceci est sans risque.   |
| <b>Précautions pour la Protection de l'Environnement:</b>                           | Éviter le rejet dans l'environnement. Ne pas contaminer les sources d'eau ou les égouts. Endiguer la fuite ou le déversement si cela peut être fait sans danger.  |

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**7 – Manipulation et stockage**

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|  |  |
|--|--|
| <b>Précautions à prendre pour une manipulation sans danger:</b>                | <p>Les utilisateurs finaux devraient respecter les meilleures pratiques de l'industrie lors de la manipulation et l'utilisation de ce produit.</p> <p>Les conseils peuvent être trouvés en utilisant la version actuelle de ASTM Standard E1497-05: Standard Practice for Selection and Safe Use of Water-Miscible and Straight Oil Metal Removal Fluids</p> <p>Se conformer aux bonnes pratiques d'hygiène industrielle. Porter un équipement de protection personnelle approprié. N'exposez pas à la chaleur intense comme le produit peut développer et pressuriser le récipient.</p> |
| <b>Conditions d'un stockage sûr, y compris d'éventuelles incompatibilités:</b> | Conserver dans le récipient d'origine hermétiquement fermé. Éviter tout contact avec des agents comburants. Conserver à l'écart des matières incompatibles. Durée de conservation: 720 jours   |

**Produit: RIDGID Dark Thread Cutting Oil (Etats-Unis)**

**8 – Risques d'exposition et protection individuelle**

**Limites d'Exposition**

| Désignation chimique                | Type | Valeurs Limites d'Exposition | Source  |
|-------------------------------------|------|------------------------------|---|
| Mineral oil - Brouillard            | PEL  | 5 mg/m <sup>3</sup>          | Les Etats-Unis. La Table d'OSHA z-1 les Limites pour les Polluants Aériens (29 CFR 1910.1000) (01 2017) |
| Mineral oil - Brouillard            | TWA  | 5 mg/m <sup>3</sup>          | Les Etats-Unis. La Table d'OSHA z-1 les Limites pour les Polluants Aériens (29 CFR 1910.1000) (1989)    |
| Paraffin oils - Fraction inhalable. | TWA  | 5 mg/m <sup>3</sup>          | Les Etats-Unis. Valeurs de Limite de Seuil d'ACGIH (03 2014)  |
| Paraffin oils - Brouillard          | PEL  | 5 mg/m <sup>3</sup>          | Les Etats-Unis. La Table d'OSHA z-1 les Limites pour les Polluants Aériens (29 CFR 1910.1000) (02 2006) |
| Paraffin oils - Brouillard          | TWA  | 5 mg/m <sup>3</sup>          | Les Etats-Unis. La Table d'OSHA z-1 les Limites pour les Polluants Aériens (29 CFR 1910.1000) (1989)    |

**Mesures de protection:**

Utiliser l'équipement de protection individuel requis.

**Protection respiratoire:**

En cas de ventilation insuffisante, porter un appareil respiratoire approprié. Demander l'avis du superviseur sur les normes de protection respiratoire de la société.

**Protection des Yeux:**

Porter des lunettes de sécurité à écrans latéraux ou des lunettes étanches.

**Protection de la peau et du corps:**

Porter des vêtements de protection appropriés au risque d'exposition. Soyez conscient des autres dangers tels que les pièces en rotation. Contacter un professionnel de la santé et de la sécurité ou un fabricant pour obtenir des informations spécifiques.

**Mesures d'hygiène:**

Toujours adopter de bonnes pratiques d'hygiène personnelle, telles que lavage après manipulation de la substance et avant de manger, de boire ou de fumer. Laver régulièrement la tenue de travail pour éliminer les contaminants. Mettre au rebut les chaussures qui ne peuvent pas être lavées.

**Produit: RIDGID Dark Thread Cutting Oil (Etats-Unis)****9 – Caractéristiques physiques et chimiques****Aspect****État:**

Liquide

**Forme:**

Aucune information disponible.

**Couleur:**

Noir

**Odeur:**

Légère, Pétrole/solvant

**Seuil de perception de l'odeur:**

Aucune information disponible.

**pH:**

Aucune information disponible.

**Point de fusion/point de congélation:**

Aucune information disponible.

**Température d'ébullition initiale et intervalle d'ébullition:**

Aucune information disponible.

**Point d'éclair:**

196.11 °C (385.00 °F)

**Taux d'évaporation:**

Aucune information disponible.

**Inflammabilité (solide, gaz):**

Aucune information disponible.

**Limites supérieures/inférieures d'inflammabilité ou d'explosivité****Limites d'inflammabilité - supérieure (%):**

Aucune information disponible.

**Limites d'inflammabilité - inférieure (%):**

Aucune information disponible.

**Limites d'explosivité - supérieure (%) :**

Aucune information disponible.

**Limites d'explosivité - inférieure (%):**

Aucune information disponible.

**Pression de vapeur:**

Aucune information disponible.

**Densité de vapeur:**

Aucune information disponible.

**Densité relative:**

0.878

**Solubilités****Solubilité dans l'eau:**

Insoluble

**Solubilité (autre):**

Aucune information disponible.

**Coefficient de partition (n-octanol/eau):**

Aucune information disponible.

**Température d'auto-inflammation:**

Aucune information disponible.

**Température de décomposition:**

Aucune information disponible.

**Viscosité:**42.5 mm<sup>2</sup>/s (40 °C, Mesurée)**AUTRES INFORMATIONS****VOC:**

1.99 g/l (ASTM E 1868-10)



**Produit: RIDGID Dark Thread Cutting Oil (Etats-Unis)**

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**10 – Stabilité et réactivité**

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|  |   |
|--|---|
| <b>Réactivité:</b>                           | Non réactif pendant l'utilisation normale.  |
| <b>Stabilité Chimique:</b>                   | Ce produit est stable dans des conditions normales.   |
| <b>Possibilité de Réactions Dangereuses:</b> | Aucun(e)s dans les conditions normales.   |
| <b>Conditions à Éviter:</b>                  | Éviter tout chauffage ou contamination.   |
| <b>Matières Incompatibles:</b>               | Aucune information disponible.  |
| <b>Produits de Décomposition Dangereux:</b>  | La décomposition thermique ou la combustion peut libérer des oxydes de carbone et d'autres gaz ou vapeurs toxiques. |

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**11 – Données toxicologiques**

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**Informations sur les voies d'exposition probables**

|                              |   |
|------------------------------|---|
| <b>Ingestion:</b>            | Peut être ingéré par accident. L'ingestion peut provoquer irritation et malaises.   |
| <b>Inhalation:</b>           | L'inhalation est la principale voie d'exposition. À concentration élevée, les vapeurs, émanations ou brouillards peuvent être irritants pour le nez, la gorge et les muqueuses. |
| <b>Contact avec la Peau:</b> | Le contact prolongé avec la peau peut entraîner des rougeurs et de l'irritation.  |
| <b>Contact oculaire:</b>     | Le contact oculaire est possible ; il doit être évité.  |

**Symptômes liés aux caractéristiques physiques, chimiques et toxicologiques**

|                              |                                |
|------------------------------|--------------------------------|
| <b>Ingestion:</b>            | Aucune information disponible. |
| <b>Inhalation:</b>           | Aucune information disponible. |
| <b>Contact avec la Peau:</b> | Aucune information disponible. |
| <b>Contact oculaire:</b>     | Aucune information disponible. |

**Informations sur les effets toxicologiques****Toxicité aiguë (répertoire toutes les voies d'exposition possibles)**

|                               |   |
|-------------------------------|---|
| <b>Ingestion<br/>Produit:</b> | Non classé comme présentant une toxicité aiguë d'après les données disponibles. |
|-------------------------------|---|

**Produit: RIDGID Dark Thread Cutting Oil (Etats-Unis)**

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**Contact avec la peau****Produit:**

Non classé comme présentant une toxicité aiguë d'après les données disponibles.

**Inhalation****Produit:**

Non classé comme présentant une toxicité aiguë d'après les données disponibles.

**Toxicité à dose répétée****Produit:**

Aucune information disponible.

**Corrosion ou Irritation de la Peau****Produit:**

Aucune information disponible.

**Blessure ou Irritation Grave des Yeux****Produit:**

Aucune information disponible.

**Sensibilisation Respiratoire ou Cutanée****Produit:**

Aucune information disponible.

**Cancérogénicité****Produit:**

Aucune information disponible.

**Monographies du CIRC sur l'évaluation des risques de cancérogénicité pour l'homme :**

Aucun composant cancérigène identifié

**États-Unis. Rapport du NTP (National Toxicology Program) sur les cancérogènes :**

Aucun composant cancérigène identifié

**ÉTATS-UNIS. Substances spécialement réglementées par l'OSHA (29 CFR 1910.1001-1050)**

Aucun composant cancérigène identifié

**Mutagénicité des Cellules Germinales****In vitro****Produit:**

Aucune information disponible.

**In vivo****Produit:**

Aucune information disponible.

**Toxicité pour la reproduction****Produit:**

Aucune information disponible.

**Toxicité Spécifique au Niveau de l'Organe Cible- Exposition Unique****Produit:**

Aucune information disponible.

**Toxicité Spécifique au Niveau de l'Organe Cible- Expositions répétées****Produit:**

Aucune information disponible.

**Risque d'Aspiration****Produit:**

Aucune information disponible.

**Autres effets:**

Aucune information disponible.



**Produit: RIDGID Dark Thread Cutting Oil (Etats-Unis)**

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**12 – Données écologiques**

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**Informations générales:** Ce produit n'a pas été évalué pour la toxicité écologique ou d'autres effets de l'environnement.

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**13 – Recyclage**

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**Instructions pour l'élimination:** Le rejet, le traitement et l'élimination peuvent être soumis à des lois nationales, régionales ou locales. Éliminer les déchets dans une installation de traitement et d'élimination des déchets appropriée conformément aux lois et aux réglementations en vigueur et en fonction des caractéristiques du produit au moment de l'élimination. C'est la responsabilité de l'utilisateur de produit ou du propriétaire pour déterminer au moment de la disposition, qui se perdent les règlements doivent être appliqués.

**Emballages Contaminés:** Les conteneurs vides doivent être acheminés vers un site agréé pour le traitement des déchets à des fins de recyclage ou d'élimination.

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**14 – Transport**

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**Ministère des transports des États-Unis (Department of Transportation, DOT)**  
Non réglementé.

