

MATERIAL SAFETY DATA SHEET

IDENTITY- 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
Emergency: CHEMTREC 1.800.424.9300

Revision Date: 07/12/04

SECTION II. Hazard Identification and Emergency Overview

Emergency Overview: Product is a light yellow, fine solid powder that is odorless.

Adverse Health Effects and Symptoms: Product is a moderate irritant to the respiratory system and eyes; a mild irritant to the skin. Symptoms may include shortness of breath, coughing, and irritation to the eyes, lungs, and skin. Ingestion may cause gastric irritation, nausea, and diarrhea.

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 |
| Silica | 6 mg/m ³ | 10 mg/m ³ |
| Stannous oacetate | .1 mg/m ³ | .1 mg/m ³ |
| Silicone | Not Regulated | Not Regulated |
| Pigment | Not Regulated | Not Regulated |

Hazard Symbols:

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

SECTION III. Composition/Information on Ingredients

| | <u>Weight %*</u> | <u>CAS #</u> |
|------------------------|------------------|--------------|
| Monoammonium phosphate | 85 | 7722-76-1 |
| Barium Sulfate | 10 | 7727-43-7 |
| Mica | < 3 | 12001-26-2 |
| Silica | < 2 | 7631-86-9 |
| Stannous oacetate | < .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

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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

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.

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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 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

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): > 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.

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. Considerations for Disposal

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.

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SECTION XV. Regulatory Information

International Inventory Status: All ingredients are on the following inventories

| <u>Country</u> | <u>Agency</u> |
|----------------|---------------|
| 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 36/37/38Irritating 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 MSDS conforms to the requirements under U.S., U.K., Canadian, Australian, and EU Regulations or Standards. It conforms to the proposed 2003 ANSI Z400.1 format.

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.