

Safety Data Sheets

All

All

Bio-Safe

01/11/2022

Safety Data Sheet Index**Binder: Bio-Safe - All**

| Product Name | Manufacturer Name | Part Number | Version Date | Page |
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| 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 |
| ABC MULTI PURPOSE AGENT | BADGER POWHATAN | | 11/01/1986 | 37 |
| ANSUL ABC Multipurpose Dry Chemical Agent - Stored Pressure System | Tyco Fire Protection Products | | 02/13/2019 | 39 |
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Safety Data Sheet

587

SDS Revision Date:

08/25/2015

1. Identification

1.1. Product identifier

Product Identity 587

Alternate Names 587

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

Intended use See Technical Data Sheet.

Application Method See Technical Data Sheet.

1.3. Details of the supplier of the safety data sheet

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

Emergency

24 hour Emergency Telephone No. 310-764-0110

Customer Service: 310-764-0110

2. Hazard(s) identification

2.1. Classification of the substance or mixture

Eye Irrit. 2;H319 May cause eye irritation.

2.2. Label elements

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



Warning

H319 May cause eye irritation.

[Prevention]:

P264 Wash thoroughly after handling.

P280 Wear protective gloves / eye protection / face protection.

[Response]:

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

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

[Storage]:



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.

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

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.



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 |



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

Carcinogen Data

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

8.2. Exposure controls

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

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

9. Physical and chemical properties

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



9.2. Other information

No other relevant information.

10. Stability and reactivity

10.1. Reactivity

Hazardous Polymerization will not occur.

10.2. Chemical stability

Stable under normal circumstances.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

No data available.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

Carbon monoxide, carbon dioxide

11. Toxicological information

Acute toxicity

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

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

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



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

12. Ecological information

12.1. Toxicity

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

Aquatic Ecotoxicity

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

12.2. Persistence and degradability

There is no data available on the preparation itself.

12.3. Bioaccumulative potential

Not Measured

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects

No data available.

13. Disposal considerations

13.1. Waste treatment methods

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

14. Transport information

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



| | | | |
|---|---|---|----------------------------------|
| 14.2. UN proper shipping name | Not Regulated | Not Regulated | Not Regulated |
| 14.3. Transport hazard class(es) | DOT Hazard Class: Not Applicable | IMDG: Not Applicable Sub Class: Not Applicable | Air 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 Control Act (TSCA) | All components of this material are either listed or exempt from listing on the TSCA Inventory. | | |
| WHMIS Classification | D2B | | |
| US EPA Tier II Hazards | Fire: No | Sudden Release of Pressure: No | Reactive: No |
| | | Immediate (Acute): Yes | Delayed (Chronic): No |

EPCRA 311/312 Chemicals and RQs:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 302 Extremely Hazardous:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 313 Toxic Chemicals:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Carcinogens (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Developmental Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Female Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Male Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

New Jersey RTK Substances (>1%) :

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Pennsylvania RTK Substances (>1%) :

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

16. Other information

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



TILLMAN™
The Brand Pros Demand

Safety Data Sheet

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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

Precautionary 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 easy 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 %* | CAS # |
|------------------------------------|-----------|-------------------------|
| 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

* % 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

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.

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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:

| | <u>OSHA PEL</u> | <u>ACGIH TLV</u> |
|------------------------|---|---|
| Monoammonium phosphate | Particulates Not Otherwise Classified Total Dust- 15 mg/m ³ Respirable Fraction- 5 mg/m ³ | Particulates Not Otherwise Classified Total Dust- 10 mg/m ³ Respirable Fraction- 3 mg/m ³ |
| Barium sulfate | Particulates Not Otherwise Classified Total Dust- 15 mg/m ³ Respirable Fraction- 5 mg/m ³ | Particulates Not Otherwise Classified Total Dust- 10 mg/m ³ Respirable Fraction- 3 mg/m ³ |
| Mica | 6 mg/m ³ | 3 mg/m ³ |
| Amorphous Silica | 6 mg/m ³ | 10 mg/m ³ |
| Stannous octoate | .1 mg/m ³ | .1 mg/m ³ |
| 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

Chemical Agent

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

Apparent Density: 0.82

Solubility: The product is coated with water repellent 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.

Specific Gravity: 0.075 lb./ft³@ 70°F as vapor

Solubility: N/A

pH: N/A

Flash Point: Nonflammable

Flammability: Nonflammable

Vapor Pressure: N/A

Boiling Point: -321°F

Explosive or Oxidizing Properties: None

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 Classification- | | Harmful |
| R Phrases- | 22 36/37/38 | Harmful if swallowed Irritating to eyes, respiratory system, and skin. |
| S Phrases- | 26 36 | 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:

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 |
| Illinois | Toxic Substance List- No | Rhode Island | Hazardous Substance List- Mica dust |
| Kansas | Section 302/303 List- None | Texas | Hazardous Substance List- No |
| 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.

