

# SAFETY DATA SHEET

# Section 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Other Identifiers: Product Code(s): Model Codes for Fire Extinguishers

Recommended Use:

Manufacturer: Internet Address: Address:

Company Telephone: E-mail Address: Emergency Contacts: Regular Dry Chemical Extinguishant Sodium Bicarbonate, SDC CH 511, CH512, CH 541 A620,403,408,409,412,447,451,453,457,459,462,468 471,477,482,489,492,496,568,574,582,721,761,782 Fire suppression of Class B and C fires Not for human or animal drug use. AMEREX CORPORATION

### www.amerex-fire.com

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Revised:

# 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 – Word(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

Page 1 of 12 Pages REGULAR POWDER crystalline silica in humans. In the case of normal use of this product, exposure to silica should be nil.

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

GHS Hazard	GHS Codes(s)	Code Phrase(s)	
Physical	H229	*-Contents under pressure; may explode if heated.	
Health	H303	May be harmful if swallowed	
	315	Causes skin irritation	
	319	Causes serious eye irritation	
	335	May cause respiratory irritation	
	373	May cause damage to organs through prolonged or repeated exposure.	
Environmental	None		
Precautionary:			
General	P101	If medical advice is needed, have product container or label at hand	
Prevention	P251	Do not pierce or burn, even after use.	
	261	Avoid breathing dust	
	264	Wash exposed skin thoroughly after handling	
	280	Wear protective gloves/protective clothing/eye protection/face protection.	
Response	P312	Call a doctor if you feel unwell.	
	321	Specific treatment (see Section 4. First Aid Measures)	
	362	Take off contaminated clothing.	
	302+352	IF ON SKIN: Wash with plenty of water	
	304+340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
	305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if	
		present and easy to do – continue rinsing.	
	342+311	If experiencing respiratory symptoms: Call a doctor.	
	332+313	If skin irritation occurs: Get medical advice/attention.	
	337+313	If eye irritation persists get medical advice/attention	
Storage	410+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.	

#### **GHS – Hazard Phrases**

\*- If under pressure

# Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	EC No.	REACH Reg. No.	CAS-No.	Weight %
Sodium bicarbonate	205-633-8	Not Available	144-55-8	>89
Attapulgite clay	601-805-5	Not Available	12174-11-7	<9
Sericite	310-127-6	Not Available	12001-26-2	<4
Potassium aluminum silicate				
Silicone oil methyl hydrogen polysiloxane	NA	Not Available	63148-57-2	<0.5

Emergency overview: Adverse health effects and symptoms: White fine powder, odorless.

Possibly a mild irritant to the respiratory system and eyes; mild irritant to the skin. Symptoms may include coughing, shortness of breath, and irritation of the lungs, eyes, and skin. Ingestion, although unlikely,

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may cause gastrointestinal irritation and edema (fluid retention).

#### Section 4. FIRST AID MEASURES Eye Exposure: Causes serious irritation. Irrigate eyes with water and repeat until pain free. Seek medical attention if irritation develops, or if vision changes occur. Skin Exposure: Causes 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 thirst, nausea, and severe diarrhea and vomiting. If victim is conscious and alert, give 2-3 glasses of water to drink. If conscious, do not induce vomiting. Seek immediate medical attention. Do not leave victim unattended. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. Medical conditions possibly aggravated by exposure: Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema, or bronchitis. Skin contact may aggravate existing skin disease. Chronic overexposure may cause pneumoconiosis ("dusty lung" disease).

# Section 5. FIRE-FIGHTING MEASURES

Flammable Properties: Flash Point: Suitable Extinguishing Media:

Hazardous Combustion Products: Explosion Data:

Sensitivity to Mechanical Impact: Sensitivity to Static Discharge: Unusual fire/explosion hazards: Not flammable Not determined Non-combustible. CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcoholresistant foam. Carbon oxides (including CO2 and CO)

Not sensitive Not sensitive In a fire this material may decompose, releasing oxides of carbon, potassium and nitrogen (see Section 10).

Protective Equipment and

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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. Ensure adequate ventilation.
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/Handling:	Keep product in original container or extinguisher. Prevent falling. Do not allow near heat sources. Contents may be under pressure – inspect extinguisher consistent with product labeling to ensure container integrity.
Incompatible Products:	Do not mix with other extinguishing agents, Incompatible with strong oxidizing agents and strong acids. Do not store in high humidity.
Hazardous Decomposition Products: Hazardous Polymerization:	Carbon and sodium oxides. Will not occur.