**IMDG**  
Non réglementé.

**IATA**  
Non réglementé.

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**15 – Réglementation**

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**Réglementations Fédérales des Etats-Unis**

**ÉTATS-UNIS. Substances spécialement réglementées par l'OSHA (29 CFR 1910.1001-1050)**  
Aucun présent ou aucun présent dans des quantités réglementées.

**Superfund Amendments and Reauthorization Act de 1986 (SARA)**

**Catégories de danger**

Ce produit est classé comme non dangereux selon la norme américaine OSHA 29CFR 1910.1200 (HazCom 2012)

**SARA 313 (Déclaration au TRI)**

Aucun présent ou aucun présent dans des quantités réglementées.

**États-Unis - Réglementation des États**

**États-Unis - Proposition 65 de la Californie**

Aucun composant réglementé par la Proposition 65 de la Californie n'est présent.

**Produit: RIDGID Dark Thread Cutting Oil (Etats-Unis)**

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**16 – Renseignements divers**

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Rédaction : Ridge Tool Company (OPSTD 6-103)

Date de publication : le 2 mai 2018

Dernière révision : le 27 mars 2017

Quoi que la société Ridge Tool estime que les affirmations, informations techniques et recommandations ci-présentes sont dignes de confiance, celles-ci ne sont données qu'à titre indicatif, sans aucune garantie expresse ou implicite, et ne sauraient engager la responsabilité civile de la société en cas de pertes, dommages et intérêts, voire frais directs ou indirects relevant de leur application.



## HOJA DE DATOS DE SEGURIDAD

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### Sección 1 – Identificación del producto y la compañía

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Nombre del producto:  
RIDGID Dark Thread Cutting Oil (Estados Unidos)

No. de catálogo:  
11471, 11491, 41590, 41600, 41610, 70830

Uso recomendado:  
Para cortar roscas

Restricciones de utilización:  
Uso industria seulement

Nombre de la compañía:

|   |
|---|
| <p><u>North America</u><br/>Ridge Tool Company<br/>400 Clark Street<br/>Elyria, Ohio 44035-6001, EE. UU.<br/>Teléfono 1-800-519-3456 (EE. UU.) (8:00 a 17:00 hora<br/>estándar del este, lunes a viernes)<br/>Teléfono de emergencia: Llame al 9-1-1 o al teléfono de<br/>emergencia local<br/><a href="http://www.RIDGID.com">www.RIDGID.com</a></p> |
|---|

Fecha de publicación: 2 de mayo de 2018

Révision: I

**Producto: RIDGID Dark Thread Cutting Oil (Estados Unidos)**

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**Sección 2 – Identificación de peligros**

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**Clasificación de Peligro**

Este producto está clasificado como no peligroso según la norma OSHA 29CFR 1910.1200 (HazCom 2012)

**Elementos de la Etiqueta**

- Símbolo de Peligro:** No hay símbolo
- Palabra de Advertencia:** No hay palabra de advertencia.
- Indicación de Peligro:** No aplicable
- Consejos de Prudencia** No aplicable

**Otros peligros que no dan lugar a clasificación SGA:** Ninguno.

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**Sección 3 – Composición e información sobre ingredientes**

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**Información general:** Este producto no contiene silicona o aditivos clorados.

**Componente(s) peligroso(s):**

| Determinación química | No. CAS      | Concentración |
|-----------------------|--------------|---------------|
| Mineral oil           | Confidencial | 20 - <50%     |
| Paraffin oils         | Confidencial | 20 - <50%     |

Las identidades químicas específicas y/o los porcentajes exactos han sido retenidos como secretos de fabricación.

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**Sección 4 – Primeros auxilios**

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- Ingestión:** Enjuagar a fondo la boca. Llamar a un CENTRO DE TOXICOLOGÍA / médico si la persona se encuentra mal. NO provocar el vómito.
- Inhalación:** Trasladar al aire libre. Llamar a un CENTRO DE TOXICOLOGÍA / médico si la persona se encuentra mal.
- Contacto con la Piel:** Quitar ropa y zapatos contaminados. Lave las áreas de contacto con agua y jabón. En caso de irritación cutánea: Consultar a un médico.
- Contacto con los ojos:** Lave con abundante agua. Si aparece irritación, busque asistencia médica. Continuar enjuagando durante al menos 15 minutos.

**Producto: RIDGID Dark Thread Cutting Oil (Estados Unidos)**

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**Los síntomas y efectos más importantes, tanto los agudos como los retardados**

**Síntomas:** No hay datos disponibles.

**Indicación de asistencia médica inmediata y tratamiento especial necesario**

**Tratamiento:** Obtenga atención médica en caso de síntomas.

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**Sección 5 – Medidas contra incendios**

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**Riesgos Generales de Incendio:** Ningún riesgo excepcional de incendio o explosión señalado.

**Medios de extinción adecuados (y no adecuados)**

**Medios de extinción apropiados:** Agua pulverizada, neblina, CO2, polvos químicos, o espuma normal. Seleccione el medio de extinción más apropiado, teniendo en cuenta la posible presencia de otros productos químicos.

**Medios de extinción no apropiados:** No utilice chorro de agua, pues extendería el fuego.

**Peligros específicos derivados de la sustancia química:** El calor puede ocasionar explosión de los recipientes. En caso de incendio se pueden formar gases nocivos.

**Equipo especial de protección y medias de precaución para los bomberos**

**Medidas especiales de lucha contra incendios:** No hay datos disponibles.

**Equipos de protección especial que debe llevar el personal de lucha contra incendios:** Los bomberos deben utilizar un equipo de protección estándar incluyendo chaqueta ignífuga, casco con careta, guantes, botas de goma, y, en espacios cerrados, equipo de respiración autónomo (SCBA, según sus siglas en inglés).

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**Sección 6 – Medidas en caso de liberación accidental**

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**Precauciones personales, equipo de protección y procedimientos de emergencia:** Consulte la sección 8 de la FDS sobre equipo de protección personal. No toque los recipientes dañados o el material derramado a menos que esté usando ropa protectora adecuada. Mantener alejado al personal no autorizado. Asegúrese una ventilación apropiada.

**Métodos y material de contención y de limpieza:** Absorber con arena u otro absorbente inerte. Detenga el flujo del material, si esto no representa un riesgo.

**Precauciones Relativas al Medio Ambiente:** Evitar su liberación al medio ambiente. No contamine el drenaje o el alcantarillado. Impedir nuevos escapes o derrames de forma segura.



## Producto: RIDGID Dark Thread Cutting Oil (Estados Unidos)

### Sección 7 – Manipulación y almacenamiento

**Precauciones para una manipulación segura:**

Los usuarios finales deben seguir las mejores prácticas de la industria para el manejo y uso de este producto.

La dirección puede ser encontrada usando la versión corriente de ASTM Standard E1497-05: Standard Practice for Selection and Safe Use of Water-Miscible and Straight Oil Metal Removal Fluids

Respete las normas para una manipulación correcta de productos químicos. Use equipo protector personal adecuado. No exponga al calor intenso cuando el producto puede ampliar y presurizar el contenedor.

**Condiciones de almacenamiento seguro, incluidas posibles incompatibilidades:**

Guárdese en el recipiente original bien cerrado. Evite el contacto con agentes reductores. Consérvese alejado de materiales incompatibles. Vida útil: 720 días

### Sección 8 – Controles contra la exposición: protección personal

**Valores Límite**

| Determinación química              | Tipo | Valores Límite de Exposición | Fuente  |
|------------------------------------|------|------------------------------|---|
| Mineral oil - Niebla               | PEL  | 5 mg/m3                      | NOS. OSHA la tabla Z-1 límites para contaminantes del aire (29 CFR 1910.1000) (01 2017) |
| Mineral oil - Niebla               | TWA  | 5 mg/m3                      | NOS. OSHA la Tabla Z-1-A (29 CFR 1910.1000) (1989)                                      |
| Paraffin oils - Fracción inhalable | TWA  | 5 mg/m3                      | EE.UU. ACGIH Valores umbrales límite (03 2014)  |
| Paraffin oils - Niebla             | PEL  | 5 mg/m3                      | NOS. OSHA la tabla Z-1 límites para contaminantes del aire (29 CFR 1910.1000) (02 2006) |
| Paraffin oils - Niebla             | TWA  | 5 mg/m3                      | NOS. OSHA la Tabla Z-1-A (29 CFR 1910.1000) (1989)                                      |

**Medidas de protección:**

Utilizar los equipos de protección individual según las necesidades.

**Protección respiratoria:**

En caso de ventilación insuficiente, utilice un equipo respiratorio adecuado. Consulte al supervisor sobre la norma de la compañía de protección respiratoria.

**Protección de los Ojos:**

Use gafas de seguridad con protectores laterales (o gafas estancas).

**Protección de la Piel y del Cuerpo:**

Use ropa protectora apropiada para el riesgo de exposición. Tenga en cuenta otros peligros, como las piezas giratorias. Comuníquese con el profesional o fabricante de salud y seguridad para obtener información específica.



**Producto: RIDGID Dark Thread Cutting Oil (Estados Unidos)**

**Medidas de higiene:** Seguir siempre buenas medidas de higiene personal, como lavarse después de manipular el material y antes de comer, beber y/o fumar. Lave rutinariamente la ropa de trabajo para eliminar los contaminantes. Deseche el calzado contaminado que no se pueda limpiar.