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):

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SAFETY DATA SHEET

ABC DRY CHEMICAL

SECTION I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION



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

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



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 EASY 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 %* | 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



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



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 |

| | | |
|------------------|---------------|---------------|
| 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



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



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



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



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



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



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:

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

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



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: www.amerex-fire.com
 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
 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):

If Pressurized: Gas Under Pressure

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 5µm; 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 315 319 335 | May be harmful if swallowed Causes skin irritation Causes serious eye irritation May cause respiratory irritation |
| Environmental | None | |
| Precautionary: | | |
| General | P101 | If medical advice is needed, have product container or label at hand |
| Prevention | P251 261 264 280 | Do not pierce or burn, even after use. Avoid breathing dust/fumes/gas/mist/vapours/spray. Wash exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. |
| Response | P312 321 362 302+352 304+340 305+351+338 332+313 342+311 337+313 | Call a doctor if you feel unwell. Specific treatment (see Section 4. First Aid Measures) Take off contaminated clothing. IF ON SKIN: Wash with plenty of water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. If skin irritation occurs: Get medical advice/attention. If experiencing respiratory symptoms: Call a doctor. 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: | Not flammable |
| Flash Point: | Not determined |
| Suitable Extinguishing Media: | Non-combustible. Use extinguishing media suitable for surrounding conditions. |
| Hazardous Combustion Products: | Carbon oxides |

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. |
| Personal Protective Equipment: | Minimum - safety glasses, gloves, and a dust 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. |
| Other: | If product is contaminated, use PPE and containment 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). |
| Conditions for Safe Storage: | Keep product in original container or extinguisher. 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-ammonium phosphate | PNOC** Total dust, 15 mg/m ³ Respirable fraction, 5 mg/m ³ | PNOC Total dust, 10 mg/m ³ Respirable fraction, 3 mg/m ³ | PNOC Total dust, 4 mg/m ³ Respirable fraction, 1.5 mg/m ³ | NA |
| Mica | 6 mg/m ³ | 3 mg/m ³ | ----- | NA |
| Attapulgite clay | PNOC** Total dust, 15 mg/m ³ Respirable fraction, 5 mg/m ³ | PNOC Total dust, 10 mg/m ³ Respirable fraction, 3 mg/m ³ | PNOC Total dust, 4 mg/m ³ Respirable fraction, 1.5 mg/m ³ | |
| Silicone oil | NR** | NR | | |
| Calcium carbonate | PNOC Total dust, 15 mg/m ³ Respirable fraction, 5 mg/m ³ | PNOC Total dust, 10 mg/m ³ Respirable fraction, 3 mg/m ³ | ----- | NA |
| Amorphous silica | 20mppcf 80 mg/m ³ or % SiO ₂ | 10 mg/m ³ | 4 mg/m ³ | NA |
| Yellow 14 pigment | NR | NR | NR | NA |

*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

Personal Protective Equipment – PPE Code E:

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: | NH ₄ H ₂ PO ₄ : 115.03 |
| Odor: | Odorless |
| Odor Threshold: | No information available |
| Decomposition Temperature °C: | 100 - 120 |
| Freezing Point °C: | No information available |
| Initial Boiling Point °C: | No information available |
| Physical State: | Crystalline Powder |
| pH: | Approximately 4.4 to 4.9 |
| Flash Point °C: | None |
| Autoignition Temperature °C: | None |
| Boiling Point/Range °C: | No information available |
| Melting Point/Range °C: | NH ₄ H ₂ PO ₄ : 190 |
| Flammability/Explosion Limits in Air °C: | Upper – None; Lower-None |
| Explosive Properties: | None |
| Oxidizing Properties: | None |
| Volatile Component (%vol) | Not applicable |
| Evaporation Rate: | No information available |
| Vapor Density: | No information available |
| Vapor Pressure: | NH ₄ H ₂ PO ₄ : 1.41 mm/Hg |
| Specific gravity at 25 °C: | NH ₄ H ₂ PO ₄ : 1.80 |
| Solubility: | 40.4 g/100 ml |
| Partition Coefficient: | NH ₄ H ₂ PO ₄ 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 | Carcinogenicity | Reproductive | 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: | NH ₄ H ₂ PO ₄ Est: 0.693 (Rapid); (NH ₄) ₂ SO ₄ : Est: 0.684 (Rapid) |
| Anaerobic biodegradation probability: | NH ₄ H ₂ PO ₄ Est: 0.398 (Slow); (NH ₄) ₂ SO ₄ : Est: 0.398 (Slow) |
| Bioaccumulation potential: | Low. |
| Bioconcentration factor: | NH ₄ H ₂ PO ₄ : 3.16 L/kg (wet weight) (Low BCF) |
| Bioaccumulation factor: | NH ₄ H ₂ PO ₄ : 63.04 L/kg (wet weight) |
| Mobility in soil: | Slow evaporation rate; water soluble, may leach to groundwater |
| Log Koc: | NH ₄ H ₂ PO ₄ Est: -1.25 |
| Log Koa: | NH ₄ H ₂ PO ₄ Est: 16.72 |
| Log Kaw: | NH ₄ H ₂ PO ₄ Est: -20.86 |
| NOTE: NH ₄ H ₂ PO ₄ – 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; 9.4e+06 mg/l Daphnid 48 hr; | 6.70e+05 mg/L Gr. Algae 96 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: NA
 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

| 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 |
| Attapulgitte 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 |
| | 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:

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

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.

