All

ΑII

GMI - Quality

Safety Data Sheet Index

Binder: GMI - Quality - All

| Product Name | Manufacturer Name | Part Number | Version Date | Page |
|--|-----------------------------------|-----------------|--------------|------|
| 587 | John Tillman Co. | | 08/25/2015 | 3 |
| ABC Dry Chemical Fire Extinguishant | Buckeye Fire Equipment Company | | 08/05/2019 | 11 |
| ABC DRY CHEMICAL FIRE EXTINGUISHANT | BUCKEYE FIRE EQUIPMENT COMPANY | | 04/01/2015 | 16 |
| ABC Dry Chemical Fire Extinguishant | AMEREX CORPORATION | CH555, F13, F11 | 03/13/2018 | 25 |
| ANSUL ABC Multipurpose Dry Chemical Agent - Stored Pressure System | Tyco Fire Protection Products | | 02/13/2019 | 37 |
| CIRCLESAFE 850A | CIRCLE SYSTEMS, INC. | | 01/31/2019 | 46 |
| MAGNAGLO 14A | MAGNAFLUX a Div of ITW LTD | | 01/29/2016 | 53 |
| SKC-S Aerosol | MAGNAFLUX | | 08/23/2017 | 63 |
| SKD-S2 Aerosol | MAGNAFLUX a Div of ITW LTD | | 03/18/2016 | 69 |
| SKD-S2 Aerosol | MAGNAFLUX a Div of ITW LTD | | 03/18/2016 | 75 |
| SPOTCHECK SKL-SP2 - aerosol | MAGNAFLUX a Div of ITW LTD | | 10/31/2018 | 81 |



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 useSee Technical Data Sheet.Application MethodSee 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.



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]:



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 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.

4. First aid measures

4.1. Description of first aid measures

General In all cases of doubt, or when symptoms persist, seek medical attention.

Never give anything by mouth to an unconscious person.

Inhalation Drink water to clear throat, blow nose to evacuate fibers.

Eyes Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and

seek medical attention.

Skin Remove contaminated clothing. Wash skin thoroughly with soap and water or use a

recognized skin cleanser.

Ingestion If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

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

Overview Exposure with the product may cause skin, eye, and respiratory tract irritation. See section 2

for further details.

Eyes May cause eye irritation.

5. Fire-fighting measures

5.1. Extinguishing media

Water, carbon dioxide, or dry chemical.

^{*}The full texts of the phrases are shown in Section 16.



SDS Revision Date:

08/25/2015

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/m3 (as nuisance dust)5 mg/m3 (respirable fraction) |
| | | ACGIH | 10 mg/m3 (as nuisance dust)5 mg/m3 (respirable fraction) |
| | | NIOSH | No Established Limit |



SDS Revision Date: 08/25/2015

| 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.

using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

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

9. Physical and chemical properties

Appearance Plain Weave Heavy Weight Fiberglass Fabric

Odor No smell

Odor threshold

PH

Not Measured

Melting point / freezing point

Initial boiling point and boiling range

Flash Point

Evaporation rate (Ether = 1)

Flammability (solid, gas)

Not determined

Not Measured

Not Measured

Not Measured

Not Applicable

Upper/lower flammability or explosive limits Lower Explosive Limit: Not Measured

Upper Explosive Limit: Not Measured

Vapor pressure (Pa)Not MeasuredVapor DensityNot Measured

Specific Gravity 2.5
Solubility in Water None

Partition coefficient n-octanol/water (Log Kow)Not MeasuredAuto-ignition temperatureNot MeasuredDecomposition temperatureNot MeasuredViscosity (cSt)Not Measured



SDS Revision Date:

08/25/2015

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, | Skin LD50, | Inhalation Vapor | Inhalation Dust | Inhalation Gas |
|-------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | mg/kg | mg/kg | LC50, mg/L/4hr | LC50, mg/L/4hr | LC50, ppm |
| Fibrous glass, glass - (65997-17-3) | 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 |



SDS Revision Date:

08/25/2015

| 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, | 48 hr EC50 crustacea, | ErC50 algae, |
|-------------------------------------|------------------|-----------------------|---------------|
| | mg/l | mg/l | 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.

DOT (Domestic Surface Transportation)

IMO / IMDG (Ocean Transportation)

ICAO/IATA

14.1. UN number

Not Applicable

Not Regulated

Not Regulated



SDS Revision Date: 08/25/2015

14.2. UN proper shipping Not Regulated Not Regulated Not Regulated

name

14.3. Transport hazard DOT Hazard Class: Not IMDG: Not Applicable Air Class: Not Applicable

class(es) Applicable Sub Class: Not Applicable

14.4. Packing group Not Applicable Not Applicable Not Applicable

14.5. Environmental hazards

IMDG Marine Pollutant: No

14.6. Special precautions for user

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 All components of this material are either listed or exempt from listing on the TSCA

Control Act (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.



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 ABC DRY CHEMICAL

SECTION I. Chemical Product and Company Identification

Product Name: ABC Dry Chemical Fire Extinguishant

(Fire Extinguishing Agent, Non-pressurized and Pressurized)

Synonym: Multi-Purpose Dry Chemical
Manufacturer: Buckeye Fire Equipment Company

PO Box 428

Kings Mountain, NC 28086

Telephone: 704.739.7415

Web Address: www.buckeyefire.com
Email Address: bfec@buckeyef.com

Recommended Use: Fire suppression, not for human or animal drug use.

Emergency: CHEMTREC 1.800.424.9300

Revision Date: 08/05//2019

SECTION II. Hazard Identification

Note: This SDS covers both pressurized and non-pressurized containers of the product.

GHS – Classification (Pressurized):

Hazard Classification: Gas Under Pressure-Compressed Gas

GHS Label Elements:

Hazard Symbols:

Signal Word: WARNING

Hazard Statements: Contents Under Pressure: may explode if heated

Prescutionary Statements: P251 Pressurized container; do not pierce or burn, even after use.

GHS – Classification (Non-pressurized):

Eye Irritation: Category 2B Skin Irritation: Category 5 Acute Toxicity-Inhalation: Category 5

GHS Label Elements:



Hazard Symbols:

Signal Word: WARNING

Hazard Statements:

H313 May be harmful in contact with skin.

H320 Causes eye irritation

H333 May be harmful if inhaled.

Precautionary Statements:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P234 Keep in original container.

P251 Pressurized container; do not pierce or burn, even after use

P261 Avoid breathing dust

P264 Wash hands and face thoroughly after handling

P270 Do not eat, drink, or smoke when using this product

P281 Use personal protective equipment as required

SAFETY DATA SHEET ABC DRY CHEMICAL

| P285 | In case of inadequate ventilation, wear respiratory protection |
|--------------|---|
| P301+322+331 | If swallowed, drink 2-3 glasses of water and do not induce vomiting |
| 302+352 | If on skin, wash with soap and water |
| 304+313+341 | If inhaled, and if distress occurs, remove victim to fresh air and keep at rest in a position comfortable |
| | for breathing. Seek medical advice/attention. |
| 305+351+338 | If in eyes, rinse cautiously with water for several minutes. Remove contact lenses if present and east |
| | to do and continue to rinse. |
| 337+313 | If eye irritation persists, get medical advice/attention. |
| P401+402+403 | Store in original container or extinguisher in a dry, well ventilated place. |

SECTION III. Composition/Information on Ingredients

This product is a mixture.

| Chemical Name | Weight %* | <u>CAS #</u> |
|------------------------------------|-----------|-------------------------|
| Monoammonium phosphate | 85 | 7722-76-1 |
| Barium Sulfate | 8 | 7727-43-7 |
| Mica | < 3 | 12001-26-2 |
| Amorphous Silica (non-crystalline) | < 3 | 112926-00-8 (7631-86-9) |
| Stannous octoate | < .3 | 301-10-0 |
| Silicone | < .1 | 63148-57-2 |
| Pigment | <.1 | 6358-31-2 |

Note: Pressurized product uses nitrogen as the expellant 7727-37-9

SECTION IV. First Aid Measures

Eye Exposure- Flush eyes with water until pain-free. If irritation develops or persists, seek medical attention.

Skin Exposure- Wash with plenty of soap and water. If irritation develops or persists, seek medical attention.

Inhalation- Move victim to fresh air. If irritation develops or persists, seek medical attention.

Ingestion- If victim is conscious and alert, give 2-3 glasses of water to drink. Do not induce vomiting. If vomiting occurs and the victim is conscious, give additional water to further dilute the chemical. Prevent aspiration of swallowed product by laying victim on side with head lower than their waist. Seek medical attention. Do not leave victim unattended.

Medical Conditions Possibly Aggravated by Exposure- Inhalation of the product may aggravate existing chronic respiratory conditions such as asthma, emphysema, or bronchitis. Contact with the skin may aggravate an existing skin disease. Chronic overexposure may cause pneumoconiosis ("Dusty Lung" disease).

SECTION V. Firefighting Measures

Extinguishing Media: N/A. This product is an extinguishing agent. It is nonflammable and noncombustible.

Special Firefighting Procedures: N/A

Unusual Fire and Explosion Hazards: This product may decompose in fire and release oxides of carbon, potassium, and nitrogen (Refer to Section X).

Sensitivity to Mechanical Impact or Static Discharge: None

SECTION VI. Accidental Release Measures

In case of accidental release, use the appropriate respiratory protection. Clean up the product using a vacuum or wet sweep and shovel to minimize the generation of dust. Bag or drum the product for disposal. If the product is used and/or contaminated, use personal protective equipment and containment means that are appropriate for the composition of the mixture. Product should be prevented from entering waterways.

^{* %} is rounded to the nearest appropriate number. Values are not to be considered product specifications

SAFETY DATA SHEET ABC DRY CHEMICAL

SECTION VII. Handling and Storage

Avoid eye, respiratory, and skin exposure. Use the appropriate personal protective equipment when handling. Wash thoroughly after handling (Refer to Section VIII). Product should be stored in its original container or extinguisher. When the product is contained under pressure (e.g., an extinguisher), inspect the container for rust or damage that may compromise the container integrity. Do not store the product in high humidity and do not mix with other extinguishing agents, particularly potassium bicarbonate-based agents.

SECTION VIII. Exposure Controls and Personal Protection

Exposure Guidelines:

Pigment

OSHA PEL ACGIH TLV

Monoammonium phosphate Particulates Not Otherwise Classified Particulates Not Otherwise Classified
Total Dust-15 mg/m³ Total Dust-10 mg/m³

Respirable Fraction- 5 mg/m³ Respirable Fraction- 3 mg/m³

Barium sulfate Particulates Not Otherwise Classified Particulates Not Otherwise Classified

Total Dust- 15 mg/m³ Total Dust- 10 mg/m³ Respirable Fraction- 5 mg/m³ Respirable Fraction- 3 mg/m³

Not Regulated

Not Regulated

During the use of this product on fires, exhaust gases and products of incomplete combustion are the main respiratory hazards. In the manufacture of this product, employers and employees must use their collective judgment in determining the on-the-job settings where the use of a dust mask or respirator is prudent. The need for respiratory protection is not likely for short-term use

Respiratory Protection: Use an N-95 dust mask for limited exposures and use air-purifying respirators with high efficiency particulate air filters (HEPA filters) for prolonged exposures.

Eye Protection: Wear chemical goggles or full-face air-purifying respirator.

Skin Protection: Use nitrile, latex, or similar gloves and coveralls. Good personal hygiene practices are essential. After handling the product, avoid food, tobacco products, or other means of transferring the product from hand to mouth until after thoroughly washing.

SECTION IX. Physical and Chemical Properties

Chemical Agent

Appearance and Odor: Light yellow fine powder that is odorless.

Apparent Density: 0.82

in well-ventilated areas.

Solubility: The product is coated with water repellant silicone. Not immediately soluble in water.

pH: Approximately 4 -5 Flash Point: N/A Flammability: N/A Vapor Pressure: N/A Boiling Point: N/A

Explosive or Oxidizing Properties: None

Expellant- Nitrogen

Appearance and Odor: Colorless and odorless. Vapor Pressure: N/A Specific Gravity: 0.075 lb./ft³@, 70°F as vapor Boiling Point: -321°F

Solubility: N/A Explosive or Oxidizing Properties: None

pH: N/A

Flash Point: Nonflammable Flammability: Nonflammable

SAFETY DATA SHEET ABC DRY CHEMICAL

SECTION X. Stability and Reactivity

Reactivity: Pressurized containers may rupture or explode if exposed to high heat

Stability: Stable

Incompatibles: Magnesium, strong oxidizers such as calcium hypochlorite (pool chlorine), strong alkalis, and isocyanic acids. *Decomposition Products*: This product may decompose in fire and release carbon monoxide, carbon dioxide, and sulfur dioxide.

Oxides of phosphorous and ammonia have been reported.

Hazardous Polymerization: Will not occur

Hazardous Reactions: None

SECTION XI. Toxicological Information

Acute Toxicity: Monoammonium phosphate LD50 (rat): > 1000mg/kg body weight.

Target organs in humans: respiratory system, eyes, and skin. This product is an irritant to epithelial tissue and

may aggravate dermatitis. No indication that the product causes sensitization.

Chronic Toxicity: Pneumoconiosis, or "Dusty Lung" disease, may result from chronic exposure to any dust.

Reproductive Toxicity: This product is not known to have any reproductive effects.

Nitrogen: Simple asphyxiant. Exposure at high concentrations can cause suffocation by reducing the available oxygen.

SECTION XII. Ecological Information

Ecotoxicity: Negative effects are unknown. Provides nutrient nitrogen and phosphorous to plant life.

Degradability: Degrades rapidly in wet or humid environment.

Bioaccumulation: Unknown extent.

Mobility in Soil: Water-soluble. May leech into groundwater.

SECTION XIII. Disposal Consideration

This product is not a RCRA characteristically hazardous or listed hazardous waste. Dispose of according to state or local laws, which may be more restrictive than federal regulations. Be aware that product used on a fire may be altered or contaminated and thereby require different disposal considerations.

SECTION XIV. Transportation Information

This product is not defined as a hazardous material under U.S. Department of Transportation 49 CFR 172, or by Transport Canada "Transportation of Dangerous Goods" regulations.

Please Note: Although this material is not considered hazardous, when contained in a stored pressure fire extinguisher pressurized with a nonflammable gas, the extinguisher itself is considered a hazardous material by the U.S. Department of Transportation (USDOT) and Transport Canada (TC). The proper shipping name shall be Fire Extinguisher and the UN Identification Number is UN 1044. The USDOT hazard class is Limited Quantity when pressurized to less than 241 psig and when shipped via highway or rail. For shipment by Air or Water consult the current IATA or IMDG Regulations respectively.

SAFETY DATA SHEET ABC DRY CHEMICAL

SECTION XV. Regulatory Information

International Inventory Status: All ingredients are on the following inventories

| <u>Country</u> | <u>Agency</u> | <u>Country</u> | <u>Agency</u> |
|----------------|---------------|----------------|---------------|
| U.S.A. | TSCA | Australia | AICS |
| Canada | DSL | Japan | MITI |
| Europe | EINECS/ELINCS | South Korea | KECL |

European Risk and Safety Phrases:

| EU Classific | cation- | Н | Iarmful | |
|--------------|---------|---|---------|--|
| EU Classific | cation- | h | larmful | |

R Phrases- 22 Harmful if swallowed

36/37/38 Irritating to eyes, respiratory system, and skin.

S Phrases- 26 In case of contact with eyes, rinse immediately with plenty of water and seek

medical advice

36 Wear suitable protective clothing

U.S. Federal Regulatory Information:

Non-pressurized; None of the chemicals in this product are under SARA reporting requirements or have SARA

Threshold Planning Quantities or CERCLA Reportable Quantities or are regulated under TSCA 8(d).

Pressurized: SARA Title III Section 311/312 Categorization is Pressure Hazard

State Regulatory Information:

Chemicals in this product are covered under the specific State regulations noted:

Alaska Designated Toxic and Hazardous Substances- None

California Permissible Exposure Limits for Chemical Contaminants- None

Florida Substance list- Mica dust Pennsylvania Hazardous Substance List- None Toxic Substance List- No Rhode Island Hazardous Substance List- Mica dust Illinois Section 302/303 List- None Hazardous Substance List- No Kansas Texas Massachusetts Substance list- Mica dust West Virginia Hazardous Substance List- None Minnesota List of Hazardous Substances- None Wisconsin Toxic and Hazardous Substances- None

Missouri Employer Information/Toxic Substance List- None
New Jersey Right to Know Hazardous Substance List- None

North Dakota List of Hazardous Chemicals, Reportable Quantities- None

California Proposition 65- No component is listed on the California Proposition 65 List

SECTION XVI. Other Information

This Safety Data Sheet prepared in accordance with OSHA's Hazard Communication Standard (29 CFR 1910.1200) and the Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

HMIS RATINGS:

Health 1 Flammability 0 Reactivity 0

Personal Protective Equipment: use N-95 dust mask (See Section 8)

WHMIS (Canadian Workplace Hazardous Materials Identification)

D2B- May irritate eyes, mucous membranes, and/or skin

Revised on 7/24/19: Page 1, Section II GHS-classification (Non-pressurized) changed (Class) to (Category) Skin Irritation: Class 3 to Category 5, and Inhalations from Class 5 to Category 5. Revised 8/5/19 (Section II) to add "Acute Toxicity" to Inhalation: Category 5

The information contained herein is given in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is hereby made.



X Close this window

Common Name: ABC DRY CHEMICAL FIRE EXTINGUISHANT

Manufacturer: BUCKEYE FIRE EQUIPMENT

SDS Revision Date: 4/1/2015 SDS Format: GHS-US

Grainger Item Number(s): 2LBP1, 31CA37, 35WT05, 35WT06, 35WT07, 35WT08, 35WT09, 35WT10, 35WT11, 35WT41, 35WT42,

35WT43, 35WT44, 3GRW5, 3GRW6, 3GRW7, 3GRW8, 3GRY3, 3GRY4, 3GRY5, 3GRY6, 3GRY7, 3GRY8,

3GRZ4, 44YZ28, 44YZ29, 44YZ30, 44YZ31, 44YZ33, 44YZ35

Manufacturer Model Number(s):

SDS Table of Contents

Click the desired link below to jump directly to that section in the SDS.