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**Sección 9 – Propiedades físicas y químicas**

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**Aspecto**

|  |   |
|--|---|
| <b>Forma/estado:</b>   | Líquido                                 |
| <b>Forma/Figura:</b>   | No hay datos disponibles.               |
| <b>Color:</b>  | Negro                                   |
| <b>Olor:</b>   | Ligero, petróleo/solvente               |
| <b>Umbral de olor:</b>   | No hay datos disponibles.               |
| <b>pH:</b>   | No hay datos disponibles.               |
| <b>Punto de fusión / Punto de congelación:</b>                       | No hay datos disponibles.               |
| <b>Punto inicial de ebullición e intervalo de ebullición:</b>        | No hay datos disponibles.               |
| <b>Punto de inflamación:</b>   | 196.11 °C (385.00 °F)                   |
| <b>Tasa de evaporación:</b>  | No hay datos disponibles.               |
| <b>Inflamabilidad (sólido, gas):</b>                                 | No hay datos disponibles.               |
| <b>Límites superior/inferior de inflamabilidad o de explosividad</b> |   |
| <b>Límite superior de inflamabilidad (LSI) (%):</b>                  | No hay datos disponibles.               |
| <b>Límite inferior de inflamabilidad (LII) (%):</b>                  | No hay datos disponibles.               |
| <b>Límite superior de explosividad (%):</b>                          | No hay datos disponibles.               |
| <b>Límite inferior de explosividad (%):</b>                          | No hay datos disponibles.               |
| <b>Presión de vapor:</b>   | No hay datos disponibles.               |
| <b>Densidad del vapor:</b>   | No hay datos disponibles.               |
| <b>Densidad relativa:</b>  | 0.878                                   |
| <b>Solubilidad(es)</b>   |   |
| <b>Solubilidad en agua:</b>  | Insoluble                               |
| <b>Solubilidad (otra):</b>   | No hay datos disponibles.               |
| <b>Coefficiente de reparto (n-octanol/agua):</b>                     | No hay datos disponibles.               |
| <b>Temperatura de autoignición:</b>                                  | No hay datos disponibles.               |
| <b>Temperatura de descomposición:</b>                                | No hay datos disponibles.               |
| <b>Viscosidad:</b>   | 42.5 mm <sup>2</sup> /s (40 °C, medido) |
| <b>OTRA INFORMACIÓN</b>  |   |
| <b>VOC:</b>  | 1.99 g/l (ASTM E 1868-10)               |

**Producto: RIDGID Dark Thread Cutting Oil (Estados Unidos)**

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**Sección 10 – Estabilidad y reactividad**

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|  |  |
|--|--|
| <b>Reactividad:</b>                            | No reactivo durante uso normal.  |
| <b>Estabilidad Química:</b>                    | El material es estable bajo condiciones normales.  |
| <b>Posibilidad de Reacciones Peligrosas:</b>   | Ningunos en circunstancias normales.   |
| <b>Condiciones que Deben Evitarse:</b>         | Evite el calor o la contaminación.   |
| <b>Materiales Incompatibles:</b>               | No hay datos disponibles.  |
| <b>Productos de Descomposición Peligrosos:</b> | La descomposición térmica o la combustión pueden liberar óxido de carbono u otros gases o vapores tóxicos. |

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**Sección 11 – Información toxicológica**

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**Información sobre posibles vías de exposición**

|                               |  |
|-------------------------------|--|
| <b>Ingestión:</b>             | Puede ingerirse accidentalmente. La ingestión puede causar irritación y malestar.  |
| <b>Inhalación:</b>            | La inhalación es la principal vía de exposición. En concentraciones altas, los vapores, humos o neblinas pueden irritar la nariz, la garganta y las membranas mucosas. |
| <b>Contacto con la Piel:</b>  | El contacto prolongado con la piel puede causar rubor e irritación.  |
| <b>Contacto con los ojos:</b> | El contacto con los ojos es posible y debe evitarse.   |

**Síntomas relacionados a las características físicas, químicas y toxicológicas**

|                               |                           |
|-------------------------------|---------------------------|
| <b>Ingestión:</b>             | No hay datos disponibles. |
| <b>Inhalación:</b>            | No hay datos disponibles. |
| <b>Contacto con la Piel:</b>  | No hay datos disponibles. |
| <b>Contacto con los ojos:</b> | No hay datos disponibles. |

**Información sobre los efectos toxicológicos**

**Toxicidad aguda (listar todas las vías de exposición posibles)**

|                            |   |
|----------------------------|---|
| <b>Ingestión Producto:</b> | No clasificado en cuanto a toxicidad aguda con los datos disponibles. |
|----------------------------|---|

**Producto: RIDGID Dark Thread Cutting Oil (Estados Unidos)**

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**Contacto dermal**

**Producto:** No clasificado en cuanto a toxicidad aguda con los datos disponibles.

**Inhalación**

**Producto:** No clasificado en cuanto a toxicidad aguda con los datos disponibles.

**Toxicidad por dosis repetidas**

**Producto:** No hay datos disponibles.

**Corrosión/Irritación Cutáneas**

**Producto:** No hay datos disponibles.

**Lesiones Oculares Graves/Irritación Ocular**

**Producto:** No hay datos disponibles.

**Sensibilización de la Piel o Respiratoria**

**Producto:** No hay datos disponibles.

**Carcinogenicidad**

**Producto:** No hay datos disponibles.

**Monografías de IARC sobre la evaluación de los riesgos carcinogénicos para los humanos**

No se identificaron componentes carcinogénicos

**Programa Nacional de Toxicología de EUA (NTP). Reporte sobre carcinógenos**

No se identificaron componentes carcinogénicos

**EEUU. OSHA Sustancias específicamente reguladas (29 CFR 1910.1001-1050)**

No se identificaron componentes carcinogénicos

**Mutagenicidad en Células Germinales****En vitro**

**Producto:** No hay datos disponibles.

**En vivo**

**Producto:** No hay datos disponibles.

**Toxicidad para la reproducción**

**Producto:** No hay datos disponibles.

**Toxicidad Sistémica Específica de Órganos Diana- Exposición Única**

**Producto:** No hay datos disponibles.

**Toxicidad Sistémica Específica de Órganos Diana- Exposiciones Repetidas**

**Producto:** No hay datos disponibles.

**Peligro por Aspiración**

**Producto:** No hay datos disponibles.

**Otros síntomas:**

No hay datos disponibles.



Producto: RIDGID Dark Thread Cutting Oil (Estados Unidos)

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## Sección 12 – Información ecológica

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**Información general:** Este producto no ha sido evaluado para la toxicidad ecológica u otros efectos ambientales.

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## Sección 13 – Consideraciones relativas a la eliminación

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**Instrucciones para la eliminación:** Las actividades de descarga, tratamiento o eliminación pueden estar sujetos a leyes nacionales, estatales o locales. Elimine el residuo en una instalación adecuada de tratamiento y eliminación de acuerdo con las leyes y reglamentos correspondientes y características del producto en el momento de la eliminación. Es responsabilidad del usuario del producto o propietario para determinar en el momento de la disposición, que las regulaciones de residuos debe ser aplicado.

**Envases Contaminados:** Los contenedores vacíos deben ser llevados a un sitio de manejo aprobado para desechos, para el reciclado o eliminación.

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## Sección 14 – Información de transporte

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**DOT**  
No reglamentado.

**IMDG**  
No reglamentado.

**IATA**  
No reglamentado.

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## Sección 15 – Información sobre reglamentos

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**Reglamentos Federales de EE.UU.**

**EEUU. OSHA Sustancias específicamente reguladas (29 CFR 1910.1001-1050)**  
No están presentes, o no están presentes en las cantidades reguladas.

**Ley de Enmiendas y Reautorización del Superfondo de 1986 (SARA)**

**Categorías de peligro**

Este producto está clasificado como no peligroso según la norma OSHA 29CFR 1910.1200 (HazCom 2012)

**SARA 313 (Reporte TRI, Acerca del Inventario de Liberación de Sustancias Tóxicas)**

No están presentes, o no están presentes en las cantidades reguladas.



**Producto: RIDGID Dark Thread Cutting Oil (Estados Unidos)**

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**Regulaciones de un Estado de EUA**

**Proposición 65 del Estado de California, EUA**

No hay presencia de ningún ingrediente regulado por CA Prop 65.

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**Sección 16 – Información adicional**

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Preparado por: Ridge Tool Company (OPSTD 6-103)

Fecha de emisión: 2 de mayo de 2018

Fecha de la última revisión: 27 de marzo de 2017

RIDGE TOOL CONSIDERA QUE TODAS LAS DECLARACIONES, INFORMACIÓN TÉCNICA Y RECOMENDACIONES EN EL PRESENTE DOCUMENTO SON CONFIABLES, PERO SE PRESENTAN SIN GARANTÍA ALGUNA, SEA EXPRESA O IMPLÍCITA, Y NO ASUMIMOS RESPONSABILIDAD ALGUNA POR PÉRDIDAS, DAÑOS O GASTOS, DIRECTOS O CONSECUENTES, QUE SURJAN DE SU USO.

## Safety Data Sheet

Printing date 01/11/2021

Revised On 01/11/2021

## 1 Identification of the substance and manufacturer

**Trade name:** SPRA-GALV PRIMER  
**Product code:** 0000160845  
**Recommended use:** Paint and coatings application.  
**Uses advised against:** Any that differs from the recommended use.  
**Manufacturer/Supplier:** Seymour of Sycamore  
 917 Crosby Avenue  
 Sycamore, IL 60178 USA  
 phone: 815-895-9101  
 www.seymourpaint.com

**Emergency telephone number:** 1-800-255-3924

Seymour of Sycamore  
 3041 Dougall Avenue, Suite 503  
 Windsor, ONT N9E 1S3 CANADA  
 phone: 800-435-4482  
 www.seymourpaint.com

## 2 Hazard(s) identification

## Classification of the substance or mixture

Flam. Aerosol 1 H222 Extremely flammable aerosol.  
 Press. Gas H280 Contains gas under pressure; may explode if heated.  
 Skin Irrit. 2 H315 Causes skin irritation.  
 Repr. 1B H360 May damage fertility or the unborn child.  
 STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

Additional information:  
GHS Hazard pictograms

GHS02 GHS04 GHS07 GHS08

Signal word  
Hazard statements

Danger  
 Extremely flammable aerosol.  
 Contains gas under pressure; may explode if heated.  
 Causes skin irritation.  
 May damage fertility or the unborn child.

## Precautionary statements

May cause damage to organs through prolonged or repeated exposure.  
 Obtain special instructions before use.  
 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
 Do not spray on an open flame or other ignition source.  
 Pressurized container: Do not pierce or burn, even after use.  
 Do not breathe dust/fume/gas/mist/vapors/spray.  
 Wash thoroughly after handling.  
 Store in a well-ventilated place.  
 Store locked up.  
 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.  
 Dispose of contents/container in accordance with local/regional/national/international regulations.