BADGER POWHATAN -- MULTI-PURPOSE AMMONIUM PHOSPHATE ABC -- 6850-00F004269

=====
Product Identification
=====

Product ID: MULTI-PURPOSE AMMONIUM PHOSPHATE ABC
MSDS Date: 11/01/1986
FSC: 6850
NIIN: 00F004269
MSDS Number: BBPWQ
=== Responsible Party ===
Company Name: BADGER POWHATAN
Address: RT. 29 NORTH
Box: 7146
City: CHARLOTTEVILLE
State: VA
ZIP: 22906
Info Phone Num: (804) 973-4361
Emergency Phone Num: (804) 973-4361
CAGE: BADGE

=====
Contractor Identification
=====

Company Name: BADGER POWHATAN
Address: RT 29 NORTH
Box: 7146
City: CHARLOTTEVILLE
State: VA
ZIP: 22906
Country: US
Phone: 804-973-4361
CAGE: BADGE

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

Ingred Name: MICA - SILICATES (< 1% CRYSTALLINE SILICA)
CAS: 12001-26-2
RTECS #: VV8760000
Fraction by Wt: <5%
OSHA PEL: 20 MPPCF
ACGIH TLV: 3 MG/M3 RDUST; 9293

Ingred Name: MONOAMMONIUM PHOSPHATE
CAS: 7784-30-7
RTECS #: TB6450000

=====
Hazards Identification
=====

Routes of Entry: Inhalation: YES Skin: YES Ingestion: NO
Reports of Carcinogenicity: NTP: NO IARC: NO OSHA: NO
Health Hazards Acute and Chronic: INHALATION: MAY CAUSE TRANSIENT COUGH,
IRRITATION OF AIRWAYS, SHORTNESS OF BREATH, PNEUMONCONIOSIS, ASTHMA,
BRONCHITIS, & OTHER RESPIRATORY ILLNESSES. SKIN; MILDLY IRRITATING.
Explanation of Carcinogenicity: NONE
Effects of Overexposure: INHALATION; TREAT AS A MINERAL DUST, TRANSIENT
COUGHT, IRRITATION OF AIRWAYS, SHORTNESS OF BREATH,
PNEUMONCONIOSIS, ASTHMA, BRONCHITIS, & OTHER RESPIRATORY ILLNESSES

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

First Aid: INHALATION: MVOE VICTIM TO FRESH AIR. SKIN; WASH AFFECTED
AREA W/SOAP & WATER. EYES: FLUSH W/LARGE AMOUNTS OF WATER FOR AT
LEAST 15 MINUTES. SEEK MED ATTN.

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

Flash Point: NON-COMBUSTIBLE
Extinguishing Media: THIS MATERIAL IS A FIRE EXTINGUISHING AGENT.

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

Spill Release Procedures: SWEEP UP. STORE IN COVERED CONTAINERS. DON'T

REUSE.

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

Handling and Storage Precautions:SHOULD BE STORED IN ORIGINAL CONTAINER OR IN SEALED EXTINGUISHERS. STORE EXTINGUISHER SECURELY.
Other Precautions:DON'T MIX AGENTS. DON'T EXPOSE CYLINDER TO SEVERE PHYSICAL IMPACT OR DIRECT HEAT. DON'T OVER-PRESSURIZE CYLINDERS.

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

Respiratory Protection:DUST RESPIRATOR APPROVED BY NIOSH/MSA SCHEDULE TC-21-C
Ventilation:MECHANICAL: RECOMMENDED
Protective Gloves:RUBBER
Eye Protection:SAFETY GLASSES
Supplemental Safety and Health

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

Melt/Freeze Pt:M.P/F.P Text:374F
Spec Gravity:1.80
Solubility in Water:SLIGHT
Appearance and Odor:YELLOW POWDER W/NO APPRECIABLE ODOR.

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

Stability Indicator/Materials to Avoid:YES
DON'T MIX W/DIFFERENT TYPES OF DRY CHEMICAL EXTINGUISHING AGENTS
Hazardous Decomposition Products:AMMONIA

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

Waste Disposal Methods:IN ACCORDANCE W/LOCAL, STATE, & FEDERAL REGULATIONS FOR AN INERT NON-METALLIC POWDER.

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Safety Data Sheet

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

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

1. Identification

1.1. Product Identifier

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

1.2. Other means of identification

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

1.3. Recommended use of the chemical and restrictions on use

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

1.4. Details of the Supplier of the Safety Data Sheet

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

1.5. Emergency Telephone Number

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

2. Hazards Identification

Classification

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

Simple asphyxiants
Gases Under Pressure - Compressed Gas

2.2. Label Elements

Signal Word

WARNING

Hazard Statements

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





Product code 435028

/ Product name ANSUL ABC /
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Stored Pressure System

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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-% |
|-------------------|------------|----------|
| Attapulgate | 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.



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5.2. Unsuitable Extinguishing Media

None.

5.3. Specific Hazards Arising from the Chemical

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

5.4. Explosion Data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

5.5. Protective Equipment and Precautions for Firefighters

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

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

OTHER INFORMATION Ventilate the area.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental Precautions

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

6.3. Methods and material for containment and cleaning up

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

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

7. Handling and Storage

7.1. Precautions for Safe Handling

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

7.2. Conditions for safe storage, including any incompatibilities

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



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

Incompatible Materials Strong acids.

8. Exposure Controls/Personal Protection

8.1. Control Parameters

Exposure guidelines

| Chemical name | ACGIH TLV | OSHA PEL | NIOSH IDLH | Mexico OEL |
|-------------------------------|---|----------|---|------------|
| Attapulgit 12174-11-7 | TWA: 1 mg/m ³ respirable particulate matter | - | - | - |
| Calcium carbonate 471-34-1 | - | - | TWA: 10 mg/m ³ total dust TWA: 5 mg/m ³ 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 Protection No special precautions are needed in handling this material.

