



## SAFETY DATA SHEET CLASS D DRY CHEMICAL

### SECTION I. Chemical Product and Company Identification

Product Name: Class D Dry Chemical Fire Extinguishant  
Synonym: Class D Powder  
Supplier: Amerex Corporation  
Distributor: Buckeye Fire Equipment Company  
110 Kings Road  
Kings Mountain, NC 28086  
Telephone: 704.739.7415  
Web Address: [www.buckeyefire.com](http://www.buckeyefire.com)  
Email Address: [bfec@buckeyef.com](mailto:bfec@buckeyef.com)  
Recommended Use: Fire suppression, not for human or animal drug use.  
Emergency: CHEMTREC 1.800.424.9300  
Revision Date: 05/2015

### SECTION II. Hazard Identification

#### GHS – Classification:

Acute Toxicity: Category 5  
Eye Irritation: Category 2B  
Skin Irritation: Category 3

#### GHS Label Elements:

Hazard Symbols: NONE  
Signal Word: Warning

#### Hazard Statements:

H303 May be harmful if swallowed.  
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+ 313 If swallowed, drink 2-3 glasses of water and do not induce vomiting; seek medical advice.  
P302+352 If on skin, wash with soap and water  
P304+341 If inhaled, and if distress occurs, remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P305+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.  
P308 +313 If exposed or concerned, get medical advice/attention.  
P337+313 If eye irritation persists, get medical advice/attention.  
P401+402+403 Store in original container or extinguisher in a dry, well ventilated place.



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### SECTION III. Composition/Information on Ingredients

This product is a mixture.

|   | <u>Weight %*</u> | <u>CAS #</u> |
|---|------------------|--------------|
| Sodium Chloride (evaporated flour grade)            | 87               | 7647-14-5    |
| Attapulgite Clay (contains > 1% crystalline silica) | 4.2              | 12174-11-7   |
| Mica  | 4.2              | 12001-26-2   |
| Zeolite   | 2.1              | 112926-00-8  |
| Silica  | < 2              | 301-10-0     |
| Magnesium Stearate                                  | < 1              | 557-04-0     |

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

*Emergency Overview:* Product is an off-white, 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 abraded skin, shortness of breath, coughing, and irritation to the eyes, lungs, and skin. Ingestion may cause gastric irritation.

### 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-* Not known to present an ingestion hazard.

*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:* None known.

*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.

### SECTION VII. Handling and Storage

Avoid eye and respiratory 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 mix with other extinguishing agents.

### SECTION VIII. Exposure Controls and Personal Protection



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### Exposure Guidelines:

|                           | <u>OSHA PEL</u>   | <u>ACGIH TLV</u>  |
|---------------------------|---|---|
| Sodium Chloride           | Particulates Not Otherwise Classified<br>Total Dust- 15 mg/m <sup>3</sup><br>Respirable Fraction- 5 mg/m <sup>3</sup> | Particulates Not Otherwise Classified<br>Total Dust- 10 mg/m <sup>3</sup><br>Respirable Fraction- 3 mg/m <sup>3</sup> |
| Mica                      | 20 mppcf  | Respirable Fraction- 3 mg/m <sup>3</sup>  |
| Attapulgite Clay          | Particulates Not Otherwise Classified<br>Total Dust- 15 mg/m <sup>3</sup><br>Respirable Fraction- 5 mg/m <sup>3</sup> | Particulates Not Otherwise Classified<br>Total Dust- 10 mg/m <sup>3</sup><br>Respirable Fraction- 3 mg/m <sup>3</sup> |
| Mineralite (Zeolite)      | 80 mg/m <sup>3</sup> / % SiO <sub>2</sub>   | 10 mg/m <sup>3</sup>  |
| Magnesium Stearate        | Particulates Not Otherwise Classified<br>Total Dust- 15 mg/m <sup>3</sup><br>Respirable Fraction- 5 mg/m <sup>3</sup> | Particulates Not Otherwise Classified<br>Total Dust- 10 mg/m <sup>3</sup><br>Respirable Fraction- 3 mg/m <sup>3</sup> |
| Silica, Amorphous (fumed) | Particulates Not Otherwise Classified<br>Total Dust- 15 mg/m <sup>3</sup><br>Respirable Fraction- 5 mg/m <sup>3</sup> | 2 mg/m <sup>3</sup>   |

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:* Off-white powder that is odorless.

*Specific Gravity:* ~2.165

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

*pH:* Approximately 6.7-7.3 for a 10% solution.

*Physical State:* Crystalline Powder

*Flash Point:* N/A

*Flammability:* N/A

*Vapor Pressure:* < 1 mm Hg

*Boiling Point:* 695.7

*Melting Point:* 804

*Explosive or Oxidizing Properties:* None

### SECTION X. Stability and Reactivity

*Stability:* Stable

*Incompatibles:* Strong acids and strong oxidizers (such as bleach).

*Decomposition Products:* Heat of fire may release chlorine compounds and oxides of sodium.

*Hazardous Reactions:* None

### SECTION XI. Toxicological Information

*Acute Toxicity:* Sodium Chloride LD<sub>50</sub> (rat): oral, 3000mg/kg body weight.



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LD<sub>50</sub> (mouse): oral, 4000mg/kg body weight  
LDLo (rat): subcutaneous, 3500 mg/kg body weight  
LDLo (dog): intraperitoneal, 364 mg/kg body weight

Target organs in humans: None. This product is an irritant to epithelial tissue and may aggravate dermatitis. No information found of an indication that the product causes sensitization.

*Chronic Toxicity:* This product’s ingredients are not considered as probable or suspected carcinogens by OSHA, IARC, or ACGIH. Pneumoconiosis, or “Dusty Lung” disease, may result from chronic exposure to any dust.

*Reproductive Toxicity:* This product’s ingredients are not known to have any reproductive effects.

### SECTION XII. Ecological Information

*Ecotoxicity:* Negative effects are unknown.

*Degradability:* Degrades slowly in wet or humid environment.

*Bioaccumulation:* Unknown extent.

*Mobility in Soil:* Insoluble coating, poor mobility

### 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

| <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- Irritant

R Phrases- 20 Harmful by inhalation.  
36/37 Irritating to eyes, respiratory system.

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.



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### *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 SDS conforms to the requirements of the Globally Harmonized System of Classification and Labeling of Chemicals.

### 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.