SECTION I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

SECTION II. HAZARD IDENTIFICATION

SECTION III. COMPOSITION/INFORMATION ON INGREDIENTS

SECTION IV. FIRST AID MEASURES

SECTION V. FIREFIGHTING MEASURES

SECTION VI. ACCIDENTAL RELEASE MEASURES

SECTION VII. HANDLING AND STORAGE

SECTION VIII. EXPOSURE CONTROLS AND PERSONAL PROTECTION

SECTION IX. PHYSICAL AND CHEMICAL PROPERTIES

SECTION X. STABILITY AND REACTIVITY

SECTION XI. TOXICOLOGICAL INFORMATION

SECTION XII. ECOLOGICAL INFORMATION

SECTION XIII. DISPOSAL CONSIDERATION

SECTION XIV. TRANSPORTATION INFORMATION

SECTION XV. REGULATORY INFORMATION

SECTION XVI. OTHER INFORMATION

SAFETY DATA SHEET

ABC DRY CHEMICAL

SECTION I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

A top

SDS

PRODUCT NAME: ABC DRY CHEMICAL FIRE EXTINGUISHANT

SYNONYM: MULTI-PURPOSE DRY CHEMICAL

MANUFACTURER:

BUCKEYE FIRE EQUIPMENT COMPANY

110 KINGS ROAD

KINGS MOUNTAIN, NC 28086

TELEPHONE: 704.739.7415

WEB ADDRESS: WWW.BUCKEYEFIRE.COM

EMAIL ADDRESS: BFEC@BUCKEYEF.COM

16

RECOMMENDED USE: FIRE SUPPRESSION, NOT FOR HUMAN OR ANIMAL DRUG USE.

EMERGENCY:

CHEMTREC: 1.800.424.9300

REVISION DATE: 04/2015

SECTION II. HAZARD IDENTIFICATION

A top

GHS - CLASSIFICATION: EYE IRRITATION: CLASS 2B SKIN IRRITATION: CLASS 3 INHALATION: CLASS 5

GHS LABEL ELEMENTS:

HAZARD SYMBOLS: EXCLAMATION MARK

SIGNAL WORD: WARNING

HAZARD STATEMENTS:

H313: MAY BE HARMFUL IN CONTACT WITH SKIN.

H320: CAUSES EYE IRRITATION

H333: MAY BE HARMFUL IF INHALED.

PRECAUTIONARY STATEMENTS:

P101:

IF MEDICAL ADVICE IS NEEDED, HAVE PRODUCT CONTAINER OR LABEL AT HAND.

P102: KEEP OUT OF REACH OF CHILDREN.

P234: KEEP IN ORIGINAL CONTAINER.

P251: PRESSURIZED CONTAINER; DO NOT PIERCE OR BURN, EVEN AFTER USE

P261: AVOID BREATHING DUST

P264: WASH HANDS AND FACE THOROUGHLY AFTER HANDLING

P270: DO NOT EAT, DRINK, OR SMOKE WHEN USING THIS PRODUCT

P281: USE PERSONAL PROTECTIVE EQUIPMENT AS REQUIRED

P285: IN CASE OF INADEQUATE VENTILATION, WEAR RESPIRATORY PROTECTION

P301+322+331:

IF SWALLOWED, DRINK 2-3 GLASSES OF WATER AND DO NOT INDUCE VOMITING

302+352: IF ON SKIN, WASH WITH SOAP AND WATER

304+313+341:

IF INHALED, AND IF DISTRESS OCCURS, REMOVE VICTIM TO FRESH AIR AND KEEP AT REST IN A POSITION COMFORTABLE FOR BREATHING. SEEK MEDICAL ADVICE/ATTENTION.

305+351+338:

IF IN EYES, RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES IF PRESENT AND EAST TO DO, AND CONTINUE TO RINSE.

337+313: IF EYE IRRITATION PERSISTS, GET MEDICAL ADVICE/ATTENTION.

P401+402+403:

STORE IN ORIGINAL CONTAINER OR EXTINGUISHER IN A DRY, WELL VENTILATED PLACE.

SECTION III. COMPOSITION/INFORMATION ON INGREDIENTS

A top

THIS PRODUCT IS A MIXTURE.

| CHEMICAL NAME | WEIGHT %* | CAS # |
|------------------------|-----------|------------|
| MONOAMMONIUM PHOSPHATE | 85 | 7722-76-1 |
| BARIUM SULFATE | 10 | 7727-43-7 |
| MICA | <3 | 12001-26-2 |
| SILICA | <2 | 7631-86-9 |
| STANNOUS OCTOATE | <.3 | 301-10-0 |
| SILICONE | <.1 | 63148-57-2 |
| PIGMENT | <.1 | 6358-31-2 |

^{* %} IS ROUNDED TO THE NEAREST APPROPRIATE NUMBER. VALUES ARE NOT TO BE CONSIDERED PRODUCT SPECIFICATIONS

SECTION IV. FIRST AID MEASURES



EYE EXPOSURE:

FLUSH EYES WITH WATER UNTIL PAIN-FREE. IF IRRITATION DEVELOPS OR PERSISTS, SEEK MEDICAL ATTENTION.

SKIN EXPOSURE:

WASH WITH PLENTY OF SOAP AND WATER. IF IRRITATION DEVELOPS OR PERSISTS, SEEK MEDICAL ATTENTION.

INHALATION:

MOVE VICTIM TO FRESH AIR. IF IRRITATION DEVELOPS OR PERSISTS, SEEK MEDICAL ATTENTION.

INGESTION:

IF VICTIM IS CONSCIOUS AND ALERT, GIVE 2-3 GLASSES OF WATER TO DRINK. DO NOT INDUCE VOMITING. IF VOMITING OCCURS AND THE VICTIM IS CONSCIOUS, GIVE ADDITIONAL WATER TO FURTHER DILUTE THE CHEMICAL. PREVENT ASPIRATION OF SWALLOWED PRODUCT BY LAYING VICTIM ON SIDE WITH HEAD LOWER THAN THEIR WAIST. SEEK MEDICAL ATTENTION. DO NOT LEAVE VICTIM UNATTENDED.

MEDICAL CONDITIONS POSSIBLY AGGRAVATED BY EXPOSURE:

INHALATION OF THE PRODUCT MAY AGGRAVATE EXISTING CHRONIC RESPIRATORY CONDITIONS SUCH AS ASTHMA, EMPHYSEMA, OR BRONCHITIS. CONTACT WITH THE SKIN MAY AGGRAVATE AN EXISTING SKIN DISEASE. CHRONIC OVEREXPOSURE MAY CAUSE PNEUMOCONIOSIS ("DUSTY LUNG" DISEASE).

SECTION V. FIREFIGHTING MEASURES

EXTINGUISHING MEDIA:

N/A. THIS PRODUCT IS AN EXTINGUISHING AGENT. IT IS NONFLAMMABLE AND NONCOMBUSTIBLE.

SPECIAL FIREFIGHTING PROCEDURES: N/A

UNUSUAL FIRE AND EXPLOSION HAZARDS:

THIS PRODUCT MAY DECOMPOSE IN FIRE AND RELEASE OXIDES OF CARBON, POTASSIUM, AND NITROGEN (REFER TO SECTION X).

SENSITIVITY TO MECHANICAL IMPACT OR STATIC DISCHARGE: NONE

SECTION VI. ACCIDENTAL RELEASE MEASURES

A top

IN CASE OF ACCIDENTAL RELEASE, USE THE APPROPRIATE RESPIRATORY PROTECTION. CLEAN UP THE PRODUCT USING A VACUUM OR WET SWEEP AND SHOVEL TO MINIMIZE THE GENERATION OF DUST. BAG OR DRUM THE PRODUCT FOR DISPOSAL. IF THE PRODUCT IS USED AND/OR CONTAMINATED, USE PERSONAL PROTECTIVE EQUIPMENT AND CONTAINMENT MEANS THAT ARE APPROPRIATE FOR THE COMPOSITION OF THE MIXTURE. PRODUCT SHOULD BE PREVENTED FROM ENTERING WATERWAYS.

SECTION VII. HANDLING AND STORAGE



AVOID EYE, RESPIRATORY, AND SKIN EXPOSURE. USE THE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT WHEN HANDLING. WASH THOROUGHLY AFTER HANDLING (REFER TO SECTION VIII). PRODUCT SHOULD BE STORED IN ITS ORIGINAL CONTAINER OR EXTINGUISHER. WHEN THE PRODUCT IS CONTAINED UNDER PRESSURE (E.G., AN EXTINGUISHER), INSPECT THE CONTAINER FOR RUST OR DAMAGE THAT MAY COMPROMISE THE CONTAINER INTEGRITY. DO NOT STORE THE PRODUCT IN HIGH HUMIDITY AND DO NOT MIX WITH OTHER EXTINGUISHING AGENTS, PARTICULARLY POTASSIUM BICARBONATE BASED AGENTS.

SECTION VIII. EXPOSURE CONTROLS AND PERSONAL PROTECTION

A top

EXPOSURE GUIDELINES:

| | OSHA PEL | ACGIH TLV |
|-----------------------|--|--|
| MONOAMONIUM PHOSPHATE | PARTICULATES NOT OTHERWISE CLASSIFIED | PARTICULATES NOT OTHERWISE CLASSIFIED |
| | TOTAL DUST: 15 MG/M3 | TOTAL DUST: 10 MG/M3 |
| | RESPIRABLE FRACTION: 5 MG/M3 | RESPIRABLE FRACTION: 3 MG/M3 |
| BARIUM SULFATE | PARTICULATES NOT OTHERWISE CLASSIFIED | PARTICULATES NOT OTHERWISE CLASSIFIED |
| | TOTAL DUST: 15 MG/M3 | TOTAL DUST: 10 MG/M3 |
| | RESPIRABLE FRACTION: 5 MG/M3 | RESPIRABLE FRACTION: 3 MG/M3 |
| MICA | 6 MG/M3 | 3 MG/M3 |

19

SILICA 6 MG/M3 10 MG/M3

STANNOUS OCTOATE .1 MG/M3 .1 MG/M3

SILICONE NOT REGULATED NOT REGULATED

PIGMENT NOT REGULATED NOT REGULATED

DURING THE USE OF THIS PRODUCT ON FIRES, EXHAUST GASES AND PRODUCTS OF INCOMPLETE COMBUSTION ARE THE MAIN RESPIRATORY HAZARDS. IN THE MANUFACTURE OF THIS PRODUCT, EMPLOYERS AND EMPLOYEES MUST USE THEIR COLLECTIVE JUDGMENT IN DETERMINING THE ON-THE-JOB SETTINGS WHERE THE USE OF A DUST MASK OR RESPIRATOR IS PRUDENT. THE NEED FOR RESPIRATORY PROTECTION IS NOT LIKELY FOR SHORT-TERM USE IN WELL-VENTILATED AREAS.

RESPIRATORY PROTECTION:

USE AN N-95 DUST MASK FOR LIMITED EXPOSURES AND USE AIR-PURIFYING RESPIRATORS WITH HIGH EFFICIENCY PARTICULATE AIR FILTERS (HEPA FILTERS) FOR PROLONGED EXPOSURES.

EYE PROTECTION:

WEAR CHEMICAL GOGGLES OR FULL-FACE AIR-PURIFYING RESPIRATOR.

SKIN PROTECTION:

USE NITRILE, LATEX, OR SIMILAR GLOVES AND COVERALLS. GOOD PERSONAL HYGIENE PRACTICES ARE ESSENTIAL. AFTER HANDLING THE PRODUCT, AVOID FOOD, TOBACCO PRODUCTS, OR OTHER MEANS OF TRANSFERRING THE PRODUCT FROM HAND TO MOUTH UNTIL AFTER THOROUGHLY WASHING.

SECTION IX. PHYSICAL AND CHEMICAL PROPERTIES

A top

APPEARANCE AND ODOR: LIGHT YELLOW FINE POWDER THAT IS ODORLESS.

APPARENT DENSITY: 0.82

SOLUBILITY:

THE PRODUCT IS COATED WITH WATER REPELLANT SILICONE. NOT IMMEDIATELY SOLUBLE IN WATER.

PH: APPROXIMATELY 4 -5

FLASH POINT: N/A

FLAMMABILITY: N/A

VAPOR PRESSURE: N/A

BOILING POINT: N/A

EXPLOSIVE OR OXIDIZING PROPERTIES: NONE

SECTION X. STABILITY AND REACTIVITY

A top

STABILITY: STABLE

INCOMPATIBLES:

MAGNESIUM, STRONG OXIDIZERS SUCH AS CALCIUM HYPOCHLORITE (POOL CHLORINE), STRONG ALKALIS, AND ISOCYANURIC ACIDS.

DECOMPOSITION PRODUCTS:

THIS PRODUCT MAY DECOMPOSE IN FIRE AND RELEASE CARBON MONOXIDE, CARBON DIOXIDE, AND SULFUR DIOXIDE. OXIDES OF PHOSPHOROUS AND AMMONIA HAVE BEEN REPORTED.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

HAZARDOUS REACTIONS: NONE

SECTION XI. TOXICOLOGICAL INFORMATION

A top

ACUTE TOXICITY:

MONOAMMONIUM PHOSPHATE LD50 (RAT): >1000 MG/KG BODY WEIGHT.

TARGET ORGANS IN HUMANS:

RESPIRATORY SYSTEM, EYES, AND SKIN. THIS PRODUCT IS AN IRRITANT TO EPITHELIAL TISSUE AND MAY AGGRAVATE DERMATITIS. NO INDICATION THAT THE PRODUCT CAUSES SENSITIZATION.

CHRONIC TOXICITY:

PNEUMOCONIOSIS, OR "DUSTY LUNG" DISEASE, MAY RESULT FROM CHRONIC EXPOSURE TO ANY DUST.

REPRODUCTIVE TOXICITY:

THIS PRODUCT IS NOT KNOWN TO HAVE ANY REPRODUCTIVE EFFECTS.

SECTION XII. ECOLOGICAL INFORMATION

A top

ECOTOXICITY:

NEGATIVE EFFECTS ARE UNKNOWN. PROVIDES NUTRIENT NITROGEN AND PHOSPHOROUS TO PLANT LIFE.

DEGRADABILITY: DEGRADES RAPIDLY IN WET OR HUMID ENVIRONMENT.

BIOACCUMULATION: UNKNOWN EXTENT.

MOBILITY IN SOIL: WATER-SOLUBLE. MAY LEECH IN TO GROUNDWATER.

SECTION XIII. DISPOSAL CONSIDERATION

A top

THIS PRODUCT IS NOT A RCRA CHARACTERISTICALLY HAZARDOUS OR LISTED HAZARDOUS WASTE. DISPOSE OF ACCORDING TO STATE OR LOCAL LAWS, WHICH MAY BE MORE RESTRICTIVE THAN FEDERAL REGULATIONS. BE AWARE THAT PRODUCT USED ON A FIRE MAY BE ALTERED OR CONTAMINATED AND THEREBY REQUIRE DIFFERENT DISPOSAL CONSIDERATIONS.

SECTION XIV. TRANSPORTATION INFORMATION



THIS PRODUCT IS NOT DEFINED AS A HAZARDOUS MATERIAL UNDER U.S. DEPARTMENT OF TRANSPORTATION 49 CFR 172, OR BY TRANSPORT CANADA "TRANSPORTATION OF DANGEROUS GOODS" REGULATIONS.

PLEASE NOTE:

ALTHOUGH THIS MATERIAL IS NOT CONSIDERED HAZARDOUS, WHEN CONTAINED IN A STORED PRESSURE FIRE EXTINGUISHER PRESSURIZED WITH A NONFLAMMABLE GAS, THE EXTINGUISHER ITSELF IS CONSIDERED A HAZARDOUS MATERIAL BY THE U.S. DEPARTMENT OF TRANSPORTATION (USDOT) AND TRANSPORT CANADA (TC). THE PROPER SHIPPING NAME SHALL BE FIRE EXTINGUISHER AND THE UN IDENTIFICATION NUMBER IS UN 1044. THE USDOT HAZARD CLASS IS LIMITED QUANTITY WHEN PRESSURIZED TO LESS THAN 241 PSIG AND WHEN SHIPPED VIA HIGHWAY OR RAIL. USE CLASS 2.2, NON-FLAMMABLE GAS, WHEN SHIPPING VIA AIR.

SECTION XV. REGULATORY INFORMATION

A top

INTERNATIONAL INVENTORY STATUS:

ALL INGREDIENTS ARE ON THE FOLLOWING INVENTORIES

COUNTRY AGENCY

U.S.A. TSCA

CANADA DSL

EUROPE EINECS/ELINCS

AUSTRALIA AICS

JAPAN MITI

SOUTH KOREA KECL

EUROPEAN RISK AND SAFETY PHRASES:

EU CLASSIFICATION: HARMFUL

R PHRASES:

22: HARMFUL IF SWALLOWED

36/37/38: IRRITATING TO EYES, RESPIRATORY SYSTEM, AND SKIN.

S PHRASES:

26:

IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE

36: WEAR SUITABLE PROTECTIVE CLOTHING

U.S. FEDERAL REGULATORY INFORMATION:

NONE OF THE CHEMICALS IN THIS PRODUCT ARE UNDER SARA REPORTING REQUIREMENTS OR HAVE SARA THRESHOLD PLANNING QUANTITIES OR CERCLA REPORTABLE QUANTITIES, OR ARE REGULATED UNDER TSCA 8(D).

STATE REGULATORY INFORMATION:

CHEMICALS IN THIS PRODUCT ARE COVERED UNDER THE SPECIFIC STATE REGULATIONS NOTED:

ALASKA:

DESIGNATED TOXIC AND HAZARDOUS SUBSTANCES: NONE

CALIFORNIA:

FLORIDA:

PERMISSIBLE EXPOSURE LIMITS FOR CHEMICAL CONTAMINANTS: NONE

SUBSTANCE LIST: MICA DUST

ILLINOIS:

TOXIC SUBSTANCE LIST: NONE

KANSAS:

SECTION 302/303 LIST: NONE

MASSACHUSETTS:

SUBSTANCE LIST: MICA DUST

MINNESOTA:

LIST OF HAZARDOUS SUBSTANCES: NONE

MISSOURI:

EMPLOYER INFORMATION/TOXIC SUBSTANCE LIST: NONE

NEW JERSEY:

RIGHT TO KNOW HAZARDOUS SUBSTANCE LIST: NONE

NORTH DAKOTA:

LIST OF HAZARDOUS CHEMICALS, REPORTABLE QUANTITIES: NONE

PENNSYLVANIA:

HAZARDOUS SUBSTANCE LIST: NONE

RHODE ISLAND:

HAZARDOUS SUBSTANCE LIST: MICA DUST

TEXAS:

HAZARDOUS SUBSTANCE LIST: NO

WEST VIRGINIA:

HAZARDOUS SUBSTANCE LIST: NONE

WISCONSIN:

TOXIC AND HAZARDOUS SUBSTANCES: NONE

CALIFORNIA PROPOSITION 65:

NO COMPONENT IS LISTED ON THE CALIFORNIA PROPOSITION 65 LIST

SECTION XVI. OTHER INFORMATION

A top

THIS SAFETY DATA SHEET PREPARED IN ACCORDANCE WITH OSHA'S HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200) AND THE GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS)

HMIS RATINGS:

HEALTH 1
FLAMMABILITY 0
REACTIVITY 0

PERSONAL PROTECTIVE EQUIPMENT USE N-95 DUST MASK (SEE SECTION 8)

WHMIS (CANADIAN WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION):

D2B: MAY IRRITATE EYES, MUCOUS MEMBRANES, AND/OR SKIN

THE INFORMATION CONTAINED HEREIN IS GIVEN IN GOOD FAITH AS TYPICAL VALUES AND NOT AS PRODUCT SPECIFICATIONS. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS HEREBY MADE.