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

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

8.4. General hygiene considerations

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

9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

| | | | |
|-----------------------|-------------------|--------------|--------|
| Physical State | powder | Color | Yellow |
| Odor | odorless | | |
| 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 | |



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

10. Stability and Reactivity

10.1. Chemical Stability

Stable under recommended storage conditions.

10.2. Reactivity

No data available

10.3. Possibility of hazardous reactions

Hazardous polymerization does not occur.

| | |
|---------------------------------|--|
| Hazardous Polymerization | Hazardous polymerization does not occur. |
|---------------------------------|--|

10.4. Conditions to Avoid

None known based on information supplied.

10.5. Incompatible Materials

Strong acids.

10.6. Hazardous decomposition products

Carbon oxides. Nitrogen oxides (NO_x).

11. Toxicological Information

11.1. Information on Likely Routes of Exposure

Product information

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

Component Information

Acute Toxicity



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

11.2. Information on Toxicological Effects

Symptoms No information available.

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

Carcinogenicity Attapulgit (palygorskite fibers) is a hydrated magnesium aluminum silicate. Long palygorskite (attapulgit) fibers (>5 micrometers) are possibly carcinogenic to humans (Group 2B). Short palygorskite (attapulgit) fibers (<5 micrometers) cannot be classified as to their carcinogenicity to humans (Group 3). The attapulgit 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 |
|--------------------------|-------|---------|-----|------|
| Attapulgit 12174-11-7 | - | Group 3 | - | X |

IARC (International Agency for Research on Cancer)

Group 3 - Not Classifiable as to Carcinogenicity in Humans

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

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

11.4. Numerical Measures of Toxicity - Product information

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

ATEmix (dermal) 8156 mg/kg

12. Ecological Information

12.1. Ecotoxicity

Not classified.

| Chemical name | Algae/aquatic plants | Fish | Crustacea |
|--|-----------------------|--|---|
| Ammonium sulfate, technical 7783-20-2 | - | LC50 96 h 460 - 1000 mg/L Leuciscus idus static; LC50 96 h 123 - 128 mg/L Poecilia reticulata 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 | LC50 48 h = 14 mg/L Daphnia magna; EC50 24 h = 423 mg/L Daphnia magna |
| Silicic Acid/silica gel, Amorphous | EC50 (72h) = 440 mg/L | LC50 (96h) static = 5000 mg/L | EC50 (48h) = 7600 mg/L |



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

12.2. Persistence and Degradability

No information available.

12.3. Bioaccumulation

No information available.

12.4. Other Adverse Effects

No information available

13. Disposal Considerations

13.1. Waste Treatment Methods

Disposal of wastes

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

Contaminated Packaging

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

14. Transport Information

DOT

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

TDG

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

MEX

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

ICAO (air)

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



Product code 435028

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

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Proper Shipping Name Fire extinguishers
Hazard class 2.2
Special Provisions A19

IATA

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

IMDG

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

15. Regulatory Information

15.1. International Inventories

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

Legend:

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

15.2. US Federal Regulations

SARA 313

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

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

SARA 311/312 Hazard Categories

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



Product code 435028

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

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

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



Safety Data Sheet

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

Product name FORAY® ABC Multi-Purpose Dry Chemical

1. Identification

1.1. Product Identifier

Product name FORAY® ABC Multi-Purpose Dry Chemical

1.2. Other means of identification

Product code 078611
Synonyms None
Chemical Family No information available

1.3. Recommended use of the chemical and restrictions on use

Recommended use Fire extinguishing agent.
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 product is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

2.2. Label Elements

Hazard Statements

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

Precautionary Statements

2.3. Hazards Not Otherwise Classified (HNOC)

Not Applicable.

2.4. Other Information

Unknown Acute Toxicity 98.05749% of the mixture consists of ingredient(s) of unknown toxicity



Product code 078611

Product name FORAY® ABC
Multi-Purpose Dry Chemical

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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-% |
|---------------|------------|----------|
| Attapulgate | 12174-11-7 | 1 - 5 |
| Mica | 12001-26-2 | 1 - 5 |

4. First aid measures

4.1. Description of first aid measures

| | |
|---------------------|--|
| 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 | Wash skin with soap and water. Get medical attention if irritation develops and persists. |
| Inhalation | If experiencing respiratory symptoms: Call a POISON CENTER or doctor. |
| Ingestion | If swallowed. Call a POISON CENTER or doctor/physician if you feel unwell. |

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 Treat symptomatically.

5. Fire-fighting measures

5.1. Suitable Extinguishing Media

Product is extinguishing agent. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2. Unsuitable Extinguishing Media

None.

5.3. Specific Hazards Arising from the Chemical

None in particular.

5.4. Explosion Data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

5.5. Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental release measures



6.1. Personal precautions, protective equipment and emergency procedures

- Personal Precautions** Provide adequate ventilation. Avoid creating dust. Avoid breathing dust/fume/gas/mist/vapors/spray.
- For emergency responders** Use personal protection recommended in Section 8.

6.2. Environmental Precautions

- Environmental Precautions** Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

- Methods for Containment** Stop leak if you can do it without risk. If sweeping of a contaminated area is necessary use a dust suppressing agent which does not react with product. Dike far ahead of spill; use dry sand to contain the flow of material. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.
- Methods for Cleaning Up** Following product recovery, flush area with water.