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# Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name	OSHA PEL	ACGIH TLV	DFG MAK *	EU BLV
Sodium bicarbonate	PNOC** Total dust, 15 mg/m <sup>3</sup> Respirable fraction, 5 mg/m <sup>3</sup>	PNOC Total dust, 10 mg/m <sup>3</sup> Respirable fraction, 3 mg/m <sup>3</sup>	PNOC Total dust, 4 mg/m <sup>3</sup> Respirable fraction, 1.5 mg/m <sup>3</sup>	NA
Attapulgite clay	PNOC** Total dust, 15 mg/m <sup>3</sup> Respirable fraction, 5 mg/m <sup>3</sup>	PNOC Total dust, 10 mg/m <sup>3</sup> Respirable fraction, 3 mg/m <sup>3</sup>	PNOC Total dust, 4 mg/m <sup>3</sup> Respirable fraction, 1.5 mg/m <sup>3</sup>	NA
Sericite Potassium aluminum silicate	PNOC**** 20 mppcf	PNOC Total dust, 10 mg/m <sup>3</sup> Respirable fraction, 3 mg/m <sup>3</sup>	PNOC Total dust, 4 mg/m <sup>3</sup> Respirable fraction, 1.5 mg/m <sup>3</sup>	NA
Silicone oil methyl hydrogen polysiloxane	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. \*\*\*\* mppcf – millions of particles per cubic foot

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. PPE use during production process must be independently evaluated.









Eye/Face Protection: Skin and Body Protection: Respiratory Protection:

Tightly fitting chemical 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

Page 5 of 12 Pages REGULAR POWDER Hygiene Measures:

provided in accordance with current safety and health requirements. The need for respiratory protection is not likely for short-term use in well ventilated areas. Good personal hygiene practice is essential, such as avoiding food, tobacco products, or other hand-tomouth contact when handling. Wash thoroughly after handling.

## Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Molecular Weight: Odor: Odor Threshold: Decomposition Temperature <sup>o</sup>C: Freezing Point <sup>o</sup>C: Initial Boiling Point <sup>o</sup>C: **Physical State:** pH: Flash Point <sup>o</sup>C: Autoignition Temperature <sup>o</sup>C: Boiling Point/Range <sup>o</sup>C: Melting Point/Range <sup>o</sup>C: Flammability: Flammability Limits in Air <sup>o</sup>C: **Explosive Properties: Oxidizing Properties:** Volatile Component (%vol) **Evaporation Rate:** Vapor Density: Vapor Pressure: Specific gravity: Solubility: Partition Coefficient: Viscosity:

White powder, finely divided odorless solid NaHCO3: 84.01 No information available No information available NaHCO3: 50 Approximately 50 (decomposes to sodium carbonate) 851 **Crystalline Powder** Approximately 8.3 None None Not Applicable. Will decompose Not Applicable Not Flammable Upper – Not Flammable; Lower-Not Flammable None None Not Applicable Not Applicable Not Applicable Low; Est 3.73e-09 mmhg NaHCO3: Approximately 1.2 as powder Product is coated - not immediately soluble in water. No Information Available Not Applicable

NOTE: NaHCO3 - Sodium bicarbonate

# Section 10. STABILITY AND REACTIVITY

Stability:

Stable under recommended storage and handling conditions.

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Reactivity:	Reacts exothermically with acids to generate carbon monoxide and carbon dioxide gas. Dangerous reaction with mono-ammonium phosphate and sodium potassium alloys.
Incompatibles:	Avoid contact with oxidizing agents and strong acids. Contact with mono-ammonium phosphate, especially in the presence of water, may cause pressure to build due to the generation of ammonia and carbon dioxide gas; moisture will accelerate this reaction. Sodium potassium alloy can result in a violent reaction with certain extinguishing agents, such as Sodium Bicarbonate. Mixtures of Sodium Bicarbonate with 2- furaldehyde can spontaneously ignite when exposed to air. Sodium Bicarbonate is incompatible with dopamine hydrochloride, pentazocine lactate, aspirin and bismuth salicylate, and many alkali salts.
Conditions to Avoid: Hazardous Decomposition Products:	Storage or handling near incompatibles. 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: Symptoms: Immediate: Inhalation: Eyes: Skin: Delayed: Acute Toxicity: Chronic Toxicity: Short-term Exposure: Long-term Exposure: Inhalation, skin and eye contact.