## 3 Composition/information on ingredients

## Chemical characterization: Mixtures

**Chemical Description:** This product is a mixture of the substances listed below with nonhazardous additions.

## Dangerous components:

|            |                  |          |
|------------|------------------|----------|
| 108-88-3   | Toluene          | ≥15-<20% |
| 74-98-6    | propane          | 5-10%    |
| 110-19-0   | Isobutyl Acetate | 5-10%    |
| 106-97-8   | n-butane         | 5-10%    |
| 64742-47-8 | Mineral Spirits  | 5-10%    |

## 4 First-aid measures

**After inhalation:** Supply fresh air; consult doctor in case of complaints.  
**After skin contact:** Remove contaminated clothing. Wash exposed area with soap and water.  
**After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.  
**After swallowing:** Rinse mouth with water. Do not induce vomiting.  
**Most important symptoms and effects:** Dizziness  
**Indication of any immediate medical attention needed:** No further relevant information available.

## 5 Fire-fighting measures

**Extinguishing agents:** CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray.  
**Special hazards:** Can form explosive gas-air mixtures.  
**Protective equipment for firefighters:** A respiratory protective device may be necessary.

(Contd. on page 2)

## Safety Data Sheet

Printing date 01/11/2021

Revised On 01/11/2021

Trade name: SPRA-GALV PRIMER

(Contd. of page 1)

**6 Accidental release measures****Personal precautions, protective equipment and emergency procedures:**

Use respiratory protective device against the effects of fumes/dust/aerosol.

**Methods and material for containment and cleaning up:**

Dispose contaminated material as waste according to section 13.

**7 Handling and storage****Precautions for safe handling**

Use only in well ventilated areas.

**Storage requirements:**

Keep away from sources of heat and direct sunlight. Do not warehouse in subfreezing conditions. Store locked up.

**8 Exposure controls/personal protection****Components with limit values that require monitoring at the workplace:****108-88-3 Toluene**

PEL (USA) Long-term value: 200 ppm  
Ceiling limit value: 300; 500\* ppm  
\*10-min peak per 8-hr shift

REL (USA) Short-term value: 560 mg/m<sup>3</sup>, 150 ppm  
Long-term value: 375 mg/m<sup>3</sup>, 100 ppm

TLV (USA) Long-term value: 20 ppm  
BEI, NIC-OTO

**74-98-6 propane**

PEL (USA) Long-term value: 1800 mg/m<sup>3</sup>, 1000 ppm

REL (USA) Long-term value: 1800 mg/m<sup>3</sup>, 1000 ppm

TLV (USA) refer to Appendix F in TLVs&BEIs book; D, EX

**110-19-0 Isobutyl Acetate**

PEL (USA) Long-term value: 700 mg/m<sup>3</sup>, 150 ppm

REL (USA) Long-term value: 700 mg/m<sup>3</sup>, 150 ppm

TLV (USA) Short-term value: 712 mg/m<sup>3</sup>, 150 ppm  
Long-term value: 238 mg/m<sup>3</sup>, 50 ppm

**106-97-8 n-butane**

REL (USA) Long-term value: 1900 mg/m<sup>3</sup>, 800 ppm

TLV (USA) Short-term value: 2370 mg/m<sup>3</sup>, 1000 ppm  
(EX)

**Hygienic protection:**

Immediately remove all soiled and contaminated clothing.

Wash hands after use.

Store protective clothing separately.

Avoid contact with the eyes and skin.

Do not eat or drink while working.

**Breathing equipment:**

A respirator is generally not necessary when using this product outdoors or in large open areas. In cases where short and/or long term overexposure exists, a charcoal filter respirator should be worn.

If you suspect overexposure conditions exist, please consult an authority on chemical hygiene.

**Hand protection:**

Nitrile gloves.

**Eye protection:**

The glove material must be impermeable and resistant to the substance.

Tightly sealed goggles

**9 Physical and chemical properties****Appearance:**

Aerosol.

**Odor:**

Aromatic

**Odor threshold:**

Not determined.

**pH-value:**

Not determined.

**Melting point/Melting range**

Undetermined.

**Boiling point:**

-44 °C (-47.2 °F)

**Flash point:**

-19 °C (-2.2 °F)

**Flammability (solid, gas):**

Extremely flammable.

**Decomposition temperature:**

Not determined.

**Auto igniting:**

Product is not self-igniting.

**Danger of explosion:**

In use, may form flammable/explosive vapour-air mixture.

**Lower Explosion Limit:**

Not determined.

**Upper Explosion Limit:**

Not determined.

**Vapor pressure:**

Not determined.

**Relative Density:**

Between 0.77 and 0.85 (Water equals 1.00)

**Vapor density**

Not determined.

(Contd. on page 3)

## Safety Data Sheet

Printing date 01/11/2021

Revised On 01/11/2021

Trade name: SPRA-GALV PRIMER

Evaporation rate: Not applicable.  
 Partition coefficient: n-octanol/water: Not determined.  
 Solubility: Not determined.  
 Viscosity: Not determined.

(Contd. of page 2)

**10 Stability and reactivity**

Reactivity: Stable at normal temperatures.  
 Conditions to avoid: Do not allow can to exceed 120 degrees Fahrenheit. Do not warehouse in subfreezing temperatures.  
 Chemical stability: Not fully evaluated.  
 Possibility of hazardous reactions: No dangerous reactions known.  
 Incompatible materials: No further relevant information available.  
 Hazardous decomposition: No dangerous decomposition products known.

**11 Toxicological information**

LD/LC50 values that are relevant for classification:

**110-19-0 Isobutyl Acetate**

Oral LD50 4,763 mg/kg (rbt)

Information on toxicological effects: No data available.  
 Skin effects: No irritant effect.  
 Eye effects: Irritating effect.  
 Sensitization: No sensitizing effects known.

**12 Ecological information**

Aquatic toxicity: Hazardous for water, do not empty into drains.  
 Persistence and degradability: The product is degradable after prolonged exposure to natural weathering processes.  
 Other information: This product does not contain any chlorofluorocarbons (CFC's), hydrochlorofluorocarbons (HCFC's), perfluorocarbons (PFC's), heavy metals (chromium, lead, cadmium), or chlorinated solvents.  
 Bioaccumulative potential: No further relevant information available.  
 Mobility in soil: No further relevant information available.  
 Other adverse effects: No further relevant information available.

**13 Disposal considerations**

Dispose of in accordance with local, state, and federal regulations. Do not puncture, incinerate, or compact. Partially empty cans must be disposed of responsibly. Do not heat or cut empty containers with electric or gas torches.  
 Recommendation: Completely empty cans should be recycled.  
 Recommended cleansing agent: Water, if necessary with cleansing agents.

**14 Transport information**

UN-Number: UN1950  
 DOT: UN1950  
 DOT: Aerosols, flammable  
 ADR: 1950 Aerosols, ENVIRONMENTALLY HAZARDOUS  
 Transport hazard class(es):  
 Class: 2.1  
 Marine pollutant: Symbol (fish and tree)  
 Special precautions for user: Warning: Gases  
 EMS Number: F-D,S-U  
 Packaging Group: --  
 UN "Model Regulation": UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS

**15 Regulatory information****SARA Section 355 (extremely hazardous substances):**

None of the ingredients in this product are listed.

**SARA Section 313 (Specific toxic chemical listings):**

7440-66-6 zinc powder

108-88-3 Toluene

Toxic Substances Control Act (TSCA): All hazardous ingredients are found on the inventory list of substances.  
 Canadian Domestic Substances List (DSL): All ingredients are listed or exempted.  
 Consumer Product Safety Commission (CPSC): This product complies with 16 CFR 1303 and does not contain more than 90 ppm of lead.

(Contd. on page 4)



## Safety Data Sheet

Printing date 01/11/2021

Revised On 01/11/2021

Trade name: SPRA-GALV PRIMER

(Contd. of page 3)

**California Proposition 65 chemicals known to cause cancer:**

None of the ingredients in this product are listed.

**Prop 65 chemicals known to cause birth defects or reproductive harm:**

108-88-3 Toluene

**EPA:**

7440-66-6 zinc powder

D, I, II

110-19-0 Isobutyl Acetate

D

**16 Other information****Contact:**

Regulatory Affairs

## Safety Data Sheet

Printing date 01/11/2021

Revised On 01/11/2021

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**Trade name:** SPRA-GALV PRIMER  
**Product code:** 0000160845  
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**Uses advised against:** Any that differs from the recommended use.  
**Manufacturer/Supplier:** Seymour of Sycamore  
 917 Crosby Avenue  
 Sycamore, IL 60178 USA  
 phone: 815-895-9101  
 www.seymourpaint.com

**Emergency telephone number:** 1-800-255-3924

Seymour of Sycamore  
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## 2 Hazard(s) identification

## Classification of the substance or mixture

Flam. Aerosol 1 H222 Extremely flammable aerosol.  
 Press. Gas H280 Contains gas under pressure; may explode if heated.  
 Skin Irrit. 2 H315 Causes skin irritation.  
 Repr. 1B H360 May damage fertility or the unborn child.  
 STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

Additional information:  
GHS Hazard pictograms

GHS02 GHS04 GHS07 GHS08

Signal word  
Hazard statements

Danger  
 Extremely flammable aerosol.  
 Contains gas under pressure; may explode if heated.  
 Causes skin irritation.  
 May damage fertility or the unborn child.

## Precautionary statements

May cause damage to organs through prolonged or repeated exposure.  
 Obtain special instructions before use.  
 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
 Do not spray on an open flame or other ignition source.  
 Pressurized container: Do not pierce or burn, even after use.  
 Do not breathe dust/fume/gas/mist/vapors/spray.  
 Wash thoroughly after handling.  
 Store in a well-ventilated place.  
 Store locked up.  
 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.  
 Dispose of contents/container in accordance with local/regional/national/international regulations.

## 3 Composition/information on ingredients

## Chemical characterization: Mixtures

**Chemical Description:** This product is a mixture of the substances listed below with nonhazardous additions.

## Dangerous components:

|            |                  |          |
|------------|------------------|----------|
| 108-88-3   | Toluene          | ≥15-<20% |
| 74-98-6    | propane          | 5-10%    |
| 110-19-0   | Isobutyl Acetate | 5-10%    |
| 106-97-8   | n-butane         | 5-10%    |
| 64742-47-8 | Mineral Spirits  | 5-10%    |

## 4 First-aid measures

**After inhalation:** Supply fresh air; consult doctor in case of complaints.  
**After skin contact:** Remove contaminated clothing. Wash exposed area with soap and water.  
**After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.  
**After swallowing:** Rinse mouth with water. Do not induce vomiting.  
**Most important symptoms and effects:** Dizziness  
**Indication of any immediate medical attention needed:** No further relevant information available.