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.
- 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 12174-11-7 | TWA: 1 mg/m ³ respirable particulate matter | - | - | - |
| Mica 12001-26-2 | TWA: 3 mg/m ³ respirable particulate matter | TWA: 20 mppcf <1% Crystalline silica | IDLH: 1500 mg/m ³ TWA: 3 mg/m ³ containing <1% Quartz respirable dust | TWA 3 mg/m ³ (VLE-PPT) |

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

8.2. Appropriate Engineering Controls

- Engineering controls** Showers



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/ Product name FORAY® ABC /
Multi-Purpose Dry Chemical

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Eyewash stations
Ventilation systems.

8.3. Individual protection measures, such as personal protective equipment

| | |
|---------------------------------|--|
| Eye/Face Protection | Avoid contact with eyes. Tight sealing safety goggles. |
| Skin and Body Protection | No special precautions are needed in handling this material. |
| Respiratory Protection | In case of insufficient ventilation, wear suitable respiratory equipment. |
| Ventilation | Use local exhaust or general dilution ventilation to control exposure with applicable limits |

8.4. General hygiene considerations

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

9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

| | | | |
|-----------------------|-------------------|--------------|--------|
| Physical State | powder | Color | Yellow |
| Odor | odorless | | |
| 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 | |
| Vapor Pressure | No data available | |
| Vapor Density | No data available | |
| Specific gravity | No data available | |
| Water Solubility | No data available | |
| Solubility in Other Solvents | No data available | |
| Partition coefficient | No data available | |
| Autoignition Temperature | No data available | |
| Decomposition Temperature | No data available | |
| Kinematic viscosity | No data available | |

10. Stability and Reactivity

10.1. Chemical Stability

Stable under recommended storage conditions.

10.2. Reactivity

No data available



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Product name FORAY® ABC
Multi-Purpose Dry Chemical

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10.3. Possibility of hazardous reactions

None under normal processing.

Hazardous Polymerization Hazardous polymerization does not occur.

10.4. Conditions to Avoid

Extremes of temperature and direct sunlight.

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.
Eye Contact May cause irritation.
Skin contact May cause irritation.
Ingestion Ingestion may cause irritation to mucous membranes.

Acute Toxicity

11.2. Information on Toxicological Effects

Symptoms No information available.

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

Skin Corrosion/Irritation No information available.
Serious eye damage/eye irritation No information available.
Sensitization No information available.
Germ Cell Mutagenicity No information available.
Carcinogenicity Attapulгите (palygorskite fibers) is a hydrated magnesium aluminum silicate. Long palygorskite (attapulгите) fibers (>5 micrometers) are possibly carcinogenic to humans (Group 2B). Short palygorskite (attapulгите) fibers (<5 micrometers) cannot be classified as to their carcinogenicity to humans (Group 3). The attapulгите present in this product contains fibers 0.5-2.5 um range, so would be considered by IARC as Group 3.

| Chemical name | ACGIH | IARC | NTP | OSHA |
|---------------------------|-------|---------|-----|------|
| Attapulгите 12174-11-7 | - | Group 3 | - | X |

ACGIH (American Conference of Governmental Industrial Hygienists)
A2 - Suspected Human Carcinogen
IARC (International Agency for Research on Cancer)
Not classifiable as a human carcinogen
Group 1 - Carcinogenic to Humans



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NTP (National Toxicology Program)
Known - Known Carcinogen
OSHA (Occupational Safety and Health Administration of the US Department of Labor)
X - Present

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

11.4. Numerical Measures of Toxicity - Product information

The following values are calculated based on chapter 3.1 of the GHS document
ATEmix (dermal) 8144 mg/kg

12. Ecological Information

12.1. Ecotoxicity

Not classified.

0.02% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Table with 4 columns: Chemical name, Algae/aquatic plants, Fish, Crustacea. It lists toxicity data for Ammonium sulfate and Silicic Acid/silica gel.

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



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Multi-Purpose Dry Chemical

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13.1. Waste Treatment Methods

Disposal of wastes

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

Contaminated Packaging

Do not reuse container.

14. Transport Information

| | |
|-------------------|---------------|
| <u>DOT</u> | NOT REGULATED |
| <u>TDG</u> | NOT REGULATED |
| <u>MEX</u> | NOT REGULATED |
| <u>ICAO (air)</u> | NOT REGULATED |
| <u>IATA</u> | NOT REGULATED |
| <u>IMDG</u> | NOT REGULATED |

15. Regulatory Information

15.1. International Inventories

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

Legend:

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

15.2. US Federal Regulations

SARA 313

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

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

SARA 311/312 Hazard Categories

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



Product code 078611

/ Product name FORAY® ABC /
Multi-Purpose Dry Chemical

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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 |
| Quartz - 14808-60-7 | Carcinogen |

U.S. State Right-to-Know Regulations

| Chemical name | New Jersey | Massachusetts | Pennsylvania |
|---|------------|---------------|--------------|
| Mica 12001-26-2 | X | X | X |
| Silicic Acid/silica gel, Amorphous 7631-86-9 | - | X | X |
| Quartz 14808-60-7 | X | X | X |

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

| | | | | |
|-------------|------------------|----------------|--------------------|---|
| NFPA | Health Hazards 0 | Flammability 0 | Instability 0 | Physical and chemical properties - Personal Protection X |
| HMIS | Health Hazards 0 | Flammability 0 | Physical Hazards 0 | |

Revision date 20-Feb-2017

Revision note No information available.