Irritation, coughing. Irritation. Irritation. Symptoms appear to be relatively immediate Relatively non-toxic.

None known. 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	
Sodium bicarbonate	4220 mg/kg (rat)	>2000 mg/kg (rabbit)	900 mg/m3 (rat)
Attapulgite clay	None	None	None
Sericite Potassium aluminum silicate	None	None	None
Silicone oil methyl hydrogen polysiloxane	None	None	None

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Reproductive Toxicity:

Target Organs and Effects (TOST):

This product's ingredients are not known to have reproductive or teratogenic effects. Respiratory system (mild irritant). This product is a mild irritant to epithelial tissue, (eyes, mucous membranes, skin) and may aggravate dermatitis. No information was found indicating the product causes sensitization.

### **Other Toxicity Categories**

Chemical Name	Germ Cell Mutagenicity	Carcino- genicity	Repro- ductive	TOST Single Exp	TOST Repeated Exp	Aspiration
Sodium bicarbonate	None	None	None	3	None	None
Attapulgite clay	None	None	None	None	Kidney	None
Sericite Potassium aluminum silicate	None	None	None	None	None	None
Silicone oil methyl hydrogen polysiloxane	None	None	None	None	None	None

# Section 12. ECOLOGICAL INFORMATION

Ecotoxicity:	Low.
Persistence/Degradability:	Soluble in water; NaHCO3: 96 g/l at 20 <sup>o</sup> C.
Probability of rapid biodegradation:	NaHCO3 Est: 0.718 (Rapid)
Anaerobic biodegradation probability:	NaHCO3 Est: 0.836 (Rapid)
Bioaccummulation potential:	Low.
Bioconcentration factor:	NaHCO3 Est: 3.16 L/kg
Mobility in soil:	Slow evaporation rate; water soluble, may leach to
	groundwater
Log Koc:	NaHCO3 Est: -2.06

NOTE: NaHCO3 - Sodium bicarbonate

Other Adverse Ecological Effects:

No other known effects at this time

### **Aquatic Toxicity Values - Environment**

Chemical Name	Acute (LC50)	Chronic (LC50)			
Sodium bicarbonate	7700 mg/l (rainbow trout)	4100 mg/l (water flea)			
Attapulgite clay	N/A	N/A			
Sericite	N/A	N/A			
Potassium aluminum silicate					
Silicone oil	N/A	N/A			
methyl hydrogen polysiloxane					

#### Aquatic Toxicity Values – Calculated Estimates

Chemical Name	Acute (LC50)	EC50
Sodium bicarbonate	8259 mg/L Fish 96 hr; 3737 mg/l Daphnid 48 hr;	1088 mg/L Gr. Algae 96 hr
Attapulgite clay	N/A	N/A
Sericite	N/A	N/A
Potassium aluminum silicate		
Silicone oil methyl hydrogen polysiloxane	N/A	N/A

## Section 13. DISPOSAL CONSIDERATIONS

Safe Handling

Waste Disposal Considerations

Contaminated Packaging

Use appropriate PPE when handling, and wash thoroughly after handling (see Section 8). Dispose in accordance with federal, state, and local regulations. 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
ΙΑΤΑ	Not regulated
DOT	Not regulated
NOTES:	5
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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 Regular Dry Chemical extinguisher 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

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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 VII 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
Sodium bicarbonate	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Attapulgite clay	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Sericite Potassium aluminum silicate	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Silicone oil methyl hydrogen polysiloxane	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
Sodium bicarbonate	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Attapulgite clay	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Sericite Potassium aluminum silicate	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Silicone oil methyl hydrogen polysiloxane	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

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### European Risk and Safety phrases:

EU Classification:	XN	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.
	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	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard-*	Yes
Reactive Hazard	No

\* - Only applicable if material is in a pressurized extinguisher.

### Clean Water/Clean Air Acts:

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42) or Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61) and Section 112 of the Clean Air Act Amendments of 1990.

### U.S. State Regulatory Information:

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

Alaska - Designated Toxic and Hazardous Substances: None
California – Permissible Exposure Limits for Chemical Contaminants: None
Florida – Substance List: Mica Dust
Illinois – Toxic Substance List: None
Kansas – Section 302/303 List: None
Massachusetts – Substance List: Mica Dust

Page 11 of 12 Pages REGULAR POWDER 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.

<u>Other</u>: Mexico – Grade Canada – WHMIS Hazard Class

No component listed 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
Revision Date
<b>Revision Notes</b>

17-June-2012 14-March-2018 None

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

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