## 5 Fire-fighting measures

**Extinguishing agents:** CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray.  
**Special hazards:** Can form explosive gas-air mixtures.  
**Protective equipment for firefighters:** A respiratory protective device may be necessary.

(Contd. on page 2)

## Safety Data Sheet

Printing date 01/11/2021

Revised On 01/11/2021

Trade name: SPRA-GALV PRIMER

(Contd. of page 1)

**6 Accidental release measures****Personal precautions, protective equipment and emergency procedures:**

Use respiratory protective device against the effects of fumes/dust/aerosol.

**Methods and material for containment and cleaning up:**

Dispose contaminated material as waste according to section 13.

**7 Handling and storage****Precautions for safe handling  
Storage requirements:**

Use only in well ventilated areas.

Keep away from sources of heat and direct sunlight. Do not warehouse in subfreezing conditions. Store locked up.

**8 Exposure controls/personal protection****Components with limit values that require monitoring at the workplace:****108-88-3 Toluene**

|           |   |
|-----------|---|
| PEL (USA) | Long-term value: 200 ppm<br>Ceiling limit value: 300; 500* ppm<br>*10-min peak per 8-hr shift |
|-----------|---|

|           |   |
|-----------|---|
| REL (USA) | Short-term value: 560 mg/m <sup>3</sup> , 150 ppm<br>Long-term value: 375 mg/m <sup>3</sup> , 100 ppm |
|-----------|---|

|           |   |
|-----------|---|
| TLV (USA) | Long-term value: 20 ppm<br>BEI, NIC-OTO |
|-----------|---|

**74-98-6 propane**

|           |  |
|-----------|--|
| PEL (USA) | Long-term value: 1800 mg/m <sup>3</sup> , 1000 ppm |
|-----------|--|

|           |  |
|-----------|--|
| REL (USA) | Long-term value: 1800 mg/m <sup>3</sup> , 1000 ppm |
|-----------|--|

|           |  |
|-----------|--|
| TLV (USA) | refer to Appendix F in TLVs&BEIs book; D, EX |
|-----------|--|

**110-19-0 Isobutyl Acetate**

|           |  |
|-----------|--|
| PEL (USA) | Long-term value: 700 mg/m <sup>3</sup> , 150 ppm |
|-----------|--|

|           |  |
|-----------|--|
| REL (USA) | Long-term value: 700 mg/m <sup>3</sup> , 150 ppm |
|-----------|--|

|           |  |
|-----------|--|
| TLV (USA) | Short-term value: 712 mg/m <sup>3</sup> , 150 ppm<br>Long-term value: 238 mg/m <sup>3</sup> , 50 ppm |
|-----------|--|

**106-97-8 n-butane**

|           |   |
|-----------|---|
| REL (USA) | Long-term value: 1900 mg/m <sup>3</sup> , 800 ppm |
|-----------|---|

|           |   |
|-----------|---|
| TLV (USA) | Short-term value: 2370 mg/m <sup>3</sup> , 1000 ppm<br>(EX) |
|-----------|---|

**Hygienic protection:**

Immediately remove all soiled and contaminated clothing.

Wash hands after use.

Store protective clothing separately.

Avoid contact with the eyes and skin.

Do not eat or drink while working.

**Breathing equipment:**

A respirator is generally not necessary when using this product outdoors or in large open areas. In cases where short and/or long term overexposure exists, a charcoal filter respirator should be worn.

If you suspect overexposure conditions exist, please consult an authority on chemical hygiene.

**Hand protection:**

Nitrile gloves.

**Eye protection:**

The glove material must be impermeable and resistant to the substance.

Tightly sealed goggles

**9 Physical and chemical properties****Appearance:**

Aerosol.

**Odor:**

Aromatic

**Odor threshold:**

Not determined.

**pH-value:**

Not determined.

**Melting point/Melting range**

Undetermined.

**Boiling point:**

-44 °C (-47.2 °F)

**Flash point:**

-19 °C (-2.2 °F)

**Flammability (solid, gas):**

Extremely flammable.

**Decomposition temperature:**

Not determined.

**Auto igniting:**

Product is not self-igniting.

**Danger of explosion:**

In use, may form flammable/explosive vapour-air mixture.

**Lower Explosion Limit:**

Not determined.

**Upper Explosion Limit:**

Not determined.

**Vapor pressure:**

Not determined.

**Relative Density:**

Between 0.77 and 0.85 (Water equals 1.00)

**Vapor density**

Not determined.

(Contd. on page 3)

## Safety Data Sheet

Printing date 01/11/2021

Revised On 01/11/2021

Trade name: SPRA-GALV PRIMER

Evaporation rate: Not applicable.  
 Partition coefficient: n-octanol/water: Not determined.  
 Solubility: Not determined.  
 Viscosity: Not determined.

(Contd. of page 2)

**10 Stability and reactivity**

Reactivity: Stable at normal temperatures.  
 Conditions to avoid: Do not allow can to exceed 120 degrees Fahrenheit. Do not warehouse in subfreezing temperatures.  
 Chemical stability: Not fully evaluated.  
 Possibility of hazardous reactions: No dangerous reactions known.  
 Incompatible materials: No further relevant information available.  
 Hazardous decomposition: No dangerous decomposition products known.

**11 Toxicological information**

LD/LC50 values that are relevant for classification:

**110-19-0 Isobutyl Acetate**

Oral LD50 4,763 mg/kg (rbt)

Information on toxicological effects: No data available.  
 Skin effects: No irritant effect.  
 Eye effects: Irritating effect.  
 Sensitization: No sensitizing effects known.

**12 Ecological information**

Aquatic toxicity: Hazardous for water, do not empty into drains.  
 Persistence and degradability: The product is degradable after prolonged exposure to natural weathering processes.  
 Other information: This product does not contain any chlorofluorocarbons (CFC's), hydrochlorofluorocarbons (HCFC's), perfluorocarbons (PFC's), heavy metals (chromium, lead, cadmium), or chlorinated solvents.  
 Bioaccumulative potential: No further relevant information available.  
 Mobility in soil: No further relevant information available.  
 Other adverse effects: No further relevant information available.

**13 Disposal considerations**

Dispose of in accordance with local, state, and federal regulations. Do not puncture, incinerate, or compact. Partially empty cans must be disposed of responsibly. Do not heat or cut empty containers with electric or gas torches.  
 Recommendation: Completely empty cans should be recycled.  
 Recommended cleansing agent: Water, if necessary with cleansing agents.

**14 Transport information**

UN-Number: UN1950  
 DOT: UN1950  
 DOT: Aerosols, flammable  
 ADR: 1950 Aerosols, ENVIRONMENTALLY HAZARDOUS  
 Transport hazard class(es):  
 Class: 2.1  
 Marine pollutant: Symbol (fish and tree)  
 Special precautions for user: Warning: Gases  
 EMS Number: F-D,S-U  
 Packaging Group: --  
 UN "Model Regulation": UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS

**15 Regulatory information****SARA Section 355 (extremely hazardous substances):**

None of the ingredients in this product are listed.

**SARA Section 313 (Specific toxic chemical listings):**

7440-66-6 zinc powder

108-88-3 Toluene

Toxic Substances Control Act (TSCA): All hazardous ingredients are found on the inventory list of substances.  
 Canadian Domestic Substances List (DSL): All ingredients are listed or exempted.  
 Consumer Product Safety Commission (CPSC): This product complies with 16 CFR 1303 and does not contain more than 90 ppm of lead.

(Contd. on page 4)

## Safety Data Sheet

Printing date 01/11/2021

Revised On 01/11/2021

Trade name: SPRA-GALV PRIMER

(Contd. of page 3)

**California Proposition 65 chemicals known to cause cancer:**

None of the ingredients in this product are listed.

**Prop 65 chemicals known to cause birth defects or reproductive harm:**

108-88-3 Toluene

**EPA:**

7440-66-6 zinc powder

D, I, II

110-19-0 Isobutyl Acetate

D

**16 Other information****Contact:**

Regulatory Affairs

# Safety Data Sheet: SUPER BIG TEX

Supersedes Date: 02/09/2017

Issuing Date: 04/22/2020

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** SUPER BIG TEX  
**Recommended use** Water based degreaser  
**Information on Manufacturer**  
CERTIFIED LABS, DIV. OF NCH CORP.  
BOX 152170  
IRVING, TEXAS 75015

**Product Code:** 0237  
**Chemical nature** Mixture  
**Emergency Telephone**  
CHEMTREC® 800-424-9300  
**Telephone inquiry**  
972-579-2477

## 2. HAZARD IDENTIFICATION

**Color** Yellow - Grass green

**Physical state** Liquid

**Odor** Mild

### GHS Classification

#### Physical Hazards

Corrosive to Metals

Category 1

#### Health Hazard

Skin Corrosion/Irritation  
Serious Eye Damage/Eye Irritation

Category 1

Category 1

#### Other hazards

None

### Labeling

#### Signal Word

**DANGER**



#### Hazard statements

H314 - Causes severe skin burns and eye damage  
H290 - May be corrosive to metals

#### Precautionary Statements

P280 - Wear protective gloves, protective clothing, eye protection and face protection.  
P264 - Wash face, hands and any exposed skin thoroughly after handling.  
P260 - Do not breathe vapor or mist  
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
P332 + P313 - If skin irritation occurs, get medical attention.  
P363 - Wash contaminated clothing before reuse  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 - Immediately call a physician.  
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing  
P342 + P311 - If experiencing respiratory symptoms, call a physician.  
P301+ P330 + P331 - IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Call a physician if unwell.  
P390 - Absorb spillage to prevent damage.  
P406 - Store in a corrosion-resistant container.  
P501 - Dispose of contents and container in accordance with applicable regulations

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

| Chemical name                                      | CAS No.    | Weight-% |
|--|------------|----------|
| Sodium metasilicate                                | 6834-92-0  | 1-5      |
| 2,6,8-Trimethyl-4-nonyloxy polyethylene oxyethanol | 60828-78-6 | 1-5      |

\*The exact percentage (concentration) of composition has been withheld as a trade secret