Disclaimer

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

End of Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

| | | |
|---------------------------------------|---|---------------------------------------|
| Product Name: | Jasco Acetone | |
| Company Name: | W. M. Barr 2105 Channel Avenue Memphis, TN 38113 | Phone Number: (901)775-0100 |
| Web site address: | www.wmbarr.com | |
| Emergency Contact Information: | 3E 24 Hour Emergency Contact W.M. Barr Customer Service | (800)451-8346 (800)398-3892 |
| Intended Use: | Paint, stain, and varnish thinning. | |
| Synonyms: | GJAC100, QJAC104 | |
| Additional Information | This product is regulated by the United States Consumer Product Safety Commission and is subject to certain labeling requirements under the Federal Hazardous Substances Act. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS). The product label also includes other important information, including directions for use, and should always be read in its entirety prior to using the product. | |

2. HAZARDS IDENTIFICATION

Flammable Liquids, Category 2
Serious Eye Damage/Eye Irritation, Category 2
Specific Target Organ Toxicity (single exposure), Category 3



| | |
|---------------------------------|--|
| GHS Signal Word: | Danger |
| GHS Hazard Phrases: | H225: Highly flammable liquid and vapor. H319: Causes serious eye irritation. H335: May cause respiratory irritation. H336: May cause drowsiness or dizziness. |
| GHS Precaution Phrases: | P233: Keep container tightly closed. P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P280: Wear protective gloves/protective clothing/eye protection/face protection. P240: Ground/bond container and receiving equipment. P241: Use explosion-proof electrical/ventilating/lighting equipment. P243: Take precautionary measures against static discharge. P242: Use only non-sparking tools. P264: Wash hands thoroughly after handling. P261: Avoid breathing gas/mist/vapours/spray. P271: Use only outdoors or in a well-ventilated area. |
| GHS Response Phrases: | P370+378: In case of fire, use dry chemical to extinguish. P303+361+353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. 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. P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P312: Call a POISON CENTER/doctor if you feel unwell. |
| GHS Storage and Disposal | P403+235: Store in cool/well-ventilated place. |

Jasco Acetone

Printed: 04/17/2015

Revision: 04/17/2015

Supersedes Revision: 03/26/2015

| | | | | | | | | | | | | | |
|---|---|--------|---|---|--------------|--|---|----------|--|---|-----|--|---|
| Phrases: | P501: Dispose of contents/container according to local, state and federal regulations. P403+233: Store container tightly closed in well-ventilated place - if product is as volatile as to generate hazardous atmosphere. P405: Store locked up. | | | | | | | | | | | | |
| Hazard Rating System: | <table border="1"> <tr> <td>HEALTH</td> <td>*</td> <td>2</td> </tr> <tr> <td>FLAMMABILITY</td> <td></td> <td>3</td> </tr> <tr> <td>PHYSICAL</td> <td></td> <td>0</td> </tr> <tr> <td>PPE</td> <td></td> <td>X</td> </tr> </table> | HEALTH | * | 2 | FLAMMABILITY | | 3 | PHYSICAL | | 0 | PPE | | X |
| HEALTH | * | 2 | | | | | | | | | | | |
| FLAMMABILITY | | 3 | | | | | | | | | | | |
| PHYSICAL | | 0 | | | | | | | | | | | |
| PPE | | X | | | | | | | | | | | |
| HMIS: | | | | | | | | | | | | | |
| OSHA Regulatory Status: | This material is classified as hazardous under OSHA regulations. | | | | | | | | | | | | |
| Potential Health Effects (Acute and Chronic): | <p>Inhalation Acute Exposure Effects: Vapor harmful. May cause dizziness, headache, watering of eyes, irritation of respiratory tract, drowsiness, nausea, and numbness in fingers, arms and legs. Inhalation of high vapor concentrations can cause central nervous system depression and narcosis. May lead to unconsciousness.</p> <p>Skin Contact Acute Exposure Effects: May cause skin irritation. Liquid is absorbed readily and can transport other toxins into the body. Prolonged or repeated skin contact with liquid may cause defatting resulting in drying, redness and possible blistering.</p> <p>Eye Contact Acute Exposure Effects: This material is an eye irritant. Causes itching, burning, redness and tearing. May cause corneal injury.</p> <p>Ingestion Acute Exposure Effects: Harmful if swallowed. Aspiration hazard if swallowed - can enter lungs and cause damage. May cause irritation of the gastrointestinal tract. May cause systemic poisoning with symptoms paralleling those of inhalation.</p> <p>Chronic Exposure Effects: Reports have associated repeated and prolonged overexposure to solvents with neurological and other physiological damage. May cause weakness, fatigue, skin irritation, and numbness in hands and feet.</p> <p>May cause target organ or system damage to the respiratory system, nervous system, kidney, blood system, and liver.</p> <p>Target Organs: Eyes, skin, respiratory system, central nervous system, heart</p> | | | | | | | | | | | | |
| Medical Conditions Generally Aggravated By Exposure: | Skin, eye, respiratory and asthma, cardiac irregularities | | | | | | | | | | | | |



3. COMPOSITION/INFORMATION ON INGREDIENTS

| CAS # | Hazardous Components (Chemical Name) | Concentration | RTECS # |
|---------|--------------------------------------|---------------|-----------|
| 67-64-1 | Acetone {2-Propanone} | 100.0 % | AL3150000 |

4. FIRST AID MEASURES

Emergency and First Aid Procedures:

Skin:

Immediately begin washing the skin thoroughly with large amounts of water and mild soap, if available, while removing contaminated clothing. Seek medical attention if irritation persists.