SAFETY DATA SHEET

Section 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: ABC Dry Chemical Fire Extinguishant

Other Identifiers: Multi-purpose Dry Chemical

Product Code(s): CH555, F13, F11

Model Code(s) of Extinguishers: 402, IS 18ABC, IS35ABC, IS 45ABC, 13ABC,

V25ABC, VH25ABC, V30ABC, VH30ABC, V50ABC,

VS50ABC, VS75ABC, V250ABC

Recommended Use: Fire suppression, not for human

or animal drug use.

Manufacturer: AMEREX CORPORATION

Internet Address: <u>www.amerex-fire.com</u>

Address: 7595 Gadsden Highway, P.O. Box 81

Trussville, AL 35173-0081

Company Telephone: (205) 655-3271

E-mail Address: info@amerex-fire.com

Emergency Contacts: Chemtrec 1(800) 424-9300 or

(703) 527–3887 March 13, 2018

Revised: March 13, 2018

Section 2. HAZARDS IDENTIFICATION

GHS – Classification

| Health | Environmental | Physical |
|---------------------------------------|---------------|----------|
| Acute Toxicity: Category 5 | None | None |
| Skin Corrosion/Irritation: Category 3 | None | None |
| Skin Sensitization: NO | None | None |
| Eye: Category 2A | None | Warning |
| STOT – Category 3 | None | Warning |
| Carcinogen: Category None | None | None |

GHS – Label Symbol(s):







GHS – Words(s): Warning

Other Hazards Not Resulting in Classification: Mica may contain small quantities of quartz (crystalline silica). Prolonged exposure to respirable crystalline silica dust at concentrations exceeding the occupational exposure limits may increase the risk of developing a disabling

lung disease known as silicosis. IARC found limited evidence for pulmonary carcinogenicity of crystalline silica in humans. In the case of normal use of this product, exposure to silica should be nil.

The attapulgite clay used in this product has a fiber length of less than 5um; therefore, the clay is not considered to be carcinogenic in animals or humans.

GHS – Hazard Phrases

| GHS Hazard | GHS Codes(s) | Code Phrase(s) |
|----------------|--------------|--|
| Physical | H229 | *- Contents under pressure; may explode if heated. |
| Health | H303 | May be harmful if swallowed |
| | 315 | Causes skin irritation |
| | 319 | Causes serious eye irritation |
| | 335 | May cause respiratory irritation |
| Environmental | None | |
| Precautionary: | | |
| General | P101 | If medical advice is needed, have product container or label at hand |
| Prevention | P251 | Do not pierce or burn, even after use. |
| | 261 | Avoid breathing dust/fumes/gas/mist/vapours/spray. |
| | 264 | Wash exposed skin thoroughly after handling. |
| | 280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| Response | P312 | Call a doctor if you feel unwell. |
| | 321 | Specific treatment (see Section 4. First Aid Measures) |
| | 362 | Take off contaminated clothing. |
| | 302+352 | IF ON SKIN: Wash with plenty of water. |
| | 304+340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| | 305+351+338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if |
| | | present and easy to do – continue rinsing. |
| | 332+313 | If skin irritation occurs: Get medical advice/attention. |
| | 342+311 | If experiencing respiratory symptoms: Call a doctor. |
| | 337+313 | If eye irritation persists get medical advice/attention. |
| Storage | P410 +403 | *- Protect from sunlight. Store in well-ventilated place. |
| Disposal | P501 | Dispose of contents through a licensed disposal company. Contaminated container should be disposed of as unused product. |

^{*-} If under pressure

Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | EC No. | REACH Reg. No. | CAS-No. | Weight % | Classification |
|---|-----------|---------------------------|------------|----------|----------------|
| Mono-ammonium phosphate | 231-764-5 | 01-2119488166-29 | 7722-76-1 | 80-98 | NA |
| Attapulgite clay | 601-805-5 | Not Available | 12174-11-7 | 3-16 | NA |
| Mica- potassium aluminum silicate | 310-1276 | Not Available | 12001-26-2 | 1-2 | NA |
| Silicone oil methyl hydrogen polysiloxane | 613-152-3 | Not Available | 63148-57-2 | <1 | NA |
| Calcium carbonate | 207-439-9 | Not Available | 1317-65-3 | <1 | NA |
| Amorphous silica precipitated synthetic zeolite | 231-545-4 | 01-2119379499-16- 0036 | 7631-86-9 | <1 | NA |
| Yellow 14 pigment – di-azo dye | 226-789-3 | Not Available | 5468-75-7 | <1 | NA |

Emergency overview:

Light yellow, fine solid powder, odorless.

Adverse health effects and symptoms:

Mild irritant to the respiratory system. Irritant to eyes, and skin. Symptoms may include coughing,

shortness of breath, and irritation of the lungs, eyes, and skin. Ingestion, although unlikely, may cause cramps, nausea and diarrhea.

Section 4. FIRST AID MEASURES

Eye Exposure: May cause irritation. Irrigate eyes with water and

repeat until pain free. Seek medical attention if irritation develops, or if vision changes occur.

Skin Exposure: May cause skin irritation. In case of contact, wash

with plenty of soap and water. Seek medical attention

if irritation persists.

Inhalation: May cause irritation, along with coughing. If

respiratory irritation or distress occurs remove victim to fresh air. Seek medical attention if irritation

persists.

Ingestion: Overdose symptoms may include numbness or

tingling in hands or feet, uneven heart rate, paralysis,

feeling faint, chest pain or heavy feeling, pain spreading to the arm or shoulder, nausea, diarrhea, sweating, general ill feeling, or seizure (convulsions). If victim is conscious and alert, give 2-3 glasses of water to drink. If conscious, do not induce vomiting. Seek immediate medical attention. Do not leave

victim unattended. To prevent aspiration of

swallowed product, lay victim on side with head lower

than waist.

Medical conditions possibly aggravated by exposure:

Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema, or bronchitis. Skin contact may aggravate existing skin

disease. Chronic overexposure may cause pneumoconiosis ("dusty lung" disease).

Section 5. FIRE-FIGHTING MEASURES

Flammable Properties:

Flash Point:

Not flammable
Not determined

Suitable Extinguishing Media: Non-combustible. Use extinguishing media suitable

for surrounding conditions.

Hazardous Combustion Products: Carbon oxides

Page 3 of 12 Pages

Explosion Data:

Sensitivity to Mechanical Impact: Not sensitive Sensitivity to Static Discharge: Not sensitive

Unusual fire/explosion hazards: In a fire this material may decompose, releasing

oxides of carbon, potassium and nitrogen (see

Section 10).

Protective Equipment and

Precautions for Firefighters: As in any fire, wear self-contained breathing

apparatus pressure-demand. NIOSH (approved or

equivalent) and full protective gear.

Section 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contact with skin, eyes, and clothing. Minimum - safety glasses, gloves, and a dust Personal Protective Equipment:

respirator.

Emergency Procedures: NA

Methods for Containment: Prevent further leakage or spillage if safe to

do so.

Methods for Clean Up: Avoid dust formation; clean up released material

> using vacuum or wet sweep and shovel to minimize generation of dust. Bag and transfer to properly labeled containers. Ventilate area and wash spill site

after material pickup is complete.

If product is contaminated, use PPE and containment Other:

appropriate to the nature of the most toxic

chemical/material in the mixture.

Section 7. HANDLING AND STORAGE

Personal Precautions: Use appropriate PPE when handling or maintaining

equipment, and wash thoroughly after handling (see

Section 8).

Keep product in original container or extinguisher. Conditions for Safe Storage:

> Contents may be under pressure – inspect for extinguisher rust periodically to ensure container

integrity.

Incompatible Products: Do not mix with other extinguishing agents,

particularly potassium bicarbonate and sodium bicarbonate. Incompatible with strong oxidizing agents and strong acids. Do not store in high

humidity. Do not combine with chlorine compounds.

Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| Chemical Name | OSHA PEL | ACGIH TLV | DFG MAK * | EU BLV |
|------------------|--|--|---|--------|
| Mono- | PNOC** | PNOC | PNOC | NA |
| ammonium | Total dust, 15 mg/m ³ | Total dust, 10 mg/m ³ | Total dust, 4 mg/m ³ | |
| phosphate | Respirable fraction, 5 mg/m ³ | Respirable fraction, 3 mg/m ³ | Respirable fraction, 1.5 mg/m ³ | |
| Mica | 6 mg/m ³ | 3 mg/m3 | | NA |
| Attapulgite | PNOC** | PNOC | PNOC | |
| clay | Total dust, 15 mg/m ³ | Total dust, 10 mg/m ³ | Total dust, 4 mg/m ³ | |
| | Respirable fraction, 5 mg/m ³ | Respirable fraction, 3 mg/m ³ | Respirable fraction, 1.5 mg/m ³ | |
| Silicone oil | NR** | NR | - | |
| Calcium | PNOC | PNOC | | NA |
| carbonate | Total dust, 15 mg/m ³ | Total dust, 10 mg/m ³ | | |
| | Respirable fraction, 5 mg/m ³ | Respirable fraction, 3 mg/m ³ | | |
| Amorphous | 20mppcf <u>80 mg/m³</u> | 10 mg/m ³ | 4 mg/m ³ | NA |
| silica | or % SiO ₂ | _ | | |
| Yellow 14 | NR | NR | NR | NA |
| pigment | | | | |

^{*}German regulatory limits **PNOC = Particulates not otherwise classified (ACGIH) also known as Particulates not otherwise regulated (OSHA) *** NR = Not Regulated. All values are 8 hour time weighted average concentrations.

Engineering Controls:

Showers Eyewash stations Ventilation systems

<u>Personal Protective Equipment – PPE Code E:</u>

The need for respiratory protection is not probable during short-term exposure. During production, the manufacturer should use judgement concerning the need for PPE.









Eye/Face Protection: Skin and Body Protection: Respiratory Protection: Tightly fitting safety goggles
Wear protective gloves/coveralls
If exposure limits are exceeded or irritation is
experienced, NIOSH approved respiratory protection
should be worn. Use P100 respirators for limited
exposure. Use air-purifying respirator (APR) with high
efficiency particulate air (HEPA) filters for prolonged

exposure. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations. The need for respiratory protection is not likely for short-term use in well ventilated areas.

Hygiene Measures:

Good personal hygiene practices essential, such as avoiding food, tobacco products, or other hand-to-mouth contact when handling. Wash thoroughly after handling.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Light yellow powder, finely divided odorless

solid

Molecular Weight: NH4H2PO4: 115.03

Odor: Odorless

Odor Threshold: No information available

Decomposition Temperature ^oC: 100 - 120

Freezing Point °C:

Initial Boiling Point °C:

Physical State:

No information available

No information available

Crystalline Powder

pH: Approximately 4.4 to 4.9

Flash Point ^oC: None Autoignition Temperature ^oC: None

Boiling Point/Range ^oC: No information available

Melting Point/Range ^oC: NH4H2PO4: 190

Flammability/Explosion Limits in Air ^oC: Upper – None; Lower-None

Explosive Properties: None Oxidizing Properties: None

Volatile Component (%vol) Not applicable

Evaporation Rate:

Vapor Density:

Vapor Pressure:

No information available
No information available
No information available
NH4H2PO4: 1.41 mm/Hg

Specific gravity at 25 °C: NH4H2PO4: 1.80 Solubility: 40.4 g/100 ml

Partition Coefficient: NH4H2PO4 Est: -4.11 Viscosity: No information available

NOTE: NH4H2PO4 - Monoammonium Phosphate

Section 10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage and handling

conditions.

Incompatibles: Strong oxidizing agents; Strong acids; sodium

hypochlorite and chlorine compounds. Protect from

moisture

Conditions to Avoid: Storage or handling near incompatibles.

Hazardous Decomposition Products: Carbon, nitrogen, and potassium oxides. Heat of fire

may release carbon monoxide.

Possibility of Hazardous Reactions: None

Hazardous Polymerization Does not occur

Section 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Inhalation, skin and eye contact.

Symptoms:

Inhalation: Irritation, coughing.

Eyes: Irritation. Skin: Irritation.

Acute Toxicity: Relatively non-toxic.

Chronic Toxicity:

Short-term Exposure: None known.

Long-term Exposure: As with all dusts, pneumoconiosis, or "dusty lung"

disease, may result from chronic exposure.

Acute Toxicity Values - Health

| Chemical Name | | LD50 | LC50 (Inhalation) |
|-------------------------|--------------------|-----------------------|-------------------|
| | Oral | Dermal | |
| Mono-ammonium phosphate | 5750 mg/kg (rat) | >7940 mg/kg (rabbit) | Not available |
| Mica | None | None | None |
| Attapulgite clay | None | None | None |
| Silicone oil | None | None | None |
| Calcium carbonate | 6450 mg/kg (rat) | 500 mg/24 hr (rabbit) | Not available |
| Amorphous silica | >5000 mg/kg (rat) | >2000 mg/kg (rabbit) | >2.2 mg/L (rat) |
| Yellow 14 pigment | >17000 mg/kg (rat) | >3000 mg/kg (rat) | >4448 mg/m3 (rat) |

Reproductive Toxicity: This product's ingredients are not known to have

reproductive or teratogenic effects.

Target Organs and Effects (TOST): Respiratory system (mild irritant).

This product is a mild irritant to epithelial tissue,

(eyes, mucous membranes, skin) and may aggravate dermatitis. No information was found indicating the

product causes sensitization.

Other Toxicity Categories

| Chemical Name | Germ Cell Mutagenicity | Carcino- genicity | Repro- ductive | TOST Single Exp | TOST Repeated Exp | Aspiration |
|-------------------------|---------------------------|----------------------|-------------------|--------------------|----------------------|------------|
| Mono-ammonium phosphate | None | None | None | Cat 3 | None | None |
| Attapulgite clay | None | None | None | None | None | None |
| Mica | None | None | None | None | None | None |
| Silicone oil | None | None | None | None | None | None |
| Calcium carbonate | None | None | None | None | None | None |
| Amorphous silica | None | None | None | None | None | None |
| Yellow 14 pigment | None | None | None | None | None | None |

Section 12. ECOLOGICAL INFORMATION

Ecotoxicity: Negative effects unknown. Provides nutrient nitrogen and

phosphorus to plant life.

Persistence/Degradability: Degrades rapidly in humid/wet environment.

Probability of rapid biodegradation: NH4H2PO4 Est: 0.693 (Rapid);

(NH4)2SO4: Est: 0.684 (Rapid)

Anaerobic biodegradation probability: NH4H2PO4 Est: 0.398 (Slow);

(NH4)2SO4: Est: 0.398 (Slow)

Bioaccummulation potential: Low.

Bioconcentration factor: NH4H2PO4: 3.16 L/kg (wet weight) (Low BCF)

Bioaccummulation factor: NH4H2PO4: 63.04 L/kg (wet weight)

Mobility in soil: Slow evaporation rate; water soluble, may leach to

groundwater

 Log Koc:
 NH4H2PO4 Est: -1.25

 Log Koa:
 NH4H2PO4 Est: 16.72

 Log Kaw:
 NH4H2PO4 Est: -20.86

NOTE: NH4H2PO4 – Mono-ammonium Phosphate

Other Adverse Ecological Effects: No other known effects at this time

Aquatic Toxicity Values – Environment – Research

| Chemical Name | Acute (LC50) | Chronic (LC50) |
|-------------------------|--------------|----------------|
| Mono-ammonium phosphate | N/A | N/A |
| Mica | N/A | N/A |
| Attapulgite clay | N/A | N/A |
| Silicone oil | N/A | N/A |
| Calcium carbonate | N/A | N/A |
| Amorphous silica | N/A | N/A |
| Yellow 14 pigment | N/A | N/A |

Aquatic Toxicity Values – Environment – Estimates

| Chemical Name | Acute (LC50) | EC50 | |
|-------------------------|-----------------------------|-------------------------------|--|
| Mono-ammonium phosphate | 2,91e+07 mg/L Fish 96 hr; | 6.70e+05 mg/L Gr. Algae 96 hr | |
| | 9.4e+06 mg/l Daphnid 48 hr; | | |
| Mica | N/A | N/A | |
| Attapulgite clay | N/A | N/A | |
| Silicone oil | N/A | N/A | |
| Calcium carbonate | N/A | N/A | |
| Amorphous silica | N/A | N/A | |
| Yellow 14 pigment | N/A | N/A | |

Section 13. DISPOSAL CONSIDERATIONS

Safe Handling Use appropriate PPE when handling, and wash

thoroughly after handling (see Section 8).

Waste Disposal Considerations Dispose in accordance with federal, state, and local

regulations.

Contaminated Packaging Dispose in accordance with federal, state, and local

regulations.

NOTES:

This product is not a RCRA characteristically hazardous or listed hazardous waste. Dispose of according to state or local laws, which may be more restrictive than federal laws or regulations. Used product may be altered or contaminated, creating different disposal considerations.

Section 14. TRANSPORT INFORMATION

UN Number:
UN Proper Shipping Name:
NA
Transport Hazard Class:
NA
Packing Group:
NA
Marine Pollutant?:
NO

IATA Not regulated

DOT Not regulated

NOTES:

This product is not defined as a hazardous material under U.S. Department of Transportation (DOT) 49 CFR 172, or by Transport Canada "Transportation of Dangerous Goods" regulations.