#### 4. FIRST AID MEASURES

|                           |   |
|---------------------------|---|
| <b>General advice</b>     | Do not get in eyes, on skin or on clothing. Do not breathe vapor or mist.   |
| <b>Eye Contact</b>        | Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention immediately. |
| <b>Skin Contact</b>       | Remove immediately all contaminated clothing. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately.                         |
| <b>Inhalation</b>         | Move to fresh air. In case of shortness of breath, give oxygen. If breathing has stopped, apply artificial respiration. Get medical attention immediately.                  |
| <b>Ingestion</b>          | Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person.                            |
| <b>Notes to physician</b> | The product causes burns of eyes, skin and mucous membranes. Control of circulatory system, shock therapy if needed.  |

#### 5. FIRE-FIGHTING MEASURES

|  |   |                       |                          |
|--|---|-----------------------|--------------------------|
| <b>Flash Point</b>   | Does not flash  | <b>Method</b>         | No data available        |
| <b>Flammability Limits in Air %:</b>                         | Hydrogen, by reaction with metals.  | <b>Upper:</b>         | 75                       |
|  |   | <b>Lower:</b>         | 4                        |
| <b>Suitable Extinguishing Media</b>                          | Water spray. Carbon dioxide (CO <sub>2</sub> ). Foam. Dry chemical. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |                       |                          |
| <b>Specific hazards arising from the chemical</b>            | Material can create slippery conditions. Contact with metals may evolve flammable hydrogen gas.   |                       |                          |
| <b>Protective Equipment and Precautions for Firefighters</b> | As in any fire, wear self-contained breathing apparatus pressure-demand, NOHSC (approved or equivalent) and full protective gear.   |                       |                          |
| <b>NFPA</b>  | <b>Health</b> 3   | <b>Flammability</b> 0 | <b>Instability</b> 0     |
| <b>HMIS -</b>  | <b>Health</b> 3   | <b>Flammability</b> 0 | <b>Physical Hazard</b> 0 |

#### 6. ACCIDENTAL RELEASE MEASURES

|                                  |   |
|----------------------------------|---|
| <b>Personal Precautions</b>      | Use personal protective equipment. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions.   |
| <b>Environmental precautions</b> | Do not flush into surface water or sanitary sewer system.   |
| <b>Methods for Containment</b>   | Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). |
| <b>Methods for Cleaning Up</b>   | Pick up and transfer to properly labeled containers.  |
| <b>Neutralizing Agent</b>        | Acetic acid, diluted.   |

#### 7. HANDLING AND STORAGE

|                            |  |              |                |                                   |
|----------------------------|--|--------------|----------------|-----------------------------------|
| <b>Handling</b>            | Do not get in eyes, on skin or on clothing. Do not breathe vapor or mist.  |              |                |                                   |
| <b>Storage</b>             | Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Metal containers must be lined. Freezing will affect the physical condition but will not damage the material. Thaw and mix before using. |              |                |                                   |
| <b>Storage Temperature</b> | <b>Minimum</b>   | 36 °F / 2 °C | <b>Maximum</b> | 120 °F / 49 °C                    |
| <b>Storage Conditions</b>  | <b>Indoor</b>  | X            | <b>Outdoor</b> | <b>Heated</b> <b>Refrigerated</b> |

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

|                                       |  |
|---------------------------------------|--|
| <b>Exposure Guidelines</b>            | This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.  |
| <b>Engineering Measures</b>           | Ensure adequate ventilation, especially in confined areas. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. |
| <b>Personal Protective Equipment</b>  |  |
| <b>Eye/Face Protection</b>            | Tightly fitting safety goggles. Face-shield.   |
| <b>Skin Protection</b>                | Wear suitable protective clothing, Impervious gloves.  |
| <b>Respiratory Protection</b>         | In case of inadequate ventilation wear respiratory protection.   |
| <b>General Hygiene Considerations</b> | Ensure that eyewash stations and safety showers are close to the workstation location. Remove and wash contaminated clothing before re-use.  |

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

|                       |                      |                   |             |
|-----------------------|----------------------|-------------------|-------------|
| <b>Physical state</b> | Liquid               | <b>Viscosity</b>  | Non viscous |
| <b>Color</b>          | Yellow - Grass green | <b>Odor</b>       | Mild        |
| <b>Odor Threshold</b> | Not applicable       | <b>Appearance</b> | Transparent |

|                                      |                                   |                                  |                          |
|--------------------------------------|-----------------------------------|----------------------------------|--------------------------|
| <b>pH</b>                            | 12.4                              | <b>Specific Gravity</b>          | 1.05                     |
| <b>Evaporation Rate</b>              | No data available                 | <b>Percent Volatile (Volume)</b> | No data available        |
| <b>VOC Content (%)</b>               | 0                                 | <b>VOC Content (g/L)</b>         | 0                        |
| <b>Vapor pressure</b>                | 16.5 mmHg @ 70°F                  | <b>Vapor Density</b>             | No information available |
| <b>Solubility</b>                    | Completely soluble                | <b>n-Octanol/Water Partition</b> | No data available        |
| <b>Melting Point/Range</b>           | No data available                 | <b>Decomposition Temperature</b> | No data available        |
| <b>Boiling Point/Range</b>           | 210 °F / 99 °C                    | <b>Flammability (solid, gas)</b> | No data available        |
| <b>Flash Point</b>                   | Does not flash                    | <b>Method</b>                    | No data available        |
| <b>Autoignition Temperature</b>      | No information available.         |                                  |                          |
| <b>Flammability Limits in Air %:</b> | Hydrogen, by reaction with metals | <b>Upper: 75 Lower: 4</b>        |                          |

## 10. STABILITY AND REACTIVITY

|   |   |
|---|---|
| <b>Chemical Stability</b>                 | Stable. Hazardous polymerization does not occur.  |
| <b>Conditions to Avoid</b>                | Extremes of temperature and direct sunlight.  |
| <b>Incompatible Products</b>              | Strong acids, Strong oxidizing agents, Strong bases, Alkalis.   |
| <b>Decomposition Temperature</b>          | No data available   |
| <b>Hazardous Decomposition Products</b>   | Carbon oxides, Oxides of phosphorus, Sodium oxides, Contact with specific metals may liberate Hydrogen gas, Nitrogen oxides (NOx), Sulfur oxides. |
| <b>Possibility of Hazardous Reactions</b> | None under normal processing.   |

## 11. TOXICOLOGICAL INFORMATION

Product Information No information available.

The following values are calculated based on chapter 3.1 of the GHS document

|                        |                          |
|------------------------|--------------------------|
| <b>Oral LD50</b>       | No information available |
| <b>Dermal LD50</b>     | No information available |
| <b>Inhalation LC50</b> |                          |
| <b>Gas</b>             | No information available |
| <b>Mist</b>            | No information available |
| <b>Vapor</b>           | No information available |

**Principle Route of Exposure** Skin contact, Eye contact, Inhalation.

**Primary Routes of Entry** Skin contact, Ingestion.

**Acute Effects:**

|                   |   |
|-------------------|---|
| <b>Eyes</b>       | Corrosive to the eyes and may cause severe damage including blindness.  |
| <b>Skin</b>       | Causes skin burns.  |
| <b>Inhalation</b> | Harmful by inhalation. Causes burns.  |
| <b>Ingestion</b>  | If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. |

**Chronic Toxicity** Inhaled corrosive substances can lead to a toxic edema of the lungs.

**Target Organ Effects:** No information available.

**Aggravated Medical Conditions** None known.

Component Information

**Acute Toxicity**

| Chemical name   | Oral LD50  | Dermal LD50   | Inhalation LC50   | Draize Test       | Other             |
|---|--|---|-------------------|-------------------|-------------------|
| Sodium metasilicate<br>6834-92-0                                    | = 1153 mg/kg ( Rat )   | no data available   | No data available | No data available | No data available |
| 2,6,8-Trimethyl-4-nonyloxy<br>polyethylene oxyethanol<br>60828-78-6 | = 5650 mg/kg ( Rat ) =<br>7460 µL/kg ( Rat ) =<br>2100 mg/kg ( Rat ) = 32<br>mL/kg ( Rat ) | = 4780 µL/kg ( Rabbit ) =<br>8480 µL/kg ( Rabbit ) = 2<br>mL/kg ( Rabbit ) = 5660<br>µL/kg ( Rabbit ) | No data available | No data available | No data available |

**Chronic Toxicity** No information available.

**Carcinogenicity** There are no known carcinogenic chemicals in this product.

## 12. ECOLOGICAL INFORMATION

Product Information No information available.

Additional Ecological Information: No information available

Component Information

| Chemical name | Toxicity to Algae | Toxicity to Fish | Microtox | Crustacea | Partition coefficient |
|---------------|-------------------|------------------|----------|-----------|-----------------------|
|               |                   |                  |          |           |                       |



|                     |                           |   |                           |                                   |           |
|---------------------|---------------------------|---|---------------------------|-----------------------------------|-----------|
| Sodium metasilicate | No information available. | LC50 = 210 mg/L Brachydanio rerio<br>96 h | No information available. | 216: 96 h Daphnia magna mg/L EC50 | nt<br>N/A |
|---------------------|---------------------------|---|---------------------------|-----------------------------------|-----------|

**Persistence and Degradability** No information available.  
**Bioaccumulation** No information available.  
**Mobility** No information available.

### 13. DISPOSAL CONSIDERATIONS

**Product Disposal** Dispose of in accordance with local regulations.  
**Container Disposal** Empty containers should be taken for local recycling, recovery, or waste disposal. Do not re-use empty containers.

