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## MATERIAL SAFETY DATA SHEET IDENTITY- 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

### SECTION II. Hazard Identification and Emergency Overview

*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.

*Exposure Guidelines:*

	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Sodium Chloride	Particulates Not Otherwise Classified Total Dust- 15 mg/m <sup>3</sup> Respirable Fraction- 5 mg/m <sup>3</sup>	Particulates Not Otherwise Classified Total Dust- 10 mg/m <sup>3</sup> Respirable Fraction- 3 mg/m <sup>3</sup>
Mica	20 mppcf	Respirable Fraction- 3 mg/m <sup>3</sup>
Attapulgit Clay	Particulates Not Otherwise Classified Total Dust- 15 mg/m <sup>3</sup> Respirable Fraction- 5 mg/m <sup>3</sup>	Particulates Not Otherwise Classified Total Dust- 10 mg/m <sup>3</sup> 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 Total Dust- 15 mg/m <sup>3</sup> Respirable Fraction- 5 mg/m <sup>3</sup>	Particulates Not Otherwise Classified Total Dust- 10 mg/m <sup>3</sup> Respirable Fraction- 3 mg/m <sup>3</sup>
Silica, Amorphous (fumed)	Particulates Not Otherwise Classified Total Dust- 15 mg/m <sup>3</sup> Respirable Fraction- 5 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>

*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>
Sodium Chloride (evaporated flour grade)	87	7647-14-5
Attapulgit 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



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IDENTITY- CLASS D DRY CHEMICAL****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**

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.

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IDENTITY- CLASS D DRY CHEMICAL****SECTION IX. Physical and Chemical Properties**

*Appearance and Odor:* Off-white powder that is odorless.

*Specific Gravity:* ~1.0

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

*pH:* Approximately 7 for a 10% solution.

*Flash Point:* N/A

*Flammability:* N/A

*Vapor Pressure:* < 1 mm Hg

*Boiling Point:* N/A

*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.

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. 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.

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 hazardous material by the U.S. Department of Transportation (USDOT) and Transport Canada (TC). Packaging of the fire extinguisher shall be identified with the Proper Shipping Name (Fire Extinguisher) and the UN Identification Number (UN 1044). The USDOT hazard class/division is 2.2 Nonflammable Gas. Packing Group = N/A

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IDENTITY- CLASS D DRY CHEMICAL****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.

*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.

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