Special Precautions for Shipping:

The transportation information above covers the ABC 555 dry chemical extinguisher agent as shipped in bulk containers and not when contained in fire extinguishers or fire extinguisher systems. If shipped in a stored pressure-type fire extinguisher, and pressurized with a non-flammable, non-toxic

inert expellant gas, the fire extinguisher is considered a hazardous material by the US Department of Transportation and Transport Canada. The proper shipping name shall be FIRE EXTINGUISHER and the UN designation is UN 1044. The DOT hazard class/division is LIMITED QUANTITY when pressurized to less than 241 psig and when shipped via highway or rail. UN Class 2.2. Non-Flammable Gas, when shipping via air. Packing Group – N/A

Section 15. REGULATORY INFORMATION

International Inventory Status: All ingredients are on the following inventories

| | ,g a | | | |
|--------------------------|--|--------|--|--|
| Country(ies) | Agency | Status | | |
| United States of America | TSCA | Yes | | |
| Canada | DSL | Yes | | |
| Europe | EINECS/ELINCS | Yes | | |
| Australia | AICS | Yes | | |
| Japan | MITI | Yes | | |
| South Korea | KECL | Yes | | |

REACH Title XVII Restrictions: No information available

| Chemical Name | Dangerous Substances | Organic Solvents | Harmful Substances Whose Names Are to be Indicated on Label | Pollution Release and Transfer Registry (Class II) | Pollution Release and Transfer Registry (Class I) | Poison and Deleterious Substances Control Law |
|------------------------|-------------------------|---------------------|---|--|---|--|
| Monoammonium Phosphate | Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable |

| Component | ISHA – Harmful Substances Prohibited for Manufacturing, Importing, Transferring, or Supplying | ISHA – Harmful Substances Requiring Permission | Toxic Chemical Classification Listing (TCCL) – Toxic Chemicals | Toxic Release Inventory (TRI) – Group I | Toxic Release Inventory (TRI) – Group II |
|---|---|---|---|---|--|
| Monoammonium Phosphate 7722-76-1 | Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable |
| Attapulgite clay 12174-11-7 (>3) | Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable |
| Mica- potassium aluminum silicate 120001-26-2 (>2) | Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable |
| Calcium carbonate 471-34-1 | Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable |
| Amorphous silica 69012-64-2 | Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable |
| Yellow 14 pigment 5468-75-7 | Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable |

European Risk and Safety phrases:

EU Classification: Xn - Irritant

R Phrases: 20 Harmful by inhalation.

36/37/38 Irritating to eyes, respiratory system and skin.

S Phrases: 22 Do not breath dust.

24/25 Avoid contact with skin and eyes

In case of contact with eyes, rinse immediately with

plenty of water and seek medical advice.

Wear suitable protective clothing.

U.S. Federal Regulatory Information:

SARA 313:

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) - This product does not contain and chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

None of the chemicals in this product are under SARA reporting requirements or have SARA threshold planning quantities (TPQs) or CERCLA reportable quantities (RQs), or are regulated under TSCA 8(d).

SARA 311/312 Hazard Categories:

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

^{* -} Only applicable if material is in a pressurized extinguisher.

Clean Water/Clean Air Acts:

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) or Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61) and Section 112 of the Clean Air Act Amendments of 1990.

U.S. State Regulatory Information:

Chemicals in this product are covered under specific State regulations, as denoted below:

Alaska - Designated Toxic and Hazardous Substances: None

California – Permissible Exposure Limits for Chemical Contaminants: None

Florida – Substance List: Mica Dust Illinois – Toxic Substance List: None Kansas – Section 302/303 List: None

Massachusetts – Substance List: Mica Dust

Page 11 of 12 Pages

Minnesota – List of Hazardous Substances: None

Missouri – Employer Information/Toxic Substance List: None **New Jersey** – Right to Know Hazardous Substance List: None

North Dakota - List of Hazardous Chemicals, Reportable Quantities: None

Pennsylvania – Hazardous Substance List: None **Rhode Island** – Hazardous Substance List: Mica Dust

Texas – Hazardous Substance List: No

West Virginia – Hazardous Substance List: None **Wisconsin** – Toxic and Hazardous Substances: None

California Proposition 65: No component is listed on the California Proposition 65 list.

Other:

Mexico – Grade No component listed Canada – WHMIS Hazard Class No component listed

Section 16. OTHER INFORMATION

This SDS conforms to requirements under U.S., U.K., Canadian, Australian, and EU regulations or standards, and conforms to the proposed 2003 ANSI Z400.1 format.

Issuing Date 17-June-2012 Revision Date 13-March-2018

Revision Notes None

The information herein is given in good faith but no warranty, expressed or implied, is made. Updated by William F. Garvin, CIH.



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

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

1.2. Other means of identification

Product code 435028 UN/ID no UN1044 **Synonyms** None

No information available **Chemical Family**

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



Revision date 13-Feb-2019

37



 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-% |
|-------------------|------------|----------|
| Attapulgite | 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 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 PrecautionsUse 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

39



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

Clored Procedure Cyclem

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 |
|-------------------|-------------------------|----------|--------------------------------------|------------|
| Attapulgite | TWA: 1 mg/m³ respirable | - | - | - |
| 12174-11-7 | particulate matter | | | |
| Calcium carbonate | = | - | TWA: 10 mg/m ³ total dust | = |
| 471-34-1 | | | TWA: 5 mg/m³ respirable | |
| | | | 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 ProtectionNo 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

Physical State powder

Odor odorless Color Yellow

Odor Threshold 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

PAGE 4/9



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 No data available **Water Solubility Solubility in Other Solvents** No data available **Partition coefficient** No data available No data available **Autoignition Temperature**

Decomposition Temperature No data available No data available Kinematic viscosity

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

Inhalation May cause irritation of respiratory tract.

May cause irritation. **Eye Contact** Skin contact May cause irritation.

Ingestion Ingestion may cause irritation to mucous membranes.

Component Information

Acute Toxicity

Revision date 13-Feb-2019

41



/ Product name ANSUL ABC Multipurpose Dry Chemical Agent -Stored Pressure System **PAGE** 6/9

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

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
 Group 3
 X

 12174-11-7
 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
STOT - Single Exposure
STOT - Repeated Exposure
Target organ effects
Aspiration Hazard
No information available.
No information available.
Eyes, Respiratory System, Skin.
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 | - | LC50 96 h 460 - 1000 mg/L | LC50 48 h = 14 mg/L Daphnia |
| 7783-20-2 | | Leuciscus idus static; LC50 96 h | magna; EC50 24 h = 423 mg/L |
| | | 123 - 128 mg/L Poecilia reticulata | Daphnia magna |
| | | semi-static; LC50 96 h = 126 mg/L | |
| | | Poecilia reticulata; LC50 96 h > 100 | |
| | | mg/L Pimephales promelas; LC50 | |
| | | 96 h 32.2 - 41.9 mg/L | |
| | | Oncorhynchus mykiss flow-through; | |
| | | LC50 96 h 5.2 - 8.2 mg/L | |
| | | Oncorhynchus mykiss static; LC50 | |
| | | 96 h = 18 mg/L Cyprinus carpio; | |
| | | LC50 96 h = 480 mg/L Brachydanio | |
| | | rerio flow-through; LC50 96 h = 420 | |
| | | mg/L Brachydanio rerio semi-static; | |
| | | LC50 96 h = 250 mg/L Brachydanio | |
| | | rerio | |
| Silicic Acid/silica gel, Amorphous | EC50 (72h) = 440 mg/L | LC50 (96h) static = 5000 mg/L | EC50 (48h) = 7600 mg/L |



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

UN1044, Fire extinguishers, 2.2 Description

Hazard class 2.2 **Special Provisions** 18, 110 **Emergency Response Guide** 126

Number

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

Revision date 13-Feb-2019

43



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

UN1044, Fire extinguishers, 2.2 Description

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 Complies **IECSC** Does not comply **KECL 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

| in the trial and eategoines | |
|-----------------------------------|-----|
| Acute Health Hazard | No |
| Chronic health hazard | No |
| Fire Hazard | No |
| Sudden Release of Pressure Hazard | Yes |
| Reactive Hazard | No |

Revision date 13-Feb-2019

44



 / 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 | = | X | X |
| 7631-86-9 | | | |
| Magnesium carbonate | X | X | - |
| 546-93-0 | | | |

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

NFPA Health Hazards 0 Flammability 0 Instability 0 Physical and chemical properties
HMIS 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



1. Identification

Product identifier CIRCLESAFE® 850A

Other means of identification None.

Recommended use Non-destructive testing.

Recommended restrictions None known.

Manufacturer / Importer / Supplier / Distributor information

Company nameCircle Systems, Inc.Address1210 Osborne Road

Saint Marys, GA 31558

Telephone 912-729-2735

E-mail customerservice@circlesafe.com

Emergency phone number Chem-tel 800-255-3924 (US & Canada); +1-813-248-0585 (International)

2. Hazard(s) identification

Physical hazardsGases under pressureCompressed gasHealth hazardsReproductive toxicityCategory 1B

OSHA defined hazards

Label elements

 \Diamond

Not classified.



Signal word Danger

Hazard statement Contains gas under pressure; may explode if heated. May damage fertility or the unborn child.

Precautionary statement

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Wear protective gloves/protective clothing/eye protection/face protection.

Response If exposed or concerned: Get medical advice/attention. 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.

Storage Store locked up. Protect from sunlight. Store in a well-ventilated place.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

Not classified.

3. Composition/information on ingredients

Mixtures

| Chemical name | CAS number | % |
|----------------|------------|----|
| Boric Acid | 10043-35-3 | <2 |
| Carbon Dioxide | 124-38-9 | <5 |
| Iron Oxide | 1317-61-9 | <5 |

4. First-aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a

physician if symptoms develop or persist.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

CIRCLESAFE® 850A SDS US

Eye contact

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.

Ingestion

Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the

lungs. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

High concentrations: Inhalation of propellant may cause respiratory irritation, dizziness, nausea, or drowsiness.

Indication of immediate medical attention and special treatment needed

Treat symptomatically. Symptoms may be delayed.

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. If exposed or concerned: Get medical advice/attention.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire-fighting equipment/instructions

Containers should be cooled with water to prevent vapor pressure build up.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep upwind. Keep out of low areas. Wear appropriate personal protective equipment. 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.

Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. The product is immiscible with water and will spread on the water surface. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Use water spray to reduce vapors or divert vapor cloud drift. Cover with plastic sheet to prevent spreading. 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. For waste disposal, see section 13 of the SDS.

Environmental precautions

Prevent further leakage or spillage if safe to do so.

7. Handling and storage

Precautions for safe handling

Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Ground and bond containers when transferring material. Avoid inhalation of aerosols. Use only in well-ventilated areas. Do not re-use empty containers.

Conditions for safe storage, including any incompatibilities

Version #: 03 Revision date: 31-January-2019

916055

Level 1 Aerosol.

Contents under pressure. Do not handle or store near an open flame, heat or other sources of ignition. Do not expose to heat or store at temperatures above 120°F/49°C as can may burst. Protect from direct sunlight. Do not puncture, incinerate or crush. Store away from incompatible materials (see Section 10 of the SDS).

2/7

CIRCLESAFE® 850A SDS US

Issue date: 24-October-2013

8. Exposure controls/personal protection

Occupational exposure limits

US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

| Components | Туре | Value | |
|-------------------------------|------|----------|--|
| Carbon dioxide (CAS 124-38-9) | PEL | 5000 ppm | |

US ACGIH Threshold Limit Values

| Components | Туре | Value | Form |
|----------------------------------|------|-----------|---------------------|
| Boric acid (CAS 10043-35-3) | STEL | 6 mg/m3 | Inhalable fraction. |
| , | TWA | 2 mg/m3 | Inhalable fraction. |
| Carbon dioxide (CAS 124-38-9) | STEL | 30000 ppm | |
| , | TWA | 5000 ppm | |

US NIOSH: Pocket Guide to Chemical Hazards

| Components | Туре | Value | |
|----------------------------------|------|--------------------------|--|
| Carbon dioxide (CAS 124-38-9) | STEL | 54000 mg/m3 30000 ppm | |
| | TWA | 9000 mg/m3 5000 ppm | |

Biological limit values No biological exposure limits noted for the ingredient(s).

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.

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.

Other Wear suitable protective clothing.

Respiratory protection If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an

air-supplied respirator.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

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

3/7

clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Physical state Liquid. **Form** Aerosol. Color Red.

Odor Slight. Detergent like.

Odor threshold Not available.

pН 8-9

Melting point/freezing point Not available. Initial boiling point and boiling Not relevant.

range

Flash point Not available. **Evaporation rate** Not available. Flammability (solid, gas) Not relevant.

916055 Version #: 03 Revision date: 31-January-2019

CIRCLESAFE® 850A SDS US

Issue date: 24-October-2013

Upper/lower flammability or explosive limits

Flammability limit – lower Not available.

(%)

Flammability limit – upper Not available.

(%)

Explosive limit – lower (%) Not relevant.

Explosive limit – upper (%) Not relevant.

Vapor pressure Not available.

Vapor density

Not available.

Specific gravity

1 (68°F (20°C))

Solubility(ies)

Solubility (water) Soluble.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature Not relevant.

Decomposition temperature Not relevant.

Viscosity Not available.

Other information

VOC (Weight %) Not applicable.

10. Stability and reactivity

ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Stable under normal temperature conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Heat, flames and sparks. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

IngestionExpected to be a low ingestion hazard.InhalationMay cause irritation to the respiratory system.

Skin contactMay cause skin irritation.Eye contactMay cause eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

High concentrations: Inhalation of propellant may cause respiratory irritation, dizziness, nausea,

or drowsiness.

Information on toxicological effects

Acute toxicity Expected to be a low hazard for usual industrial or commercial handling by trained personnel.

Components Species Test Results

Boric acid (CAS 10043-35-3)

AcuteDermal

LD50 Rabbit > 2000 mg/kg

Oral

LD50 Rat 2660 mg/kg

Butendioic acid, sulfo-1,4-bis(2-ethylhexyl) ester sodium salt (CAS 577-11-7)

Revision date: 31-January-2019

Acute Oral

Version #: 03

916055

LD50 Mouse 2.64 g/kg

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

CIRCLESAFE® 850A SDS US SDS US

Serious eye damage/eye

irritation

Direct contact with eyes may cause temporary irritation.

Respiratory sensitization

Not a respiratory sensitizer.

Skin sensitization

This product is not expected to cause skin sensitization.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

Reproductive toxicity

May damage fertility or the unborn child.

Specific target organ toxicity -

single exposure

No data available.

Specific target organ toxicity -

repeated exposure

No data available.

Aspiration hazard

No data available.

Chronic effects

Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity Not expected to be harmful to aquatic organisms.

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

No data available for this product.

Mobility in soil

Not 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 Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents

under pressure. Do not puncture, incinerate or crush. Dispose of contents/container in

accordance with local/regional/national/international regulations.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

14. Transport information

DOT

UN1950 **UN** number

Aerosols Non-Flammable UN proper shipping name

Transport hazard class(es) 2.2 Subsidiary classes

Limited Quantity, Class 2.2 Label(s)

Packing group Y203

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Packaging exceptions Packaging non-bulk None. Packaging bulk None.

IATA

UN number UN1950

UN proper shipping name Aerosols Non-Flammable

Transport hazard class(es) 2.2 Subsidiary class(es)

Label(s) Limited Quantity, Class 2.2

Y203 Packing group **Environmental hazards** No. **ERG Code** 10L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

CIRCLESAFE® 850A SDS US Issue date: 24-October-2013

5/7

IMDG

UN number UN1950

UN proper shipping name Aerosols Non-Flammable

Transport hazard class(es) 2.2 Subsidiary class(es)

Limited Quantity, Class 2.2 Label(s)

Packing group Y203

Environmental hazards

Marine pollutant No.

Not available. **EmS**

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and the

IBC Code

This substance/mixture is not intended to be transported in bulk.

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt D)

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard Categories Immediate Hazard - No

> Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - Yes Reactivity Hazard - No

SARA 302 Extremely hazardous substance

| Chemical name | CAS number | Reportable quantity | Threshold planning quantity | Threshold planning quantity, lower value | Threshold planning quantity, upper value |
|---------------|------------|---------------------|-----------------------------|--|--|
| Formaldehyde | 50-00-0 | 100 | 500 lbs | | |

SARA 311/312 Hazardous Yes

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act Not regulated.

(SDWA)

US state regulations

US Massachusetts RTK - Substance List

Carbon dioxide (CAS 124-38-9)

US New Jersey Worker and Community Right-to-Know Act

Carbon dioxide (CAS 124-38-9) Boric Acid (CAS 10043-35-3)

CIRCLESAFE® 850A SDS US

916055 Version #: 03 Revision date: 31-January-2019 Issue date: 24-October-2013

6/7

US Pennsylvania RTK - Hazardous Substances

Carbon dioxide (CAS 124-38-9)

US Rhode Island RTK

Not regulated.

US California Proposition 65

WARNING: This product does contain a chemical known to the State of California to cause cancer.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Formaldehyde (CAS 50-00-0)

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) | Yes |
| Canada | Non-Domestic Substances List (NDSL) | No |
| China | Inventory of Existing Chemical Substances in China (IECSC) | Yes |
| Europe | European Inventory of Existing Commercial Chemical Substances (EINECS) | Yes |
| Europe | European List of Notified Chemical Substances (ELINCS) | No |
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | No |
| Korea | Existing Chemicals List (ECL) | Yes |
| New Zealand | New Zealand Inventory | Yes |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | No |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes |

^{*}A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date 24-October-2013 **Revision date** 31-January-2019

Version# 03 **HMIS®** ratings Health: 1

Flammability: 0 Physical hazard: 0

NFPA Ratings



List of abbreviations LD50: Lethal Dose, 50%.

916055 Version #: 03 Revision date: 31-January-2019

PEL: Permissible exposure limit. STEL: Short term exposure limit. TWA: Time weighted average.

References HSDB® - Hazardous Substances Data Bank

Disclaimer The information in this (M)SDS was obtained from sources which we believe are reliable but

cannot guarantee. Additionally, your use of this information is beyond our control and may be beyond our knowledge. Therefore, the information is provided without any representation

or warranty express or implied.

CIRCLESAFE® 850A SDS US Issue date: 24-October-2013

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).



Version 16.1 replaces Version 15.1 Revision date: 29/01/2016 According to (EU) No. 2015/830

SECTION 1

IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product identifier: MAGNAGLO® 14A

Relevant identified uses of the mixture and uses advised against:

Relevant identified uses: Fluorescent magnetic powder used in

Magnetic Particle Inspection (MPI).