### 14. TRANSPORT INFORMATION

#### DOT

**Proper Shipping Name** CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.  
**Hazard Class** 8  
**UN-No** UN3266  
**Packing Group** II  
**Description** CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.,(SODIUM METASILICATE PENTAHYDRATE),8, PG PG II

#### TDG

**Proper shipping name** CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.  
**Hazard Class** 8  
**UN-No** UN3266  
**Packing Group** II  
**Description** CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.,(SODIUM METASILICATE PENTAHYDRATE),8, PG PG II

#### ICAO

**UN-No** UN3266  
**Proper Shipping Name** CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.  
**Hazard Class** 8  
**Packing Group** II  
**Shipping Description** CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.,(SODIUM METASILICATE PENTAHYDRATE),8, PG PG II

#### IATA

**UN-No** UN3266  
**Proper Shipping Name** CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.  
**Hazard Class** 8  
**Packing Group** II  
**Shipping Description** CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.,(SODIUM METASILICATE PENTAHYDRATE),8, PG PG II

#### IMDG/IMO

**UN proper shipping name** CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.  
**Hazard Class** 8  
**UN Number** UN3266  
**Packing Group** II  
**Description** CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.,(SODIUM METASILICATE PENTAHYDRATE),8, PG PG II

### 15. REGULATORY INFORMATION

#### Inventories

**TSCA** Complies  
**DSL** Complies  
**U.S. Federal Regulations**

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

| Chemical name | CAS No. | Weight-% | SARA 313 - Threshold Values |
|---------------|---------|----------|-----------------------------|
|---------------|---------|----------|-----------------------------|

|                                  |            |     |     |
|----------------------------------|------------|-----|-----|
| Tripropylene Glycol Methyl Ether | 25498-49-1 | 3-7 | 1.0 |
|----------------------------------|------------|-----|-----|

**SARA 311/312 Hazardous Categorization**

See Section 2

**CERCLA****16. OTHER INFORMATION**

|                            |                           |
|----------------------------|---------------------------|
| <b>Prepared By</b>         | Pamela Starkey            |
| <b>Supersedes Date:</b>    | 02/09/2017                |
| <b>Issuing Date:</b>       | 04/22/2020                |
| <b>Reason for Revision</b> | No information available. |
| <b>Glossary</b>            | No information available. |
| <b>List of References.</b> | No information available. |

**CERTIFIED LABS, DIV. OF NCH CORP.** assumes no responsibility for personal injury or property damage caused by the use, storage, or disposal of the product in a manner not recommended on the product label. Users assume all risks associated with such unrecommended use, storage or disposal of the product. The information provided on this document is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.



# Material Safety Data Sheet

## 1 - Chemical Product and Company Identification

|   |   |
|---|---|
| <b>Manufacturer:</b> Shanghai Wu Di Trading Co., Ltd.<br>(WD-40 Company China)<br><b>Address:</b> Level 4&5 Building 5, 1199 Jidi Rd,<br>Minhang Shanghai<br><b>Post code:</b> 201107<br><b>Telephone:</b> 021-62964040<br><b>Fax:</b> 021-52960140 | <b>Chemical Name:</b> Organic Mixture<br><b>Trade Name:</b> WD-40 Bulk Liquid<br><b>Product Use:</b> Lubricant, Penetrant, Drives Out<br>Moisture, Removes and Protects Surfaces<br>From Corrosion<br><b>MSDS Date Of Preparation:</b> 01/06/12 |
|---|---|

## 2 – Hazards Identification

|  |
|--|
| <b>Emergency Overview:</b><br><b>DANGER!</b> Harmful or fatal if swallowed. Flammable Liquid. If swallowed, may be aspirated and cause lung damage. May cause eye irritation. Avoid eye contact. Use with adequate ventilation. Keep away from heat, sparks and all other sources of ignition.<br><br><b>Symptoms of Overexposure:</b><br><b>Inhalation:</b> High concentrations may cause nasal and respiratory irritation and central nervous system effects such as headache, dizziness and nausea. Intentional abuse may be harmful or fatal.<br><b>Skin Contact:</b> Prolonged and/or repeated contact may produce mild irritation and defatting with possible dermatitis.<br><b>Eye Contact:</b> Contact may be irritating to eyes. May cause redness and tearing.<br><b>Ingestion:</b> This product has low oral toxicity. Swallowing may cause gastrointestinal irritation, nausea, vomiting and diarrhea. This product is an aspiration hazard. If swallowed, can enter the lungs and may cause chemical pneumonitis, severe lung damage and death.<br><b>Chronic Effects:</b> None expected.<br><b>Medical Conditions Aggravated by Exposure:</b> Preexisting eye, skin and respiratory conditions may be aggravated by exposure.<br><br><b>Suspected Cancer Agent:</b><br>Yes    No X |
|--|

## 3 - Composition/Information on Ingredients

| Ingredient                    | CAS #                                  | Weight Percent |
|-------------------------------|--|----------------|
| Aliphatic Hydrocarbon         | 64742-47-8                             | <70            |
| Petroleum Base Oil            | 64742-53-6<br>64742-56-9<br>64742-65-0 | <25            |
| Non-Hazardous Rust Inhibitors | Mixture                                | <10            |
| Non-Hazardous Lubricants      | Mixture                                | <10            |
| Fragrance                     | Mixture                                | <1             |

See Section 8 for Exposure Limits

## 4 – First Aid Measures

|  |
|--|
| <b>Ingestion (Swallowed):</b> Aspiration Hazard. DO NOT induce vomiting. Call physician, poison control center or the WD-40 Safety Hotline at 1-888-324-7596 immediately.<br><b>Eye Contact:</b> Flush thoroughly with water. Remove contact lenses if present after the first 5 minutes and continue flushing for several more minutes. Get medical attention if irritation persists. |
|--|

**Skin Contact:** Wash with soap and water. If irritation develops and persists, get medical attention.  
**Inhalation (Breathing):** If irritation is experienced, move to fresh air. Get medical attention if irritation or other symptoms develop and persist.

**5 – Fire Fighting Measures**

**Extinguishing Media:** Use water fog, dry chemical, carbon dioxide or foam. Do not use water jet or flooding amounts of water. Burning product will float on the surface and spread fire.  
**Special Fire Fighting Procedures:** Firefighters should always wear positive pressure self-contained breathing apparatus and full protective clothing. Cool fire-exposed containers with water.  
**Unusual Fire and Explosion Hazards:** Flammable liquid and vapor. Vapors are heavier than air and may travel along surfaces to remote ignition sources and flash back.

**6 – Accidental Release Measures**

Wear appropriate protective clothing (see Section 8). Eliminate all sources of ignition and ventilate area. Contain and collect liquid with an inert absorbent and place in a container for disposal. Clean spill area thoroughly. Report spills to authorities as required.

**7 – Handling and Storage**

**Handling:** Avoid contact with eyes. Avoid prolonged contact with skin. Avoid breathing vapors or aerosols. Use with adequate ventilation. Keep away from heat, sparks, hot surfaces and open flames. Wash thoroughly with soap and water after handling. Keep containers closed when not in use. Keep out of the reach of children.  
**Storage:** Store in a cool, well-ventilated area, away from incompatible materials. NFPA 30 Class II Liquid.

**8 – Exposure Controls/Personal Protection**

| Chemical                      | Occupational Exposure Limits                              |
|-------------------------------|---|
| Aliphatic Hydrocarbon         | 1200 mg/m3 TWA (manufacturer recommended)                 |
| Petroleum Base Oil            | 5 mg/m3 (inhalable) TWA ACGIH TLV<br>5 mg/m3 TWA OSHA PEL |
| Non-Hazardous Rust Inhibitors | None Established  |
| Non-Hazardous Lubricant       | None Established  |
| Fragrance                     | None Established  |

**The Following Controls are Recommended for Normal Consumer Use of this Product**

**Engineering Controls:** Use in a well-ventilated area.  
**Personal Protection:**  
**Eye Protection:** Avoid eye contact. Safety glasses or goggles recommended.  
**Skin Protection:** Avoid prolonged skin contact. Chemical resistant gloves recommended for operations where skin contact is likely.  
**Respiratory Protection:** None needed for normal use with adequate ventilation.

**For Bulk Processing or Workplace Use the Following Controls are Recommended**

**Engineering Controls:** Use adequate general and local exhaust ventilation to maintain exposure levels below that occupational exposure limits.  
**Personal Protection:**  
**Eye Protection:** Safety goggles recommended where eye contact is possible.  
**Skin Protection:** Wear chemical resistant gloves.  
**Respiratory Protection:** None required if ventilation is adequate. If the occupational exposure limits are exceeded, wear a NIOSH approved respirator. Respirator selection and use should be based on contaminant type, form and concentration. Follow OSHA 1910.134, ANSI Z88.2 and good Industrial Hygiene practice.  
**Work/Hygiene Practices:** Wash with soap and water after handling.

## 9 – Physical and Chemical Properties

|  |                         |                                     |                              |
|--|-------------------------|-------------------------------------|------------------------------|
| Boiling Point:                         | 300°F (150°C)           | Specific Gravity:                   | 0.79 – 0.82 @ 25°C           |
| Solubility in Water:                   | Insoluble               | pH:                                 | Not Applicable               |
| Vapor Pressure:                        | 0.27kPa @20°C (68°F)    | Vapor Density:                      | Greater than 1               |
| Percent Volatile:                      | 67%                     | VOC:                                | 67%                          |
| Coefficient of Water/Oil Distribution: | Not Determined          | Appearance/Odor                     | Light amber liquid/mild odor |
| Flash Point:                           | 113°F (45°C) Closed cup | Flammable Limits: (Solvent Portion) | LEL: 0.6% UEL: 8.0%          |

## 10 – Stability and Reactivity

**Stability:** Stable

**Hazardous Polymerization:** Will not occur.

**Conditions to Avoid:** Avoid heat, sparks, flames and other sources of ignition.

**Incompatibilities:** Strong oxidizing agents.

**Hazardous Decomposition Products:** Carbon monoxide and carbon dioxide.

## 11 – Toxicological Information

The oral toxicity of this product is estimated to be greater than 5,000 mg/kg based on an assessment of the ingredients. This product is not classified as toxic by established criteria. It is an aspiration hazard. None of the components of this product is listed as a carcinogen or suspected carcinogen or is considered a reproductive hazard.

## 12 – Ecological Information

No data is currently available.

## 13 - Disposal Considerations

If this product becomes a waste, it would be expected to meet the criteria of a RCRA ignitable hazardous waste (D001). However, it is the responsibility of the generator to determine at the time of disposal the proper classification and method of disposal. Dispose in accordance with federal, state, and local regulations.