Eyes:

Immediately begin to flush eyes with water, remove any contact lens. Continue to flush the eyes for at least 15 minutes, then seek immediate medical attention.

Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

Ingestion:

If swallowed, do NOT induce vomiting. Seek immediate medical attention. Call a physician, hospital emergency room, or poison control center immediately. Never give anything by mouth to an unconscious person.

Signs and Symptoms Of Exposure:

Primary Routes of Exposure:

Inhalation, ingestion, and dermal.

Note to Physician:

Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

5. FIRE FIGHTING MEASURES

Flash Pt:

Class IB

0.00 F Method Used: TAG Closed Cup

Explosive Limits:

LEL: 2.5 % at 77.0 F UEL: 13.0 % at 77.0 F

Autoignition Pt:

869.00 F

Suitable Extinguishing Media: Use carbon dioxide, dry powder, or alcohol-resistant foam.

Fire Fighting Instructions:

Self-contained respiratory protection should be provided for fire fighters fighting fires in buildings or confined areas. Storage containers exposed to fire should be kept cool with water spray to prevent pressure build-up. Stay away from heads of containers that have been exposed to intense heat or flame.

Flammable Properties and Hazards:

Extremely Flammable! Vapors are heavier than air and may spread along floors. Forms or accumulates static electricity, may cause fire or explosion.

Acetone/water solutions that contain more than 2.5% acetone have flash points. When the acetone concentration is greater than 8% by weight in a closed container, it would be within the flammable range and cause fire or explosion if a source of ignition were introduced.

Do not spread this product over a large surface area because the fire and health safety risks will increase dramatically.

6. ACCIDENTAL RELEASE MEASURES

Steps To Be Taken In Case Material Is Released Or Spilled: Vapors may cause flash fire or ignite explosively.

Clean up: Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind, out of low areas, and ventilate closed spaces before entering. Shut off ignition sources; keep flares, smoking or flames out of hazard area. Use non-sparking tools. Use proper bonding and grounding methods for all equipment and processes. Keep out of waterways and bodies of water. Be cautious of vapors collecting in small enclosed spaces, sewers, low lying areas, confined spaces, etc.

Small spills: Take up with sand, earth or other noncombustible absorbent material and place in a plastic container where applicable.

Large spills: Dike far ahead of spill for later disposal.

Waste Disposal: Dispose in accordance with applicable local, state and federal regulations.

7. HANDLING AND STORAGE

Precautions To Be Taken in Handling: Read carefully all cautions and directions on product label before use. Since empty container retains residue, follow all label warnings even after container is empty. Dispose of empty container according to all regulations. Do not reuse this container.

Do not use this product near any source of heat or open flame, furnace areas, pilot lights, stoves, etc.

Do not use in small enclosed spaces, such as basements and bathrooms. Vapors can accumulate and explode if ignited.

Do not spread this product over large surface areas because fire and health safety risks will increase dramatically.

Precautions To Be Taken in Storing: Keep container tightly closed when not in use. Store in a cool, dry place. Do not store near any source of heat or flame, furnace areas, pilot lights, stoves, etc. Do not reuse this container. Use product within one year of purchasing.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| CAS # | Partial Chemical Name | OSHA TWA | ACGIH TWA | Other Limits |
|---------|-----------------------|---------------|-------------------------------|--------------|
| 67-64-1 | Acetone {2-Propanone} | PEL: 1000 ppm | TLV: 500 ppm STEL: 750 ppm | No data. |

Respiratory Equipment (Specify Type): For use in areas with inadequate ventilation or fresh air, wear a properly maintained and properly fitted NIOSH approved respirator for organic solvent vapors.

For OSHA controlled work places and other regular users - Use only with adequate ventilation under engineered air control systems designed to prevent exceeding the appropriate TLV.

A dust mask does not provide protection against vapors.

Eye Protection: Splash goggles.

SAFETY DATA SHEET

Jasco Acetone

Page: 5

Printed: 04/17/2015

Revision: 04/17/2015

Supersedes Revision: 03/26/2015

| | |
|---|---|
| Protective Gloves: | Wear gloves with as much resistance to the chemical ingredients as possible. Glove materials such as nitrile rubber, natural rubber, and neoprene may provide protection. Glove selection should be based on chemicals being used and conditions of use. Consult your glove supplier for additional information. Gloves contaminated with product should be discarded and not reused. |
| Other Protective Clothing: | Various application methods can dictate use of additional protective safety equipment, such as impermeable aprons, etc., to minimize exposure. |
| Engineering Controls (Ventilation etc.): | <p>Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.</p> <p>Use only with adequate ventilation to prevent buildup of vapors. Do not use in areas where vapors can accumulate and concentrate, such as basements, bathrooms or small enclosed areas. Whenever possible, use outdoors in an open air area. If using indoors open all windows and doors and maintain a cross ventilation of moving fresh air across the work area. If strong odor is noticed or you experience slight dizziness, headache, nausea or eye-watering -- STOP -- ventilation is inadequate. Leave area immediately and move to fresh air.</p> |
| Work/Hygienic/Maintenance Practices: | <p>Wash hands thoroughly after use and before eating, drinking, smoking, or using the restroom.</p> <p>Do not eat, drink, or smoke in the work area.</p> <p>Discard any clothing or other protective equipment that cannot be decontaminated.</p> <p>Facilities storing or handling this material should be equipped with an emergency eyewash and safety shower.</p> |