Uses advised against:This product is not recommended for any

use other than the identified uses above.

1.3 Details of the supplier of the safety data sheet

Manufacturer: Magnaflux® (A Division of ITW Ltd)

Address: Faraday Road, South Dorcan Industrial

Estate, Swindon, UK

Postcode: SN3 5HE

Telephone/fax number:Telephone: +44 (0)1793 524566
Fax: +44 (0)1793 490459

Web: www.eu.magnaflux.com

Email address of competent person

responsible for SDS:

National contact: None appointed

1.4 Emergency telephone number: T: +44 (0)1793 524566 (office hours)

Opening hours: Office hours (GMT) Monday - Thursday 8am

- 5pm, Friday 8am - 4pm

datasheets@magnaflux.co.uk

Other comments: Emergency telephone service is provided in

English only.

SECTION 2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

Classification according to Regulation Th

(EC) No 1272/2008 (CLP):

This product is not classified as dangerous according to Regulation (EC) No 1272/2008

[CLP].

Additional information EUH208: Contains

tris(nonylphenyl)phosphite. May produce an

allergic reaction.

EUH210: Safety data sheet available on

request.

For full text of hazard statements, and EU hazard statements see SECTION 16.

2.2 Label Elements:

Labelling according to regulation (EC) No 1272/2008 [CLP]

Hazard Pictograms: No pictogram required.

Signal Word:
Hazard Statement(s):
None.

Precautionary Statement(s): P260 Do not breathe dust.

P280 Wear suitable protective clothing.

Supplementary Precautionary

Statement(s):

None

Supplementary Hazard Information

(EU)

EUH208: Contains

tris(nonylphenyl)phosphite. May produce an

allergic reaction.

EUH210: Safety data sheet available on

request.

Hazard Determining Component(s)

2.3 Other hazards:

Dust inhalation hazard.

tris(nonylphenyl)phosphite.

SECTION 3

COMPOSITION / INFORMATION ON INGREDIENTS

3.2 Mixtures

| Ingredient Name | CAS No | EC No | REACH Registration Number | % Weight | Classification according to Regulation (EC) No 1272/2008 [CLP] | Additional information |
|-----------------------------|----------------|---------------|---------------------------------|----------|--|------------------------|
| Triiron tetraoxide | 1317- | 215- | 01-2119457646- | 50 - 75% | Not classified | None |
| | 61-9 | 277-5 | 28-xxxx | | | |
| Tris(nonylphenyl) phosphite | 26523- 78-4 | 247- 759-6 | 01-2119520601- 54-xxxx | < 0.2 % | Skin Sens. 1 H317 Aquatic Acute 1 H400 Aquatic Chronic 1 H410 | None |

Note: Hazard statement(s) in this section apply only to raw materials, not necessarily to finished products.

SECTION 4 FIRST AID MEASURES

4.1 Description of first aid measures:

General notes: If symptoms persist, seek medical attention.

Show this safety data sheet to the doctor in

attendance.

Following inhalation: Remove to fresh air. Keep at rest. If not

breathing give artificial respiration. Seek medical attention if symptoms occur.

Following skin contact: Flush with water, use soap if available.

Contaminated clothing should be washed

before re-use.

Following eye contact: Flush eyes with large amounts of water for

at least 10 minutes and seek medical

attention if irritation persists.

Following ingestion: Do NOT induce vomiting. Never give

anything by mouth to an unconscious

person. Seek medical attention if symptoms

occur.

Self-protection of the first aider:No action shall be taken involving any

personal risk or without suitable training. If it is suspected that the mixture is still present,

wear appropriate personal protective

equipment.

4.2 Most important symptoms, both acute and delayed:

No delayed effects known.

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

None known.

^{*}See Section 16 for hazard statement(s) text in full.

SECTION 5 FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media: Carbon dioxide, foam, dry chemical, water

fog or spray.

Unsuitable extinguishing media:

High pressure water iet.

5.2 Special hazards arising from the

substance or mixture:

At temperatures above 80°C the product may become unstable and oxidise. This generates additional heat. If possible keep

unaffected containers cool with water spray.

Smoke and soot.

Hazardous combustion products:

Advice for fire-fighter:

Self contained breathing apparatus and full protective clothing must be worn if necessary.

SECTION 6

5.3

ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Suitable protective equipment (see Section 8) should be worn to prevent any

contamination of skin, eyes and personal clothing.

For non-emergency personnel: Remove ignition sources.

For emergency responders: Remove ignition sources. Keep

unnecessary people at a safe distance.

6.2 Environmental precautions:

Prevent product from entering drains sewers and watercourses. Notify the Environment Agency or water authorities if a major spillage occurs. Prevent product from contaminating soil.

6.3 Methods and material for containment and cleaning up:

Avoid creating dust. Take measures to prevent the build up of electrostatic charge.

For containment: Contain spillage. Place in a container for

disposal according to local/national

regulations.

Large spills should be placed into containers

pending disposal.

Dispose of waste according to local/national

regulations.

For cleaning up: Sweep up.

Other information: No other information.

6.4 Reference to other sections:

For Personal Protective Equipment see Section 8. For disposal information see Section 13

SECTION 7

HANDLING & STORAGE

7.1 Precautions for safer handling:

Protective Measures: Wear suitable protective clothing, such as

chemical resistant gloves, apron, goggles and mask to protect from dust. Avoid

contact with skin and eyes.

Do not breathe product dust. Ensure adequate exhaust ventilation when in use. Product can form flammable dust clouds in

Measures to prevent fire:Product can form flammable dust clouds in air. Take measures to prevent the build-up

air. Take measures to prevent the bu

of electrostatic charge.

Advice on general occupational

hygiene:

Wash thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities:

Technical measures and storage Store in original container in a cool dry area conditions: away from heat and sources of ignition.

Keep containers tightly closed when not in

use.

Packaging materials: Store in original container.

Requirements for storage rooms and Recommended storage temperature 10°C to vessels:

30°C. Keep containers out of direct sunlight.

Further information on storage Rotate stock and check regularly for

damaged items.

conditions: 7.3 Specific end use(s):

Recommendations: Use only for Non Destructive Testing (NDT)

applications.

Industrial sector specific solutions: See product data sheet for further

information.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 **Control parameters:**

Occupational exposure limit values:

Occupational exposure figures have been set for some of the components of this preparation based on GESTIS International Limit Values or manufacturers' recommendation.

| | | Limit value - 8 hours | | Limit value - | short term |
|--------------------------|------------------------|-----------------------|--------|---------------|------------|
| Ingredient name | Country | ppm | mg /m³ | ppm | mg /m³ |
| Iron Oxide fume or | UK | | 5 | | 10 |
| respirable dust (as Fe). | Sweden | | 3.5 | | |
| Dust, inhalable | UK | | 10 | | |
| | Germany (AGS) | | 10 | | 20 |
| | Germany (DFG) | | 4 | | |
| | Sweden | | 10 | | |
| Dust, respirable | UK | | 4 | | |
| | Germany (AGS) | | 3 | | 6 |
| | Sweden | | 5 | | |
| Data obtained from GES | ΓIS International Limi | it Values, EH4 | 0. | | |

Note: Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.

Derived No Effect Level (DNEL) - Iron Oxide

| End User | Exposure Route | Exposure Time | Effects | DNEL |
|----------|----------------|---------------|----------|----------------------|
| Worker | Inhalation | Long term | Systemic | 10 mg/m ³ |
| Worker | Inhalation | Long term | Local | 10mg/m ³ |

Note: The Derived No Effect Level (DNEL) is an estimated safe level of exposure that is derived from toxicity data in accordance with specific guidance within the European REACH regulation. The DNEL may differ from an Occupational Exposure Limit (OEL) for the same chemical. OELs may be recommended by an individual company, a government regulatory body or an expert organization, such as the Scientific Committee for Occupational Exposure Limits (SCOEL) or the American Conference of Governmental Industrial Hygenists (ACGIH). OELs are considered to be safe exposure levels for a typical worker in an occupational setting for an 8-hour work shift, 40 hour work week, as a time weighted average (TWA) or a 15 minute short-term exposure limit (STEL). While also considered to be protective of health, OELs are derived by a process different from that of REACH.

Predicted No Effect Concentration (PNEC) - Iron Oxide

| Water - Fresh Water | No data - aquatic toxicity unlikely |
|------------------------------|-------------------------------------|
| Water - Marine Water | No data - aquatic toxicity unlikely |
| Water - Intermittent release | No data - aquatic toxicity unlikely |
| Sediment - Fresh water | No data available at present |
| Sediment - Marine water | No data available at present |
| Soil | No data available at present |
| Sewage Treatment plant | No data - aquatic toxicity unlikely |

8.2 Exposure controls:

Concentrations of product dusts in the working atmosphere must be kept as low as is reasonably practicable. Exposure should be minimised by the use of appropriate containment, engineering control and ventilation measures.

Where this is not possible, personal protective equipment should be worn as indicated below where appropriate.

Appropriate engineering controls: Provide adequate ventilation, including

appropriate local extraction, to ensure that the defined occupational exposure

limits are not exceeded.

Personal protection equipment:

Eye and face protection: Safety glasses with side-shields

conforming to EN166.

Skin protection - hand: Protective gloves conforming to EN374.

Use chemical resistant gloves

recommended by glove manufacturer as being suitable for iron oxide if hand

exposure is unavoidable.

Consult the glove manufacturer for exact

breakthrough time.

Skin protection – other: Wear impervious clothing. The type of

protective equipment must be selected according to the concentration and amount of dangerous substance at the

specific workplace.

Respiratory protection: For nuisance exposures use type P1 (EU

EN 143) particle respirator.

If using in a confined or unventilated area use a respirator type ABEK-P3 (EU EN 143) filter cartridge. Use respirators and components tested and approved under

CEN standards.

Thermal hazards: Not applicable

Environmental exposure controls: Avoid any release to the environment.

SECTION 9 PHYSICAL & CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Appearance: Brown powder.

Odour: None.
Odour threshold: N/A
pH: Neutral.

Melting point/freezing point:
Initial boiling point and boiling range:
Flash point (PMCC):
Evaporation rate (BuAC = 100):
No data available.
No data available.
No data available.

Flammability (solid, gas) (Limits in air): No data available.

Upper/lower flammability or explosive No data available.

limits:

Vapour pressure:No data available.Vapour density (Air = 1):No data available.Relative density:0.5 g/cm³.

Solubility: 0.5 g/cm⁻. Negligible.

Partition coefficient: n-octanol/water:Auto-ignition temperature:
No data available.
No data available.

Decomposition temperature: > 80 °C.

Viscosity (ASTM D445):No data available.Explosive properties:No data available.Oxidising properties:No data available.

Note: properties relate to the bulk product only unless otherwise stated.

9.2 Other information:

No other information.

SECTION 10 STABILITY & REACTIVITY

10.1 Reactivity: No data available.

10.2 Chemical stability Stable under normal conditions of use and

applications. At temperatures above 80 °C the product may become unstable and

oxidise.

10.3 Possibility of hazardous reactions: No data available.

10.4 Conditions to avoid: None under normal conditions of storage

and use.

10.5 Incompatible materials: Strong oxidising agents. Acids and alkalis.

10.6 Hazardous decomposition materials: None under normal conditions of storage

and use. Smoke, soot and oxides of carbon

on combustion.

SECTION 11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects: based on data for component materials.

Acute toxicity - oral: Based on the available data, the classification

criteria are not met.

Acute toxicity – dermal: Data lacking.

Acute toxicity – inhalation: Data lacking.

Skin corrosion/irritation: Based on the available data, the classification

criteria are not met.

Serious eye damage/irritation: Based on the available data, the classification

criteria are not met.

Respiratory sensitisation: Data lacking.

Skin sensitisation: Based on the available data, the classification

criteria are not met.

Germ cell mutagenicity:Based on the available data, the classification

criteria are not met.

Carcinogencity: Based on the available data, the classification

criteria are not met.

Reproductive toxicity: Data lacking.

STOT single exposure: Based on the available data, the classification

criteria are not met.

STOT repeated exposure: Based on the available data, the classification

criteria are not met.

Aspiration hazard: Data lacking.

Information on likely Routes of Exposure and Potential Health Effects:

Inhalation: Inhalation of the dry product can cause

discomfort of the respiratory tract. Repeated or prolonged breathing of particles may cause

respiratory disease.

Ingestion: Ingestion may cause discomfort of the mouth,

throat and digestive tract.

Eye contact: Exposure to high airborne concentrations may

produce physical discomfort and possible damage to the outer surface of the eye.

Skin contact: Frequent or prolonged contact with the

product may irritate skin.

Toxicity Test Results: based on data for component materials, where available.

Iron Oxide

| Acute Toxicity – oral | LD50 (rat) | > 10000 mg/kg |
|-----------------------------|------------|--------------------------------------|
| Acute Toxicity – dermal | LD50 (rat) | no data available |
| Acute Toxicity – inhalation | LC50 (rat) | >210 mg/m ³ air (6 hours) |

Other Information: No other information.

SECTION 12 ECOLOGICAL INFORMATION

Based on data for component materials

12.1 Toxicity:

Iron Oxide

12.4

| Fish | Brachydanio rerio | LC0 | 96 hours | > 50000 mg/l |
|-----------------------|-------------------|------|----------|--------------|
| Aquatic Invertebrates | Daphnia magna | EC50 | 48 hours | > 100 mg/l |
| Microorganisms | Activated sludge | EC50 | 3 hours | > 10000mg/l |

12.2 Persistence and degradability: Not relevant for inorganic substances.
 12.3 Bioaccumulative potential: This preparation does not contain any

substances expected to be bioaccumulative.

No data available.

Partition coefficient: n-octanol/water

(log Kow):

Bioconcentration factor (BCF): No data available.

Mobility in soil: Immobile in soil.

12.5 Results of PBT and vPvB assessment: This mixture does not contain any

substances that are assessed to be a PBT or

vPvB.

12.6 Other adverse effects: No data available.

SECTION 13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Dispose of waste and residues in accordance with local authority requirements. Seek the advice of an approved waste disposal contractor for disposal at a licensed facility in accordance with national legislation.

Product/packing disposal: Emp

Empty containers may contain residue and can be dangerous. Do NOT remove labels.

Not hazardous waste.

Waste codes/waste designations

according to LoW:

NOTE: Waste codes are assigned based upon the most common uses for this material and may not reflect contaminants resulting from actual use. Waste producers need to assess the actual process used when generating the waste and its contaminants in order to assign the proper waste code(s).

Waste treatment – relevant information: Dispose of waste and residues in

accordance with local authority requirements. Seek the advice of an approved waste disposal contractor for disposal at a licensed facility in

disposal at a licensed facility in accordance with national legislation. Do not empty down the drain.

Sewage disposal – relevant

information:

Not applicable.

Other disposal recommendations: Use a licensed waste contractor. Iron can

be recycled to avoid landfill.

SECTION 14 TRANSPORT INFORMATION

| 14.1 | UN number: | ADR/RID: | - |
|------|---|------------------|----------------------|
| | | IMDG: | - |
| | | IATA: | - |
| 14.2 | UN proper shipping name: | ADR/RID: | Not dangerous goods. |
| | | IMDG: | Not dangerous goods. |
| | | IATA: | Not dangerous goods. |
| 14.3 | Transport hazard class(es): | ADR/RID: | - |
| | . , | IMDG: | - |
| | | IATA: | - |
| 14.4 | Packing group: | ADR/RID: | - |
| | | IMDG: | - |
| | | IATA: | - |
| 14.5 | Environmental hazards: | ADR/RID: | - |
| | | IMDG: | - |
| | | IATA: | - |
| 14.6 | Special precautions for user: | | |
| | Not applicable. | | |
| 14.7 | Transport in bulk according to Annex II o | f Marpol 73/78 a | nd the IBC code: |

SECTION 15 REGULATORY INFORMATION

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

EU Regulations:

This data sheet complies with the requirements of Regulation (EC) No 1272/2008 on the classification, labelling and packaging of substances and mixtures.

Safety data sheet as required by EU Regulations 1907/2006 and REACH Annex II Amendment (EU) No. 2015/830.

Information according to 2013/10/EU and 2008/47/EC amendment of the aerosol directive 75/324/EEC.

Not applicable - this product is not an aerosol.

National regulations (Germany):

Wassergefahrdungklasse (water nwg - non-hazardous to water.

hazard class):

TechnischeAnleitungLuft (TA-Luft): Class 5.2.1 Overall dust, including fine dust.

15.2 Chemical safety assessment:

No chemical safety assessment has been carried out for this mixture by the supplier.

SECTION 16 OTHER INFORMATION

(i) Indication of changes:

This safety data sheet has been updated to meet the requirements of Regulation EU No 2015/830 and Regulation (EC) No 1272/2008. Removal of the Classification according to 67/548/EEC as amended & Directive 199/45/EC.

Vertical lines on the left hand side indicate an amendment from the previous version.

(ii) Abbreviations and acronyms:

ADR European Agreement concerning the International Carriage of Dangerous Goods

by Road (Accord européen relatif au transport international des marchandises

Dangereuses par Route)

CAS No. Chemical Abstracts Service number
CEN European Committee for Standardisation

CLP Classification, Labelling Packaging Regulation; Regulation (EC) No 1272/2008

ECHA European Chemicals Agency

EC50 Half Maximal Effective Concentration

EC number EINECS and ELINCS number

EINECS European Inventory of Existing Commercial Substances

ELINCS European List of notified Chemical Substances

GHS Globally Harmonized System

IATA International Air Transport Association
IMDG International Maritime Dangerous Goods

LC50 Lethal Concentration to 50% of a test population

LD50 Lethal Dose to 50% of a test population

MPI Magnetic Particle Inspection
NDT Non-Destructive Testing
OEL Occupational Exposure Limit

PBT Persistent, Bioaccumulative and Toxic Substance

PMCC Pensky-Martens closed cup method PPE Personal Protection Equipment

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation

EC (No) 1907/2006

RID Regulations concerning the International Carriage of Dangerous Goods by Rail

(Reglement International concernant le transport des marchandises Dangereuses

par chemin de fer)

SDS Safety Data Sheet

STOT RE Specific Target Organ Toxicity, Repeat Exposure

STOT SE Specific Target Organ Toxicity, Single Exposure

TA-Luft Technical Instructions on Air Quality Control (Technische Anleitung zur

Reinhaltung der Luft)

vPvB Very Persistent and Very Bioaccumulative

WEL Workplace Exposure Limit

WGK German Water Hazard Class (Wassergefährdungsklasse)

(iii) Key literature and sources of data:

- Supplier's safety data sheets for components listed in Section 3.
- European Chemicals Agency, http://echa.europa.eu/
- GESTIS International Limit Values Database, http://limitvalue.ifa.dguv.de/Webform_gw.aspx
- Occupational Exposure Limits EH40/2005.
- Commission regulation (EU) 2015/830.
- Control of Substances Hazardous to Health Regulations 2002.
- Hazardous waste regulations 2005.
- Health & Safety at Work Act 1974.
- REACH Directive (EC) 1907/2006
- IFA Database on Hazardous Substances, http://www.dguv.de/ifa/Gefahrstoffdatenbanken/GESTIS-Stoffdatenbank/index-2.jsp

(iv) Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 (CLP):

| Classification according to Regulation (EC) No 1272/2008 | Classification procedure | |
|--|--------------------------|--|
| Not classified | Calculation Method | |

(v) Hazard statements (number and full text):

EUH208: Contains tris(nonylphenyl)phosphite. May produce an allergic reaction.