## 14 – Transportation Information

DOT Surface Shipping Description: Excepted from Hazmat (49CFR 173.150 (F)) in non-bulk packagings. Bulk Packagings: NA1993, Combustible Liquid, n.o.s. (contains Petroleum Distillates), PG III  
IMDG Shipping Description: UN1268, Petroleum Distillates, n.o.s. 3, PG III

## 15 – Regulatory Information

**China Regulations on the Control over Safety of Dangerous Chemicals:** This product matches this regulation. All ingredients in this product has listed in IECSC( Inventory of Existing Chemical Substances in China 2010)

## 16 – Other Information:

**HMIS Hazard Rating:**

**Health – 1 (slight hazard), Fire Hazard – 2 (moderate hazard), Reactivity – 0 (minimal hazard)**

SIGNATURE:  TITLE: Director of Global Consumer Relations and Regulatory Affairs

REVISION DATE: January 2012

SUPERSEDES: June 2010




# Safety Data Sheet

## 1 - Chemical Product and Company Identification

|  |  |
|--|--|
| <b>Manufacturer:</b> WD-40 Company<br><b>Address:</b> 9715 Businesspark Ave<br>San Diego, CA , USA<br><b>Post code:</b> 92131<br><b>Telephone:</b> +1-800-448-9340<br>+1-858-251-5600<br><br><b>24 Hour Emergency Phone Number:</b><br>1-888-324-7596 (PROSAR)<br><b>Chemical Spills:</b><br>1-800-424-9300 (Chemtrec)<br>1-703-527-3887 (International Calls) | <b>Chemical Name:</b> Organic Mixture<br><br><b>Trade Name:</b> WD-40 Bulk Liquid<br><br><b>Product Use:</b> Lubricant, Penetrant, Drives Out Moisture, Removes and Protects Surfaces From Corrosion<br><br><b>SDS Date Of Preparation:</b> April 12, 2018 |
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## 2 – Hazards Identification

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|---|
| <b>GHS Classification:</b><br>Flammable Liquid Category 4<br>Aspiration Toxicity Category 1<br><br><br><br><b>DANGER!</b><br>H227 Combustible liquid<br>H304 May be fatal if swallowed and enters airways.<br><b>Prevention</b><br>P210 Keep away from flames and hot surfaces. No smoking.<br>P280 Wear protective gloves.<br><b>Response</b><br>P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor.<br>P331 Do NOT induce vomiting.<br>P370+P378 In case of fire: Use water fog, dry chemical, carbon dioxide or foam to extinguish.<br><b>Storage</b><br>P403+P235 Store in a well-ventilated place. Keep cool.<br>P405 Store locked up.<br><b>Disposal</b><br>P501 Dispose of contents and container in accordance with local and national regulations. |
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## 3 - Composition/Information on Ingredients

| Ingredient                                  | CAS #      | Weight Percent | GHS Classification  |
|---|------------|----------------|---|
| Distillates (petroleum), hydrotreated light | 64742-47-8 | 50-70          | Flammable Liquid Category 4<br>Aspiration Toxicity Category 1 |
| Non-Hazardous Ingredients                   | Mixture    | 30-50          | Not Hazardous   |

#### 4 – First Aid Measures

**Ingestion (Swallowed):** Aspiration Hazard. DO NOT induce vomiting. Call physician, poison control center or the WD-40 Safety Hotline at 1-888-324-7596 immediately. 24 hours Hotline of Emergency Service for Chemical Incident in China: 0532-83889090.

**Eye Contact:** Flush thoroughly with water. Remove contact lenses if present after the first 5 minutes and continue flushing for several more minutes. Get medical attention if irritation persists.

**Skin Contact:** Wash with soap and water. If irritation develops and persists, get medical attention.

**Inhalation (Breathing):** If irritation is experienced, move to fresh air. Get medical attention if irritation or other symptoms develop and persist.

**Most Important Symptoms (acute and delayed):** May cause eye irritation. Skin contact may cause drying of the skin. Inhalation of mists may cause coughing, headache and dizziness. Harmful or fatal if swallowed. If swallowed, may be aspirated and cause lung damage.

**Indication of Immediate Medical Attention or Special Treatment:** Immediate medical attention is required for ingestion.

#### 5 – Fire Fighting Measures

**Extinguishing Media:** Use water fog, dry chemical, carbon dioxide or foam. Do not use water jet or flooding amounts of water. Burning product will float on the surface and spread fire.

**Special Fire Fighting Procedures:** Firefighters should always wear positive pressure self-contained breathing apparatus and full protective clothing. Cool fire-exposed containers with water.

**Unusual Fire and Explosion Hazards:** Combustible liquid. Vapors are heavier than air and may travel along surfaces to remote ignition sources and flash back. A vapor and air mixture can create an explosion hazard in confined spaces.

#### 6 – Accidental Release Measures

**Personal Precautions, Protective Equipment and Emergency Procedures:** Eliminate all sources of ignition and ventilate area. Wear appropriate protective clothing (see Section 8).

**Environmental Precautions:** Report spills to authorities as required.

**Methods and Materials for Containment/Cleanup:** Contain and collect liquid with an inert absorbent and place in a container for disposal. Clean spill area thoroughly. Report spills to authorities as required.

#### 7 – Handling and Storage

**Precautions for Safe Handling:** Avoid contact with eyes. Avoid prolonged contact with skin. Avoid breathing vapors or mists. Use with adequate ventilation. Keep away from heat, sparks, hot surfaces and open flames. Wash thoroughly with soap and water after handling. Keep containers closed when not in use. Keep out of the reach of children.

**Conditions for Safe Storage, including any incompatibilities:** Store in a cool, well-ventilated area, away from incompatible materials. NFPA 30 Class IIIA Liquid.

#### 8 – Exposure Controls/Personal Protection

| Chemical                                    | Occupational Exposure Limits                          |
|---|---|
| Distillates (petroleum), hydrotreated light | 1200 mg/m <sup>3</sup> TWA (manufacturer recommended) |
| Non-Hazardous Ingredients                   | None Established                                      |

#### The Following Controls are Recommended for Normal Consumer Use of this Product

**Engineering Controls:** Use in a well-ventilated area.

**Personal Protection:**

**Eye Protection:** Avoid eye contact. Safety glasses or goggles recommended.

**Skin Protection:** Avoid prolonged skin contact. Chemical resistant gloves recommended for operations where skin contact is likely.

**Respiratory Protection:** None needed for normal use with adequate ventilation.

#### For Bulk Processing or Workplace Use the Following Controls are Recommended

**Engineering Controls:** Use adequate general and local exhaust ventilation to maintain exposure levels below that occupational exposure limits.

**Personal Protection:****Eye Protection:** Safety goggles recommended where eye contact is possible.**Skin Protection:** Wear chemical resistant gloves.**Respiratory Protection:** None required if ventilation is adequate. If the occupational exposure limits are exceeded, wear a NIOSH approved respirator. Respirator selection and use should be based on contaminant type, form and concentration. Follow OSHA 1910.134, ANSI Z88.2 and good Industrial Hygiene practice.**Work/Hygiene Practices:** Wash with soap and water after handling.**9 – Physical and Chemical Properties**

|                            |                     |   |   |
|----------------------------|---------------------|---|---|
| Appearance:                | Light amber liquid  | Flammable Limits:                       | LEL: 0.6% UEL: 5.0% (Distillates (petroleum), hydrotreated light) |
| Odor:                      | Mild petroleum odor | Vapor Pressure:                         | 0.023 kPa @ 20°C  |
| Odor Threshold:            | Not established     | Vapor Density:                          | 6.2   |
| pH:                        | Not established     | Relative Density:                       | Not established   |
| Melting/Freezing Point:    | Not established     | Solubility(ies):                        | Insoluble in water  |
| Boiling Point/Range:       | 147-663°C           | Partition Coefficient; n-octanol/water: | Not established   |
| Flash Point:               | 175°F (79.5°C)      | Auto ignition Temperature:              | 239°C   |
| Evaporation Rate:          | Not established     | Decomposition Temperature:              | Not established   |
| Flammability (solid, gas): | Not applicable      | Viscosity:                              | 3.72 mm <sup>2</sup> /sec@40°C                                    |
| VOC:                       | 65%                 | Pour Point:                             | -42°C   |

**10 – Stability and Reactivity****Reactivity:** Not reactive under normal conditions**Chemical Stability:** Stable**Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.**Conditions to Avoid:** Avoid heat, sparks, flames and other sources of ignition.**Incompatible Materials:** Strong oxidizing agents.**Hazardous Decomposition Products:** Carbon monoxide and carbon dioxide.**11 – Toxicological Information****Symptoms of Overexposure:****Inhalation:** High concentrations may cause nasal and respiratory irritation and central nervous system effects such as headache, dizziness and nausea. Intentional abuse may be harmful or fatal.**Skin Contact:** Prolonged and/or repeated contact may produce mild irritation and defatting with possible dermatitis.**Eye Contact:** Contact may be irritating to eyes. May cause redness and tearing.**Ingestion:** This product has low oral toxicity. Swallowing may cause gastrointestinal irritation, nausea, vomiting and diarrhea. This product is an aspiration hazard. If swallowed, can enter the lungs and may cause chemical pneumonitis, severe lung damage and death.**Chronic Effects:** None expected.**Carcinogen Status:** None of the components are listed as a carcinogen or suspect carcinogen by IARC, NTP, ACGIH or OSHA.**Reproductive Toxicity:** None of the components is considered a reproductive hazard.**Numerical Measures of Toxicity:**

Acute Toxicity Estimates: Oral &gt; 5,000 mg/kg; Dermal &gt;2,000 mg/kg based on an assessment of the ingredients. This product is not classified as toxic by established criteria. It is an aspiration hazard.

**12 – Ecological Information****Ecotoxicity:** No specific aquatic toxicity data is currently available; however components of this product are not expected to be harmful to aquatic organisms. If applied to leaves may kill grasses and small plants by



interfering with respiration and transpiration. This product is not toxic to fish but may coat gill structures resulting in suffocation.

**Persistence and Degradability:** Components are expected to be biodegradable.

**Bioaccumulative Potential:** Bioaccumulation is not expected based on an assessment of the ingredients.

**Mobility in Soil:** No data available.

**Other Adverse Effects:** None Known

### 13 - Disposal Considerations

It is the responsibility of the generator to determine at the time of disposal the proper classification and method of disposal. Dispose in accordance with federal, state, and local regulations.

### 14 – Transportation Information

IMDG Shipping Description: Not Regulated

ICAO Shipping Description: Not Regulated

NOTE: WD-40 Company does not test containers to assure that they can withstand the pressure change without leakage when transported by air. We do not recommend that our products be transported by air unless a specific review is conducted.

### 15 – Regulatory Information

**China Regulations on the Control over Safety of Dangerous Chemicals:** All ingredients in this product are listed in IECSC (Inventory of Existing Chemical Substances in China 2010).

### 16 – Other Information

**Indication of changes;** version 1.0

**Training instructions:** Not applicable

**Further information:** The information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

**Notice to Reader:** Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

Revision Date: April 12, 2018

Supersedes: December 27, 2017

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