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|--|
| Physical States: | [] Gas [X] Liquid [] Solid |
| Appearance and Odor: | Clear colorless liquid with a characteristic ketone odor. Odor may be described as a sweet pungent odor. |
| Melting Point: | No data. |
| Boiling Point: | > 133.00 F |
| Autoignition Pt: | 869.00 F |
| Flash Pt: | 0.00 F Method Used: TAG Closed Cup |
| Explosive Limits: | LEL: 2.5 % at 77.0 F UEL: 13.0 % at 77.0 F |
| Specific Gravity (Water = 1): | 0.789 |
| Density: | 6.572 LB/GA at 77.0 F |
| Vapor Pressure (vs. Air or mm Hg): | 213 MM HG at 77.0 F |
| Vapor Density (vs. Air = 1): | No data. |
| Evaporation Rate: | No data. |
| Solubility in Water: | Complete |

Percent Volatile: 100.0 % by weight.

10. STABILITY AND REACTIVITY

Stability: Unstable [] Stable [X]

Conditions To Avoid - Instability: No data available.

Incompatibility - Materials To Avoid: Avoid contact with acids, aldehydes, alkalis, amines, ammonia, oxidizing agents, reducing agents, chlorine compounds.

May form explosive mixtures with chromic anhydride, chromyl alcohol, hexachloromelamine, hydrogen peroxide, permonosulfuric acid, potassium tertbutoxide, and thioglycol. Strong oxidizers.

Hazardous Decomposition Or Byproducts: Decomposition may produce carbon monoxide, carbon dioxide, and other asphyxiants.

Possibility of Hazardous Reactions: Will occur [] Will not occur [X]

Conditions To Avoid - Hazardous Reactions: No data available.

11. TOXICOLOGICAL INFORMATION

Toxicological Information: NEUROTOXICITY: Clinical studies and case reports suggest slight neurological effects, mostly of the subjective type, in individuals exposed to varying concentrations of acetone. In most studies the subjects report discomfort, irritation of the eyes and respiratory passages, mood swings, and nausea following exposure to acetone vapor at concentrations of 500 ppm or higher. The fact that the effects subside following termination of exposure indicates that acetone may be the active compound, rather than a metabolite. Case reports of accidental poisoning also indicate that the effects (e.g., lethargy and drowsiness) are short-lived.

Carcinogenicity/Other Information: CAS# 67-64-1:
Standard Draize Test, Eyes, Species: Rabbit, 20.00 MG, Severe.
Result:
Behavioral: Change in motor activity (specific assay).
Behavioral: Alteration of classical conditioning.
- American Journal of Ophthalmology., Ophthalmic Pub. Co., 435 N. Michigan Ave., Suite 1415, Chicago, IL 60611, Vol/p/yr: 29,1363, 1946
ACGIH A4 - Not Classifiable as a Human Carcinogen.

| CAS # | Hazardous Components (Chemical Name) | NTP | IARC | ACGIH | OSHA |
|---------|--------------------------------------|------|------|-------|------|
| 67-64-1 | Acetone {2-Propanone} | n.a. | n.a. | A4 | n.a. |

12. ECOLOGICAL INFORMATION

No data available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Dispose of in accordance with all applicable local, state, and federal regulations.

14. TRANSPORT INFORMATION

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Acetone

DOT Hazard Class: 3 FLAMMABLE LIQUID
UN/NA Number: UN1090 **Packing Group:** II



Additional Transport Information: The shipper/supplier may apply one of the following exceptions: Combustible Liquid, Consumer Commodity, Limited Quantity, Viscous Liquid, Does Not Sustain Combustion, or others, as allowed under 49CFR Hazmat Regulations. Please consult 49CFR Subchapter C to ensure that subsequent shipments comply with these exceptions.

15. REGULATORY INFORMATION

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

| CAS # | Hazardous Components (Chemical Name) | S. 302 (EHS) | S. 304 RQ | S. 313 (TRI) |
|---------|--------------------------------------|--------------|-------------|--------------|
| 67-64-1 | Acetone {2-Propanone} | No | Yes 5000 LB | No |

This material meets the EPA 'Hazard Categories' defined for SARA Title III Sections 311/312 as indicated:

Yes No Acute (immediate) Health Hazard
 Yes No Chronic (delayed) Health Hazard
 Yes No Fire Hazard
 Yes No Sudden Release of Pressure Hazard
 Yes No Reactive Hazard

| CAS # | Hazardous Components (Chemical Name) | Other US EPA or State Lists |
|---------|--------------------------------------|---|
| 67-64-1 | Acetone {2-Propanone} | CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory, 4 Test; CA PROP.65: No |

16. OTHER INFORMATION

Revision Date: 04/17/2015
Preparer Name: W.M. Barr EHS Department (901)775-0100

Additional Information About This Product: No data available.

Company Policy or Disclaimer: The information contained herein is presented in good faith and believed to be accurate as of the effective date shown above. This information is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. Any use of this data and information must be determined by the user to be in accordance with applicable federal, state and local laws and regulations.