EUH210: Safety data sheet available on request.

H317: May cause an allergic skin reaction.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

Relevant precautionary statements (number and full text):

P260 Do not breathe dust.

P280 Wear suitable protective clothing.

(vi) Training advice:

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene. Chemical hazard risk assessment. Provide adequate information, instruction and training to operators.

DISCLAIMER

The information and recommendations contained herein are based upon data believed to be up-to-date and correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information and recommendations contained herein. We accept no responsibility and disclaim all liability for any harmful effects that may be caused by (incorrect) use, handling, purchase, resale, or exposure to our product. Customers and users of our product must comply with all applicable health and safety laws, regulations, and orders. In particular, they are under an obligation to carry out a risk assessment for the particular work places and to take adequate risk management measures in accordance with the national implementation legislation of EU Directives 89/391/EEC and 98/24/EC amended by Directive 2014/27/EU.

| Revision | Revision | Revision to take into account Regulations (EC) No 1272/2008 (CLP) |
|----------|---------------|---|
| summary: | Comments | and Regulation (EU) No 2015/830. Removal of the Classification |
| | | according to 67/548/EEC as amended & Directive 1999/45/EC |
| | | (CHIP4). Vertical lines on the left hand side indicate an amendment |
| | | from the previous version. |
| | Revision Date | 29/01/2016 |

Revision Date 29/01/2016 **Version** 16.1





Prepared according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

Date of issue: 03/11/2016 Revision date: 08/23/2017 Supersedes: 07/27/2017 Version: 3.0

SECTION 1: IDENTIFICATION

1.1. IDENTIFICATION

Product form : Mixture
Product name : SKC-S Aerosol

1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Recommended use : Non-Destructive Testing.

1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Manufacturer Distributor

Magnaflux 155 Harlem Ave. Glenview, IL 60025 - USA T 847-657-5300

1.4. EMERGENCY TELEPHONE NUMBER

Emergency number : CHEMTREC 800-424-9300

SECTION 2: HAZARD IDENTIFICATION

2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

GHS classification

Flam. Aerosol 1 Press. Gas (Comp.) Skin Irrit. 2 STOT SE 3 Asp. Tox. 1

2.2. LABEL ELEMENTS

GHS labelling

Hazard pictograms (GHS)



GHS04





Signal word (GHS) : Danger

Hazard statements (GHS)

: Extremely flammable aerosol. Contains gas under pressure; may explode if heated. May be fatal if swallowed and enters airways. Causes skin irritation. May cause drowsiness or

Precautionary statements (GHS)

: 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. Avoid breathing dust/fume/gas/mist/vapours/spray. Wash hands, forearms and face thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. 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 to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. OTHER HAZARDS

No additional information available

2.4. UNKNOWN ACUTE TOXICITY

Not applicable

08/23/2017 EN (English) Page 1



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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. SUBSTANCES

Not applicable

3.2. MIXTURES

| Name | Product identifier | % |
|--|----------------------|-------|
| Naphtha, petroleum, hydrotreated light | (CAS-No.) 64742-49-0 | 96.40 |
| Carbon dioxide | (CAS-No.) 124-38-9 | 3.60 |

SECTION 4: FIRST AID MEASURES

4.1. DESCRIPTION OF FIRST AID MEASURES

First-aid measures after inhalation : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult,

give oxygen. Call a POISON CENTER or doctor/physician if you feel unwell.

First-aid measures after skin contact : In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.

First-aid measures after eve contact : 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.

First-aid measures after ingestion : IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce

vomiting. Never give anything by mouth to an unconscious person.

4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Symptoms/effects after inhalation : May cause irritation to the respiratory tract. May cause drowsiness or dizziness.

Symptoms/effects after skin contact : Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking

of the skin.

Symptoms/effects after eye contact : May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear

production, with possible redness and swelling.

Symptoms/effects 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 or vomiting.

4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

SECTION 5: FIREFIGHTING MEASURES

5.1. EXTINGUISHING MEDIA

Suitable extinguishing media : Dry chemical. Carbon dioxide. Water fog. Foam.

Unsuitable extinguishing media : Do not use water jet.

5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Fire hazard : Extremely flammable aerosol. Products of combustion may include, and are not limited to:

oxides of carbon.

Explosion hazard : Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of

burns and injuries.

Reactivity : No dangerous reaction known under conditions of normal use.

5.3. ADVICE FOR FIREFIGHTERS

Firefighting instructions : Move containers away from the fire area if this can be done without risk. DO NOT fight fire

when fire reaches explosives. Evacuate area.

Protection during firefighting : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory

protection (SCBA). Use water spray to keep fire-exposed containers cool.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Remove ignition sources. Use special care to avoid

static electric charges. Use only non-sparking tools. Avoid breathing vapour or mist.

6.1.1. FOR NON-EMERGENCY PERSONNEL

No additional information available

6.1.2. FOR EMERGENCY RESPONDERS

No additional information available

08/23/2017 EN (English) 2/6





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6.2. ENVIRONMENTAL PRECAUTIONS

Do not allow to enter into surface water or drains. Prevent entry to sewers and public waters.

6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

For containment

: Stop leak without risks if possible. Dilute with water. Absorb and/or contain spill with inert material (sand, vermiculite or other appropriate material), then place in suitable container. Do not flush into surface water or sewer system. Wear recommended personal protective equipment. Use explosion-proof equipment.

Methods for cleaning up

: Scoop up material and place in a disposal container. Provide ventilation.

6.4. REFERENCE TO OTHER SECTIONS

For further information refer to section 8: "Exposure controls/personal protection"

SECTION 7: HANDLING AND STORAGE

7.1. PRECAUTIONS FOR SAFE HANDLING

Additional hazards when processed

: Hazardous waste due to potential risk of explosion. Pressurized container: Do not pierce or burn, even after use.

Precautions for safe handling

: Keep away from sources of ignition - No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Use non-sparking tools. Use explosion-proof equipment. Take precautionary measures against static discharge. Avoid breathing vapour or mist. Avoid contact with skin and eyes. Do not swallow. When using do not eat, drink or smoke. Use only outdoors or in a well-ventilated area.

Hygiene measures

: Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Technical measures

: Proper grounding procedures to avoid static electricity should be followed.

Storage conditions

: Keep locked up and out of reach of children. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatibles. Do not expose to temperatures exceeding 50 °C/ 122 °F.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. CONTROL PARAMETERS

| Naphtha, petroleum, hydrotreated light (64742-49-0) | | | |
|---|--------------------------|-------------|--|
| ACGIH | ACGIH TWA | 247 ppm/8h | |
| Carbon dioxide (124-38-9) | | | |
| ACGIH | ACGIH TWA (ppm) | 5000 ppm | |
| ACGIH | ACGIH STEL (ppm) | 30000 ppm | |
| OSHA | OSHA PEL (TWA) (mg/m³) | 9000 mg/m³ | |
| OSHA | OSHA PEL (TWA) (ppm) | 5000 ppm | |
| IDLH | US IDLH (ppm) | 40000 ppm | |
| NIOSH | NIOSH REL (TWA) (mg/m³) | 9000 mg/m³ | |
| NIOSH | NIOSH REL (TWA) (ppm) | 5000 ppm | |
| NIOSH | NIOSH REL (STEL) (mg/m³) | 54000 mg/m³ | |
| NIOSH | NIOSH REL (STEL) (ppm) | 30000 ppm | |

8.2. EXPOSURE CONTROLS

Appropriate engineering controls

: Ensure good ventilation of the work station. Use explosion-proof ventilation equipment.

Hand protection

: Wear suitable gloves resistant to chemical penetration.

Eye protection

: Safety glasses or goggles are recommended when using product.

Skin and body protection

: Wear suitable protective clothing.

Respiratory protection

: In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Environmental exposure controls

Avoid release to the environment.

Other information

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

65

08/23/2017 EN (English) 3/6



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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Physical state : Gas/Pressurized Liquid

Appearance Clear Colour : Colourless Odour : Hydrocarbon Odour threshold : No data available рΗ : Not applicable : No data available Melting point Freezing point : Not applicable Boiling point : No data available : No data available Flash point Relative evaporation rate (butylacetate=1) : No data available

Flammability (solid, gas) : Extremely flammable aerosol

Vapour pressure : No data available Relative vapour density at 20 °C : No data available Relative density : No data available Solubility : No data available Partition coefficient n-octanol/water : No data available : No data available Auto-ignition temperature Decomposition temperature : No data available : No data available Viscosity, kinematic : No data available Viscosity, dynamic Explosive limits : No data available

Explosive properties : Pressurised container: May burst if heated.

Oxidising properties : No data available

9.2. OTHER INFORMATION

VOC content : 745.77 g/l
Heat of combustion : 39.14 kJ/g

SECTION 10: STABILITY AND REACTIVITY

10.1. REACTIVITY

No dangerous reaction known under conditions of normal use.

10.2. CHEMICAL STABILITY

Extremely flammable aerosol. Contents under pressure. Container may explode if heated. Do not puncture. Do not burn. Extreme risk of explosion by shock, friction, fire or other sources of ignition.

10.3. POSSIBILITY OF HAZARDOUS REACTIONS

No dangerous reaction known under conditions of normal use.

10.4. CONDITIONS TO AVOID

Sources of ignition. Heat. Incompatible materials. Direct sunlight.

10.5. INCOMPATIBLE MATERIALS

Oxidizing agents.

10.6. HAZARDOUS DECOMPOSITION PRODUCTS

May include, and are not limited to: oxides of carbon.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. INFORMATION ON TOXICOLOGICAL EFFECTS

Acute toxicity (oral) : Not classified.

Acute toxicity (dermal) : Not classified.

Acute toxicity (inhalation) : Not classified.

08/23/2017 EN (English) 4/6 66



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| Naphtha, petroleum, hydrotreated light (64742-49-0) | | |
|---|---|--|
| LD50 oral rat | > 5000 mg/kg | |
| LD50 dermal rabbit | > 3160 mg/kg | |
| LC50 inhalation rat | 73680 ppm/4h | |
| Skin corrosion/irritation | : Causes skin irritation. | |
| | pH: Not applicable | |
| Serious eye damage/irritation | : Not classified. | |
| | pH: Not applicable | |
| Respiratory or skin sensitisation | : Not classified. | |
| Germ cell mutagenicity | : Not classified. | |
| Carcinogenicity | : Not classified. | |
| Reproductive toxicity | : Not classified. | |
| STOT-single exposure | : May cause drowsiness or dizziness. | |
| STOT-repeated exposure | : Not classified. | |
| Aspiration hazard | : May be fatal if swallowed and enters airways. | |

| SKC-S Aerosol | | | |
|-------------------------------------|--|--|--|
| Vaporizer | Aerosol | | |
| Symptoms/effects after inhalation | : May cause irritation to the respiratory tract. May cause drowsiness or dizziness. | | |
| Symptoms/effects after skin contact | : Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin. | | |
| Symptoms/effects after eye contact | : May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling. | | |
| Symptoms/effects 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 or vomiting. | | |

SECTION 12: ECOLOGICAL INFORMATION

12.1. **TOXICITY**

Ecology - general : May cause long-term adverse effects in the aquatic environment.

12.2. PERSISTENCE AND DEGRADABILITY

| SKC-S Aerosol | |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |
| | |

12.3. **BIOACCUMULATIVE POTENTIAL**

| SKC-S Aerosol | | |
|---------------------------|----------------------|--|
| Bioaccumulative potential | Not established. | |
| | | |
| Carbon dioxide (124-38-9) | | |
| BCF fish 1 | (no bioaccumulation) | |

MOBILITY IN SOIL 12.4.

No additional information available

OTHER ADVERSE EFFECTS 12.5.

Effect on the global warming : No known effects from this product.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS

: Dispose in a safe manner in accordance with local/national regulations. Product/Packaging disposal recommendations

Additional information : Flammable vapours may accumulate in the container. Pressurized container: Do not pierce or

burn, even after use.

67 08/23/2017 5/6 EN (English)





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SECTION 14: TRANSPORT INFORMATION

In accordance with DOT/TDG/IATA/IMDG

DOT : Consumables, Limited Quantity

Transportation of Dangerous Goods : Consumables, Limited Quantity

IATA : UN1950, Aerosols Flammable, 2.1

IMDG : UN1950, Aerosols, 2.1 (Limited Quantity)

SECTION 15: REGULATORY INFORMATION

15.1. FEDERAL REGULATIONS

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories.

NFPA health hazard : 2
NFPA fire hazard : 4
NFPA reactivity : 0



15.2. INTERNATIONAL REGULATIONS

No additional information available

15.3. US STATE REGULATIONS

California Proposition 65 - This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer, developmental and/or reproductive harm

Carbon dioxide (124-38-9)

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: OTHER INFORMATION

Revision date : 08/23/2017
Other information : None.

Prepared by : Nexreg Compliance Inc.

www.Nexreg.com



SDS HazCom 2012 - WHMIS 2015 (Nexreg_MAGNAFLUX)

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08/23/2017 EN (English) 6/6 68



Prepared according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

Date of issue: 03/18/2016 Revision date: 03/18/2016 Version: 1.0

SECTION 1: IDENTIFICATION

1.1. PRODUCT IDENTIFIER

Product name : SKD-S2 Aerosol
Product code : Not available

1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Distributor

Use of the substance/mixture : Non-Destructive Testing

1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Manufacturer
Magnaflux
155 Harlem Ave.

Glenview, IL 60025 - USA T: 847-657-5300

1.4. EMERGENCY TELEPHONE NUMBER

Emergency number : CHEMTREC 800-424-9300

SECTION 2: HAZARDS IDENTIFICATION

2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

GHS classification

Flam. Aerosol 1

Liquefied gas

Eye Irrit. 2A

STOT SE 3

Simple Asphy

2.2. LABEL ELEMENTS

GHS labeling

Hazard pictograms (GHS)



 \Diamond



Signal word (GHS) : Danger

Hazard statements (GHS) : Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes

serious eye irritation. May cause drowsiness or dizziness. May displace oxygen and cause rapid suffocation.

Precautionary statements (GHS) : Keep away fro

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. Wash hands thoroughly after handling. Wear eye protection/face protection. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. 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 inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Store in a well-ventilated place. Store locked up. Dispose of contents/container in accordance with local/regional/national/international Regulations.

2.3. OTHER HAZARDS

No additional information available.

2.4. UNKNOWN ACUTE TOXICITY (GHS)

Not applicable.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. SUBSTANCE

Not applicable.

03/18/2016 EN (English US) Page 1



Prepared according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

3.2. MIXTURE

| Name | Product identifier | % |
|---------------------------------------|---------------------|-------|
| Isopropyl alcohol | (CAS No) 67-63-0 | 45.17 |
| Petroleum gases, liquefied, sweetened | (CAS No) 68476-86-8 | 29.73 |
| Acetone | (CAS No) 67-64-1 | 14.43 |

SECTION 4: FIRST AID MEASURES

4.1. DESCRIPTION OF FIRST AID MEASURES

First-aid measures after inhalation : If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing. Get

medical advice/attention if you feel unwell.

First-aid measures after skin contact : If irritation occurs, flush skin with plenty of water. Get medical attention if irritation persists.

First-aid measures after eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to

First-aid measures after ingestion : If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give

anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

do, remove contact lenses, if worn. If irritation persists, get medical attention.

4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Symptoms/injuries after inhalation : May cause drowsiness or dizziness. May cause respiratory tract irritation. May displace oxygen and

cause rapid suffocation. May cause cardiac arrhythmia.

Symptoms/injuries after skin contact : May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.

Symptoms/injuries after eye contact : Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and

tear production, with marked redness and swelling of the conjunctiva.

Symptoms/injuries after ingestion : May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

SECTION 5: FIREFIGHTING MEASURES

5.1. EXTINGUISHING MEDIA

Suitable extinguishing media : Water fog, foam, dry chemical, carbon dioxide.

Unsuitable extinguishing media : Do not use water jet.

5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Fire hazard : Extremely flammable aerosol. Products of combustion may include, and are not limited to:

oxides of carbon, oxides of nitrogen, oxides of sulfur.

Explosion hazard : Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of

burns and injuries.

5.3. ADVICE FOR FIREFIGHTERS

Firefighting instructions : Move containers away from the fire area if this can be done without risk. DO NOT fight fire

when fire reaches explosives. Evacuate area.

Protection during firefighting : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory

protection (SCBA). Use water spray to keep fire-exposed containers cool.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

General measures : Remove ignition sources. Use special care to avoid static electric charges. Use personal

protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary

and unprotected personnel.

6.2. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

For containment : Stop leak, if possible without risk. Move containers from spill area. Use only non-sparking tools.

Use explosion-proof equipment. Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter

waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for cleaning up : Scoop up material and place in a disposal container. Provide ventilation.

6.3. REFERENCE TO OTHER SECTIONS

See section 8 for further information on protective clothing and equipment and section 13 for advice on waste disposal.

03/18/2016 EN (English US) 2/6 **70**



Prepared according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

SECTION 7: HANDLING AND STORAGE

7.1. PRECAUTIONS FOR SAFE HANDLING

Additional hazards when processed

: Hazardous waste due to potential risk of explosion. Pressurized container: Do not pierce or

burn, even after use. Keep away from sources of ignition - No smoking.

Precautions for safe handling

Do not spray on an open flame or other ignition source. Use non-sparking tools. Use explosion-proof equipment. Take precautionary measures against static discharge. Avoid breathing dust/fume/gas/ mist/vapors/spray. Avoid contact with skin and eyes. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke. Use only outdoors or in a

well-ventilated area.

Hygiene measures : Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Technical measures : Proper grounding procedures to avoid static electricity should be followed.

Storage conditions : Keep locked up and out of reach of children. Store in original container protected from direct

sunlight in a dry, cool and well-ventilated area, away from incompatibles. Do not expose to

temperatures exceeding 50 °C/ 122 °F. Keep in fireproof place.

7.3. SPECIFIC END USE(S)

Not available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. CONTROL PARAMETERS

| Isopropyl alcohol (67- | -63-0) | | |
|------------------------|--------------------------|--------------------|--|
| ACGIH | ACGIH TWA (ppm) | 200 ppm | |
| ACGIH | ACGIH STEL (ppm) | 400 ppm | |
| OSHA | OSHA PEL (TWA) (mg/m³) | 980 mg/m³ | |
| OSHA | OSHA PEL (TWA) (ppm) | 400 ppm | |
| USA - IDLH | US IDLH (ppm) | 2000 ppm (10% LEL) | |
| USA - NIOSH | NIOSH REL (TWA) (mg/m³) | 980 mg/m³ | |
| USA - NIOSH | NIOSH REL (TWA) (ppm) | 400 ppm | |
| USA - NIOSH | NIOSH REL (STEL) (mg/m³) | 1225 mg/m³ | |
| USA - NIOSH | NIOSH REL (STEL) (ppm) | 500 ppm | |
| | | | |

| Petroleum gases, liquefied, sweetened (68476-86-8) | | |
|--|----------------------|----------|
| ACGIH | ACGIH STEL (ppm) | 1000 ppm |
| OSHA | OSHA PEL (TWA) (ppm) | 1000 ppm |

| Acetone (67-64-1) | | |
|-------------------|-------------------------|--------------------|
| ACGIH | ACGIH TWA (mg/m³) | 1188 mg/m³/8h |
| ACGIH | ACGIH TWA (ppm) | 500 ppm/8h |
| ACGIH | ACGIH STEL (mg/m³) | 1782 mg/m³/15min |
| ACGIH | ACGIH STEL (ppm) | 750 ppm/15min |
| OSHA | OSHA PEL (TWA) (mg/m³) | 2400 mg/m³ |
| OSHA | OSHA PEL (TWA) (ppm) | 1000 ppm |
| USA - IDLH | US IDLH (ppm) | 2500 ppm (10% LEL) |
| USA - NIOSH | NIOSH REL (TWA) (mg/m³) | 590 mg/m³/10h |
| USA - NIOSH | NIOSH REL (TWA) (ppm) | 250 ppm/10h |

8.2. EXPOSURE CONTROLS

Appropriate engineering controls : Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below

recommended exposure limits.

Hand protection : Wear chemically resistant protective gloves.

Eye protection : Safety glasses with side-shields. Skin and body protection : Wear suitable protective clothing.

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection

must be based on known or anticipated exposure levels, the hazards of the product and the

safe working limits of the selected respirator.

Environmental exposure controls : Maintain levels below Community environmental protection thresholds.

Other information : Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices.

03/18/2016 EN (English US) 3/6 71



Prepared according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Physical state : Gas/Pressurized Liquid

Appearance : No data available.

Color : White Odor : Alcohol

Odor threshold : No data available

pH : Neutral

Melting point : No data available
Freezing point : No data available
Boiling point : No data available
Flash point : No data available
Relative evaporation rate (butyl acetate=1) : No data available
Flammability (solid, gas) : Flammable

Explosion limits : No data available

Explosive properties : Pressurised container: May burst if heated.

Oxidizing properties : No data available Vapor pressure : No data available Relative density : No data available Relative vapor density at 20 °C : No data available : No data available Solubility Partition coefficient: n-octanol/water : No data available Auto-ignition temperature : No data available Decomposition temperature : No data available Viscosity : No data available Viscosity, kinematic : No data available Viscosity, dynamic : No data available

9.2. OTHER INFORMATION

VOC content : 765.06 g/l
VOC minus exempt solvents : 655.18 g/l
Heat of combustion : 13 285 Btu/lb

SECTION 10: STABILITY AND REACTIVITY

10.1. REACTIVITY

No dangerous reaction known under conditions of normal use.

10.2. CHEMICAL STABILITY

Extremely flammable aerosol. Contents under pressure. Container may explode if heated. Do not puncture. Do not burn. Extreme risk of explosion by shock, friction, fire or other sources of ignition.

10.3. POSSIBILITY OF HAZARDOUS REACTIONS

No dangerous reaction known under conditions of normal use.

10.4. CONDITIONS TO AVOID

Sources of ignition. Heat. Incompatible materials.

10.5. INCOMPATIBLE MATERIALS

Strong oxidizing agents, aldehydes, halogenated hydrocarbons, halogens, strong acids.

10.6. HAZARDOUS DECOMPOSITION PRODUCTS

May include, and are not limited to: oxides of carbon, oxides of nitrogen, oxides of sulfur.

03/18/2016 EN (English US) 4/6 72



Prepared according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. INFORMATION ON TOXICOLOGICAL EFFECTS

Acute toxicity : Not classified

SECTION 12: ECOLOGICAL INFORMATION

12.1. TOXICITY

Ecology - general : May cause long-term adverse effects in the aquatic environment.

12.2. PERSISTENCE AND DEGRADABILITY

| SKD-S2 Aerosol | |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |

12.3. BIOACCUMULATIVE POTENTIAL

| SKD-S2 Aerosol | |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |

12.4. MOBILITY IN SOIL

No additional information available.

12.5. OTHER ADVERSE EFFECTS

Effect on the global warming : No known ecological damage caused by this product.

03/18/2016 EN (English US) 5/6 **73**



Prepared according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. WASTE TREATMENT METHODS

Waste disposal recommendations : This material must be disposed of in accordance with all local, state, provincial, and federal

regulations. The generation of waste should be avoided or minimized wherever possible.

Additional information : Flammable vapors may accumulate in the container. Pressurized container: Do not pierce or

burn, even after use.

SECTION 14: TRANSPORT INFORMATION

In accordance with DOT/TDG/IATA/IMDG

DOT Ground : Consumables, Limited Quantity

TDG : Consumables, Limited Quantity

IATA : UN 1950, Aerosols, Flammable, 2.1

IMDG : UN 1950, Aerosols, 2.1 (Limited Quantity)

ADDITIONAL INFORMATION

Other information : No supplementary information available.

Special transport precautions : Do not handle until all safety precautions have been read and understood.

SECTION 15: REGULATORY INFORMATION

15.1. FEDERAL REGULATIONS

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories except:

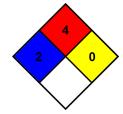
Chlorite-group minerals CAS No 1318-59-8

| Isopropyl alcohol (67-63-0) | |
|---|---|
| Subject to reporting requirements of United States SARA Section 313 | |
| EPA TSCA Regulatory Flag | T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA |
| SARA Section 313 - Emission Reporting | 1.0 % |

Acetone (67-64-1)

EPA TSCA Regulatory Flag T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA

NFPA health hazard : 2
NFPA fire hazard : 4
NFPA reactivity : 0



15.3. US STATE REGULATIONS

| SKD-S2 Aerosol | |
|----------------------------|--|
| State or local regulations | This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm |

SECTION 16: OTHER INFORMATION

Date of issue : 03/18/2016
Revision date : 03/18/2016
Other information : None.

Disclaimer: We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. 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. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.

03/18/2016 EN (English US) 6/6 **74**



Prepared according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

Date of issue: 03/18/2016 Revision date: 03/18/2016 Version: 1.0

SECTION 1: IDENTIFICATION

PRODUCT IDENTIFIER 1.1.

Product name : SKD-S2 Aerosol Product code : Not available

1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Use of the substance/mixture : Non-Destructive Testing

DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET 1.3.

Manufacturer Distributor Magnaflux

155 Harlem Ave. Glenview, IL 60025 - USA T: 847-657-5300

1.4. **EMERGENCY TELEPHONE NUMBER**

Emergency number : CHEMTREC 800-424-9300

SECTION 2: HAZARDS IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

GHS classification

Flam. Aerosol 1 Liquefied gas Eye Irrit. 2A STOT SE 3

Simple Asphy

2.2. LABEL ELEMENTS

GHS labeling

Hazard pictograms (GHS)





Signal word (GHS) : Danger

Hazard statements (GHS) Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes

serious eye irritation. May cause drowsiness or dizziness. May displace oxygen and cause

rapid suffocation.

Keep away from heat/sparks/open flames/hot surfaces. -No smoking. Do not spray on an open Precautionary statements (GHS)

flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Wash hands thoroughly after handling. Wear eye protection/face protection. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. 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 inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Store in a well-ventilated place. Store locked up. Dispose of contents/container in accordance with

local/regional/national/international Regulations.

2.3. **OTHER HAZARDS**

No additional information available.

UNKNOWN ACUTE TOXICITY (GHS)

Not applicable.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE

Not applicable.

03/18/2016 EN (English US) Page 1



Prepared according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

3.2. MIXTURE

| Name | Product identifier | % |
|---------------------------------------|---------------------|-------|
| Isopropyl alcohol | (CAS No) 67-63-0 | 45.17 |
| Petroleum gases, liquefied, sweetened | (CAS No) 68476-86-8 | 29.73 |
| Acetone | (CAS No) 67-64-1 | 14.43 |

SECTION 4: FIRST AID MEASURES

4.1. DESCRIPTION OF FIRST AID MEASURES

First-aid measures after inhalation : If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing. Get

medical advice/attention if you feel unwell.

First-aid measures after skin contact : If irritation occurs, flush skin with plenty of water. Get medical attention if irritation persists.

First-aid measures after eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to

do, remove contact lenses, if worn. If irritation persists, get medical attention.

First-aid measures after ingestion : If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give

anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Symptoms/injuries after inhalation : May cause drowsiness or dizziness. May cause respiratory tract irritation. May displace oxygen and

cause rapid suffocation. May cause cardiac arrhythmia.

Symptoms/injuries after skin contact : May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.

Symptoms/injuries after eye contact : Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and

tear production, with marked redness and swelling of the conjunctiva.

Symptoms/injuries after ingestion : May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

SECTION 5: FIREFIGHTING MEASURES

5.1. EXTINGUISHING MEDIA

Suitable extinguishing media : Water fog, foam, dry chemical, carbon dioxide.

Unsuitable extinguishing media : Do not use water jet.

5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Fire hazard : Extremely flammable aerosol. Products of combustion may include, and are not limited to:

oxides of carbon, oxides of nitrogen, oxides of sulfur.

Explosion hazard : Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of

burns and injuries.

5.3. ADVICE FOR FIREFIGHTERS

Firefighting instructions : Move containers away from the fire area if this can be done without risk. DO NOT fight fire

when fire reaches explosives. Evacuate area.

Protection during firefighting : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory

protection (SCBA). Use water spray to keep fire-exposed containers cool.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

General measures : Remove ignition sources. Use special care to avoid static electric charges. Use personal

protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary

and unprotected personnel.

6.2. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

For containment : Stop leak, if possible without risk. Move containers from spill area. Use only non-sparking tools.

Use explosion-proof equipment. Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter

waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for cleaning up : Scoop up material and place in a disposal container. Provide ventilation.

6.3. REFERENCE TO OTHER SECTIONS

See section 8 for further information on protective clothing and equipment and section 13 for advice on waste disposal.

03/18/2016 EN (English US) 2/6 **76**



Prepared according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

SECTION 7: HANDLING AND STORAGE

7.1. PRECAUTIONS FOR SAFE HANDLING

Additional hazards when processed

: Hazardous waste due to potential risk of explosion. Pressurized container: Do not pierce or

burn, even after use. Keep away from sources of ignition - No smoking.

Precautions for safe handling

: Do not spray on an open flame or other ignition source. Use non-sparking tools. Use explosionproof equipment. Take precautionary measures against static discharge. Avoid breathing dust/fume/gas/ mist/vapors/spray. Avoid contact with skin and eyes. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke. Use only outdoors or in a well-ventilated area.

Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking. Hygiene measures

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES 7.2

Technical measures

: Proper grounding procedures to avoid static electricity should be followed.

Storage conditions

: Keep locked up and out of reach of children. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatibles. Do not expose to

temperatures exceeding 50 °C/ 122 °F. Keep in fireproof place.

SPECIFIC END USE(S) 7.3

Not available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL PARAMETERS 8.1.

| Isopropyl alcohol (67-63-0) | | |
|-----------------------------|--------------------------|--------------------|
| ACGIH | ACGIH TWA (ppm) | 200 ppm |
| ACGIH | ACGIH STEL (ppm) | 400 ppm |
| OSHA | OSHA PEL (TWA) (mg/m³) | 980 mg/m³ |
| OSHA | OSHA PEL (TWA) (ppm) | 400 ppm |
| USA - IDLH | US IDLH (ppm) | 2000 ppm (10% LEL) |
| USA - NIOSH | NIOSH REL (TWA) (mg/m³) | 980 mg/m³ |
| USA - NIOSH | NIOSH REL (TWA) (ppm) | 400 ppm |
| USA - NIOSH | NIOSH REL (STEL) (mg/m³) | 1225 mg/m³ |
| USA - NIOSH | NIOSH REL (STEL) (ppm) | 500 ppm |

| Petroleum gases, liquefied, sweetened (68476-86-8) | | |
|--|----------------------|----------|
| ACGIH | ACGIH STEL (ppm) | 1000 ppm |
| OSHA | OSHA PEL (TWA) (ppm) | 1000 ppm |

| Acetone (67-64-1) | | |
|-------------------|-------------------------|--------------------|
| ACGIH | ACGIH TWA (mg/m³) | 1188 mg/m³/8h |
| ACGIH | ACGIH TWA (ppm) | 500 ppm/8h |
| ACGIH | ACGIH STEL (mg/m³) | 1782 mg/m³/15min |
| ACGIH | ACGIH STEL (ppm) | 750 ppm/15min |
| OSHA | OSHA PEL (TWA) (mg/m³) | 2400 mg/m³ |
| OSHA | OSHA PEL (TWA) (ppm) | 1000 ppm |
| USA - IDLH | US IDLH (ppm) | 2500 ppm (10% LEL) |
| USA - NIOSH | NIOSH REL (TWA) (mg/m³) | 590 mg/m³/10h |
| USA - NIOSH | NIOSH REL (TWA) (ppm) | 250 ppm/10h |

EXPOSURE CONTROLS 8.2.

Appropriate engineering controls : Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below

recommended exposure limits.

Hand protection : Wear chemically resistant protective gloves.

Eye protection : Safety glasses with side-shields. Skin and body protection : Wear suitable protective clothing.

: In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection Respiratory protection

must be based on known or anticipated exposure levels, the hazards of the product and the

safe working limits of the selected respirator.

Environmental exposure controls : Maintain levels below Community environmental protection thresholds.

Other information Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices.

03/18/2016 EN (English US) 77



Prepared according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Physical state : Gas/Pressurized Liquid

Appearance : No data available.

Color : White Odor : Alcohol

Odor threshold : No data available

pH : Neutral

Melting point : No data available
Freezing point : No data available
Boiling point : No data available
Flash point : Not applicable
Relative evaporation rate (butyl acetate=1) : No data available
Flammability (solid, gas) : Flammable

Explosion limits : No data available

Explosive properties : Pressurised container: May burst if heated.

Oxidizing properties : No data available Vapor pressure : No data available Relative density : No data available Relative vapor density at 20 °C : No data available : No data available Solubility Partition coefficient: n-octanol/water : No data available Auto-ignition temperature : No data available Decomposition temperature : No data available Viscosity : No data available Viscosity, kinematic : No data available Viscosity, dynamic : No data available

9.2. OTHER INFORMATION

VOC content : 765.06 g/l
VOC minus exempt solvents : 655.18 g/l
Heat of combustion : 13 285 Btu/lb

SECTION 10: STABILITY AND REACTIVITY

10.1. REACTIVITY

No dangerous reaction known under conditions of normal use.

10.2. CHEMICAL STABILITY

Extremely flammable aerosol. Contents under pressure. Container may explode if heated. Do not puncture. Do not burn. Extreme risk of explosion by shock, friction, fire or other sources of ignition.

10.3. POSSIBILITY OF HAZARDOUS REACTIONS

No dangerous reaction known under conditions of normal use.

10.4. CONDITIONS TO AVOID

Sources of ignition. Heat. Incompatible materials.

10.5. INCOMPATIBLE MATERIALS

Strong oxidizing agents, aldehydes, halogenated hydrocarbons, halogens, strong acids.

10.6. HAZARDOUS DECOMPOSITION PRODUCTS

May include, and are not limited to: oxides of carbon, oxides of nitrogen, oxides of sulfur.

03/18/2016 EN (English US) 4/6 **78**



Prepared according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. INFORMATION ON TOXICOLOGICAL EFFECTS

Acute toxicity : Not classified

| SKD-S2 Aerosol | |
|--|---|
| LD50 oral rat | > 2000 mg/kg |
| LD50 dermal rabbit | > 2000 mg/kg |
| LC50 inhalation rat | > 5 mg/l/4h |
| Isopropyl alcohol (67-63-0) | |
| LD50 oral rat | 5840 mg/kg |
| LD50 dermal rabbit | > 12800 mg/kg |
| LC50 inhalation rat | > 10000 ppm/6h |
| Acetone (67-64-1) | |
| LD50 oral rat | 5800 mg/kg |
| LC50 inhalation rat | 76 mg/l/4h (female) |
| LC50 inhalation rat | 132 mg/l/3h (male) |
| Skin corrosion/irritation | : Based on available data, the classification criteria are not met. |
| Serious eye damage/irritation | : Causes serious eye irritation. |
| Respiratory or skin sensitization | : Based on available data, the classification criteria are not met. |
| Germ cell mutagenicity | : Based on available data, the classification criteria are not met. |
| Carcinogenicity | : Based on available data, the classification criteria are not met. |
| Isopropyl alcohol (67-63-0) | |
| IARC group | 3 - Not classifiable |
| Reproductive toxicity | : Based on available data, the classification criteria are not met. |
| Specific target organ toxicity (single exposure) | : May cause drowsiness or dizziness. |
| Specific target organ toxicity (repeated exposure) | : Based on available data, the classification criteria are not met. |
| Aspiration hazard | : Based on available data, the classification criteria are not met. |
| Symptoms/injuries after inhalation | : May cause drowsiness or dizziness. May cause respiratory tract irritation. May displace oxygen and cause rapid suffocation. May cause cardiac arrhythmia. |
| Symptoms/injuries after skin contact | : May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin. |
| Symptoms/injuries after eye contact | : Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. |
| Symptoms/injuries after ingestion | : May be harmful if swallowed. May cause stomach distress, nausea or vomiting. |

SECTION 12: ECOLOGICAL INFORMATION

12.1. TOXICITY

Ecology - general : May cause long-term adverse effects in the aquatic environment.

12.2. PERSISTENCE AND DEGRADABILITY

| SKD-S2 Aerosol | |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |

12.3. BIOACCUMULATIVE POTENTIAL

| SKD-S2 Aerosol | |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |

12.4. MOBILITY IN SOIL

No additional information available.

12.5. OTHER ADVERSE EFFECTS

Effect on the global warming : No known ecological damage caused by this product.

03/18/2016 EN (English US) 5/6 79



Prepared according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. WASTE TREATMENT METHODS

Waste disposal recommendations : This material must be disposed of in accordance with all local, state, provincial, and federal

regulations. The generation of waste should be avoided or minimized wherever possible.

Additional information : Flammable vapors may accumulate in the container. Pressurized container: Do not pierce or

burn, even after use.

SECTION 14: TRANSPORT INFORMATION

In accordance with DOT/TDG/IATA/IMDG

DOT Ground : Consumables, Limited Quantity

TDG : Consumables, Limited Quantity

IATA : UN 1950, Aerosols, Flammable, 2.1

IMDG : UN 1950, Aerosols, 2.1 (Limited Quantity)

ADDITIONAL INFORMATION

Other information : No supplementary information available.

Special transport precautions : Do not handle until all safety precautions have been read and understood.

SECTION 15: REGULATORY INFORMATION

15.1. FEDERAL REGULATIONS

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories except:

Chlorite-group minerals CAS No 1318-59-8

| Isopropyl alcohol (67-63-0) | | |
|---|---|--|
| Subject to reporting requirements of United States SARA Section 313 | | |
| EPA TSCA Regulatory Flag | T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA | |
| SARA Section 313 - Emission Reporting | 1.0 % | |

Acetone (67-64-1)

EPA TSCA Regulatory Flag

T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA

NFPA health hazard : 2
NFPA fire hazard : 4
NFPA reactivity : 0



15.3. US STATE REGULATIONS

| SKD-S2 Aerosol | |
|----------------------------|--|
| State or local regulations | This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm |

SECTION 16: OTHER INFORMATION

Date of issue : 03/18/2016
Revision date : 03/18/2016
Other information : None.

Disclaimer: We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. 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. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.

03/18/2016 EN (English US) 6/6 **80**



Safety Data Sheet

Prepared according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Date of issue: 10/31/2018 Revision date: 10/31/2018 Version: 1.0

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. PRODUCT IDENTIFIER

Product form : Mixture

Product name : SPOTCHECK ® SKL-SP2 - aerosol

Vaporizer : Aerosol

1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

1.2.1. Relevant identified uses

Main use category : Industrial use

Use of the substance/mixture : Non-Destructive Testing.

1.2.2. Uses advised against No additional information available

1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Manufacturer

Magnaflux® (A Division of ITW Ltd)

Faraday Road, South Dorcan Industrial Estate

SN3 5HE Swindon - UK

T +44 (0)1793 524566 - F +44 (0)1793 490459

support.eu@magnaflux.com - www.eu.magnaflux.com

1.4. EMERGENCY TELEPHONE NUMBER

Emergency number : DURING OFFICE HOURS, CALL T: +44 (0)1793 524566 (English only) [Office hours (GMT)

Monday - Thursday 8am - 5pm, Friday 8am - 4pm]; OUT OF OFFICE HOURS, CALL T: +44(0)203 394 9866

SECTION 2: HAZARDS IDENTIFICATION

2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

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

 Aerosol 1
 H222;H229

 Skin Sens. 1
 H317

 Asp. Tox. 1
 H304

Full text of hazard classes and H-statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. LABEL ELEMENTS

Signal word (CLP)

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)







GHS02

GHS07

GHS08

: Danger

. Danger

Hazardous ingredients : Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics ; 2-Naphthalenol, 1-[2-

[2-ethyl-4-[2-(2-ethylphenyl)diazenyl]phenyl]diazenyl]-, ar-heptyl derivs

Hazard statements (CLP) : H222 - Extremely flammable aerosol.

H229 - Pressurised container: May burst if heated. H304 - May be fatal if swallowed and enters airways.

H317 - May cause an allergic skin reaction.

Precautionary statements (CLP) : 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.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P301+P310+P331 - IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT

induce vomiting.

P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

EUH-statements : EUH066 - Repeated exposure may cause skin dryness or cracking.

10/31/2018 EN (English) 1/7

81



Safety Data Sheet

82

Prepared according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Unknown acute toxicity (CLP) - SDS : 48.35% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)

88.35% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)

56.32% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Gas))
Unknown hazards to the aquatic environment:

Contains 86.37 % of components with unknown hazards to the aquatic environment

(CLP)

2.3. OTHER HAZARDS

No additional information available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. SUBSTANCES

Not applicable

3.2. MIXTURES

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--|--|---------|---|
| Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics | (CAS-No.) 869062-45-3 (EC-No.) 920-107-4 | 30 - 60 | Asp. Tox. 1, H304 |
| 1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich | (CAS-No.) 68515-48-0 (EC-No.) 271-090-9 | 5 - 10 | Aquatic Acute 1, H400 |
| 2-Naphthalenol, 1-[2-[2-ethyl-4-[2-(2-ethylphenyl)diazenyl]phenyl]diazenyl]-, ar-heptyl derivs | (CAS-No.) 1401000-07-4 (EC-No.) 825-706-3 | 1 - 5 | Skin Sens. 1, H317 Aquatic Chronic 4, H413 |

Full text of H-statements: see section 16

SECTION 4: FIRST AID MEASURES

4.1. DESCRIPTION OF FIRST AID MEASURES

First-aid measures after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for

breathing. Get medical advice/attention if you feel unwell.

First-aid measures after skin contact : IF ON SKIN: Wash with plenty of water. Take off contaminated clothing and wash it before

reuse. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

First-aid measures after ingestion : IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting.

Never give anything by mouth to an unconscious person.

4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Symptoms/effects after inhalation : May cause irritation to the respiratory tract.

Symptoms/effects after skin contact : May cause skin irritation. Repeated exposure may cause skin dryness or cracking. May cause

an allergic skin reaction.

Symptoms/effects after eye contact : May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear

production, with possible redness and swelling.

Symptoms/effects after ingestion : May be fatal if swallowed and enters airways. May be harmful if swallowed. May cause

gastrointestinal irritation, nausea, vomiting and diarrhea. May result in aspiration into the lungs,

causing chemical pneumonia.

4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

SECTION 5: FIREFIGHTING MEASURES

5.1. EXTINGUISHING MEDIA

Suitable extinguishing media : Carbon dioxide (CO2), dry chemical powder, foam. Water spray or fog.

Unsuitable extinguishing media : Do not use water jet.

5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Fire hazard : Extremely flammable aerosol. Products of combustion may include, and are not limited to:

oxides of carbon, oxides of nitrogen. Irritating fumes.

Explosion hazard : Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of

burns and injuries.

5.3. ADVICE FOR FIREFIGHTERS

Firefighting instructions : DO NOT fight fire when fire reaches explosives. Evacuate area.

Protection during firefighting : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory

protection (SCBA). Cool closed containers exposed to fire with water spray.

10/31/2018 EN (English) 2/7



Safety Data Sheet

83

Prepared according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

General measures

: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Elominate every possible source of ignition. Use only non-sparking tools. Use special care to avoid static electric charges.

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. ENVIRONMENTAL PRECAUTIONS

Prevent entry to sewers and public waters.

6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

For containment : Stop leak without risks if possible. Move containers from spill area. Use only non-sparking tools. Use explosion-proof equipment. Absorb and/or contain spill with inert material (sand,

vermiculite or other appropriate material), then place in suitable container. Do not flush into surface water or sewer system. Wear recommended personal protective equipment.

Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal. Provide ventilation.

5.4. REFERENCE TO OTHER SECTIONS

For further information refer to section 8: "Exposure controls/personal protection".

SECTION 7: HANDLING AND STORAGE

7.1. PRECAUTIONS FOR SAFE HANDLING

Additional hazards when processed : Do not pierce or burn, even after use. Keep away from sources of ignition - No smoking.

Hazardous waste due to potential risk of explosion.

Precautions for safe handling : Avoid contact with skin and eyes. Ensure adequate ventilation. Do not swallow. Handle and

open container with care. When using do not eat, drink or smoke. Do not spray on an open flame or other ignition source. Use non-sparking tools. Use explosion-proof equipment. Take

precautionary measures against static discharge.

Hygiene measures : Wash contaminated clothing before reuse. Always wash hands after handling the product.

7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Technical measures : Proper grounding procedures to avoid static electricity should be followed.

Storage conditions : Keep out of the reach of children. Store tightly closed in a dry and cool place. Keep away from

ignition sources. Keep out of direct sunlight. Do not expose to temperatures exceeding 50 °C/

122 °F. Keep in fireproof place.

Storage temperature : 10 - 30 °C

7.3. SPECIFIC END USE(S)

Not available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. CONTROL PARAMETERS

No additional information available

8.2. EXPOSURE CONTROLS

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:

Chemical resistant gloves (according to European standard NF EN 374 or equivalent)

Eye protection:

Safety glasses or goggles are recommended when using product.

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

10/31/2018 EN (English) 3/7



Safety Data Sheet

84

Prepared according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Environmental exposure controls:

Avoid release to the environment.

Other information:

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

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Physical state : Liquid
Appearance : Red Aerosol
Colour : Red

Odour : Mild hydrocarbon
Odour threshold : No data available

pH : Neutral Relative evaporation rate (butylacetate=1) : < 0.1

Melting point : No data available Freezing point : No data available

Boiling point : 230 °C

Flash point : -40 °C (aerosol propellant)

Auto-ignition temperature : > 200 °C

Decomposition temperature : No data available

Flammability (solid, gas) : No data available

Vapour pressure : < 0.5 mm Hg (@ 38°C)

Relative vapour density at 20 °C : > 1

Relative density : 0.85 g/cm3
Solubility : Negligible.

Partition coefficient n-octanol/water : 3.9 - 6 (distillates (petroleum), hydrotreated light naphthenic)

Viscosity, kinematic : 3.3 mm²/s (@ 20°C)
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : Non oxidizing.
Lower explosive limit (LEL) : 1 vol %
Upper explosive limit (UEL) : 6 vol %

9.2. OTHER INFORMATION

No additional information available

SECTION 10: STABILITY AND REACTIVITY

10.1. REACTIVITY

No dangerous reactions known under normal conditions of use.

10.2. CHEMICAL STABILITY

Extremely flammable aerosol. Extreme risk of explosion by shock, friction, fire or other sources of ignition. Contents under pressure. Container may explode if heated. Do not puncture. Do not burn.

10.3. POSSIBILITY OF HAZARDOUS REACTIONS

No dangerous reactions known under normal conditions of use.

10.4. CONDITIONS TO AVOID

Heat. Incompatible materials. Sources of ignition. Direct sunlight.

10.5. INCOMPATIBLE MATERIALS

Strong oxidizing agents. Acids. Strong alkalis.

10.6. HAZARDOUS DECOMPOSITION PRODUCTS

May include, and are not limited to: oxides of carbon, oxides of nitrogen. Irritating fumes.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. INFORMATION ON TOXICOLOGICAL EFFECTS

Acute toxicity (oral) : Not classified.

Acute toxicity (dermal) : Not classified.

Acute toxicity (inhalation) : Not classified.

10/31/2018 EN (English) 4/7



Safety Data Sheet

85

Prepared according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| 1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich (68515-48-0) | | |
|--|--|--|
| LD50 oral rat | > 10000 mg/kg | |
| LD50 dermal rabbit | > 3160 mg/kg | |
| Unknown acute toxicity (CLP) - SDS | 48.35% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral) 88.35% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal) 56.32% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Gas)) | |
| Skin corrosion/irritation | : Not classified. | |
| Additional information | : Based on available data, the classification criteria are not met. Repeated exposure may cause skin dryness or cracking. | |
| Serious eye damage/irritation | : Not classified. | |
| Additional information | : Based on available data, the classification criteria are not met. | |
| Respiratory or skin sensitisation | : May cause an allergic skin reaction. | |
| Germ cell mutagenicity | : Not classified. | |
| Additional information | : Based on available data, the classification criteria are not met. | |
| Carcinogenicity | : Not classified. | |
| Additional information | : Based on available data, the classification criteria are not met. | |
| Reproductive toxicity | : Not classified. | |
| Additional information | : Based on available data, the classification criteria are not met. | |
| STOT-single exposure | : Not classified. | |
| Additional information | : Based on available data, the classification criteria are not met. | |
| STOT-repeated exposure | : Not classified. | |
| Additional information | : Based on available data, the classification criteria are not met. | |
| Aspiration hazard | : May be fatal if swallowed and enters airways. | |
| SPOTCHECK ® SKL-SP2 - aerosol | | |

| SPOTCHECK ® SKL-SP2 - aerosol | |
|-------------------------------|--------------------|
| Vaporizer | Aerosol |
| Viscosity, kinematic | 3.3 mm²/s (@ 20°C) |

Other information : Likely routes of exposure: ingestion, inhalation, skin and eye.

SECTION 12: ECOLOGICAL INFORMATION

12.1. TOXICITY

Ecology - general : May cause long-term adverse effects in the aquatic environment.

Unknown hazards to the aquatic environment

(CLP)

: Contains 86.37 % of components with unknown hazards to the aquatic environment

Acute aquatic toxicity : Not classified.

Chronic aquatic toxicity : Not classified.

| 1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich (68515-48-0) | | |
|--|---|--|
| LC50 fish 1 | 0.42 mg/l (Exposure time: 96 h - Species: Ictalurus punctatus [flow-through]) | |
| LC50 fish 2 | > 0.16 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through]) | |
| EC50 Daphnia 1 | > 0.086 mg/l (Exposure time: 48 h - Species: Daphnia magna) | |
| EC50 96h algae (1) | > 2.8 mg/l (Species: Pseudokirchneriella subcapitata) | |

12.2. PERSISTENCE AND DEGRADABILITY

| SPOTCHECK ® SKL-SP2 - aerosol | |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |

12.3. BIOACCUMULATIVE POTENTIAL

| SPOTCHECK ® SKL-SP2 - aerosol | |
|-------------------------------|------------------|
| Bioaccumulative potential | Not established. |

12.4. MOBILITY IN SOIL

No additional information available

12.5. RESULTS OF PBT AND VPVB ASSESSMENT

No additional information available

12.6. OTHER ADVERSE EFFECTS

Additional information : No other effects known

10/31/2018 EN (English) 5/7



Safety Data Sheet

86

Prepared according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. WASTE TREATMENT METHODS

Product/Packaging disposal recommendations : This material must be disposed of in accordance with all local, state, provincial, and federal regulations. Container under pressure. Do not drill or burn even after use.

SECTION 14: TRANSPORT INFORMATION

In accordance with ADR / IATA / IMDG

14.1. UN NUMBER

UN-No. (ADR) : 1950 UN-No. (IMDG) : 1950 UN-No. (IATA) : 1950

14.2. UN PROPER SHIPPING NAME

Proper Shipping Name (ADR) : AEROSOLS, flammable.

Proper Shipping Name (IMDG) : AEROSOLS, flammable.

Proper Shipping Name (IATA) : AEROSOLS, flammable.

14.3. TRANSPORT HAZARD CLASS(ES)

ADR

Transport hazard class(es) (ADR) : 2.1

Danger labels (ADR) :

IMDG

Transport hazard class(es) (IMDG) : 2.1

IATA

Transport hazard class(es) (IATA) : 2.1

14.4. PACKING GROUP

Packing group (ADR) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable

14.5. ENVIRONMENTAL HAZARDS

Dangerous for the environment : No Marine pollutant : No

Other information : No supplementary information available.

14.6. SPECIAL PRECAUTIONS FOR USER

Special transport precautions : Do not handle until all safety precautions have been read and understood.

14.7. TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL AND THE IBC CODE

IBC code : Not applicable.

SECTION 15: REGULATORY INFORMATION

15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no REACH candidate substance.

Contains no REACH Annex XIV substances

15.1.2. National regulations

National regulations (Germany):

Wassergefahrdungklasse (water hazard class): WGK 1 – Low hazard to waters TechnischeAnleitungLuft (TA-Luft): Class 5.2.5 Organic substances, except dusts.

15.2. CHEMICAL SAFETY ASSESSMENT

No chemical safety assessment has been carried out

SECTION 16: OTHER INFORMATION

Indication of changes:

None.

10/31/2018 EN (English) 6/7



Data sources

SPOTCHECK ® SKL-SP2 - aerosol

Safety Data Sheet

87

Prepared according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE

COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending

Regulation (EC) No 1907/2006.

Other information : None.

Prepared by : Nexreg Compliance Inc.

www.Nexreg.com



Full text of H- and EUH-statements:

| Aerosol 1 | Aerosol, Category 1 | |
|-------------------|---|--|
| Aquatic Acute 1 | Hazardous to the aquatic environment — Acute Hazard, Category 1 | |
| Aquatic Chronic 4 | Hazardous to the aquatic environment — Chronic Hazard, Category 4 | |
| Asp. Tox. 1 | Aspiration hazard, Category 1 | |
| Skin Sens. 1 | Skin sensitisation, Category 1 | |
| H222 | Extremely flammable aerosol. | |
| H229 | Pressurised container: May burst if heated. | |
| H304 | May be fatal if swallowed and enters airways. | |
| H317 | May cause an allergic skin reaction. | |
| H400 | Very toxic to aquatic life. | |
| H413 | May cause long lasting harmful effects to aquatic life. | |
| EUH066 | Repeated exposure may cause skin dryness or cracking. | |

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

| Aerosol 1 | H222;H229 | Expert judgment |
|--------------|-----------|--------------------|
| Skin Sens. 1 | H317 | Calculation method |
| Asp. Tox. 1 | H304 | Calculation method |

SDS EU (REACH Annex II)_NEXREG_NEW_Magnaflux

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10/31/2018 EN (English) 7/7