

SAFETY DATA SHEET

Section 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Other Identifiers: Product Code(s): Model Codes(s) on Extinguishers: Recommended Use:

Manufacturer: Internet Address: Address:

Company Telephone: E-mail Address: Emergency Contacts: Super D Dry Powder Extinguisher Class D Powder, Sodium Chloride CH 545, CH 557 570, 680 Fire extinguishant for metal fires Not for human or animal drug use. AMEREX CORPORATION www.amerex-fire.com 7595 Gadsden Highway, P.O. Box 81 Trussville, AL 35173-0081

(205) 655-3271 <u>info@amerex-fire.com</u> Chemtrec 1(800) 424-9300 or (703) 527–3887 March 25, 2024; Revision C

Revised:

Section 2. HAZARDS IDENTIFICATION

GHS – Classification

Hazard Class	Category	Signal Word
Aerosols	Category 3	Warning
Acute Toxicity	Category 5	Warning
Skin Corrosion/Irritation	Category 2	Warning
Serious eye damage/eye irritation	Category 2A	Warning
Acute Toxicity, Inhalation	Category 5	Warning

GHS – Label Symbol(s):



If Pressurized: Gas Under Pressure



GHS - Signal Word(s):

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.

Warning

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

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GHS – Hazard Phrases

GHS Hazard	GHS Code(s)	Code Phrase(s)
Physical	H229	*Pressurized container; may burst if heated.
Health	H303	May be harmful if swallowed.
	315	Causes skin irritation.
	319	Causes serious eye irritation.
	335	May cause respiratory irritation.
Environmental	None	
Precautionary:		
General	P101	If medical advice is needed, have product container or label at hand
Prevention	P210	*Keep away from heat, hot surface, sparks, open flames, and other ignition sources.
	251	*Do not pierce or burn, even after use.
	261	Avoid breathing dust.
	264	Wash hands and face thoroughly after handling.
	280	Wear protective gloves/protective clothing/eye protection/face protection.
Response	P319	Get medical help if you feel unwell.
	321	Specific treatment (see Section 4. First Aid Measures).
	340	Remove person to fresh air and keep comfortable for breathing.
	362	Take off contaminated clothing.
	301+317	IF SWALLOWED: Get medical help.
	302+352	IF ON SKIN: wash with plenty of water
	304+317	IF INHALED: Get medical help.
	305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if
		present and easy to do – continue rinsing.
	332+317	If skin irritation occurs: Get medical help.
	362+364	Take off contaminated clothing and wash it before reuse.
Storage	403+233	Store in a well-ventilated place. Keep container tightly closed.
Slorage	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 as unused product.

*- Fire extinguishers are designed to be used to extinguish fires.

Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	EC No.	REACH Reg. No.	CAS-No.	Weight %
Sodium chloride evaporated flour grade	231-598-3	Not Available	7647-14-5	75-90
Attapulgite clay	601-805-5	Not Available	12174-11-7	3-6
Mica- potassium aluminum silicate	310-127-6	Not Available	12001-26-2	3-5
Zeolite, synthetic amorphous precipitated silica	215-283-8	Not Available	1318-02-1	1.5-3
Silica, amorphous, fumed	601-216-3	Not Available	112945-52-5	<2
Magnesium stearate octadecanoic acid, Mg salt	209-150-3	Not Available	557-04-0	<1

Emergency overview:

Adverse health effects and symptoms:

Light purple, fine solid powder, odorless.

May be an irritant to the respiratory system; irritant to the skin and eyes. Symptoms may include coughing, shortness of breath, and irritation of the lungs, eyes, and skin. Ingestion, although unlikely, may cause gastric distress.

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Section 4. FIRST AID MEASURES Eye Exposure: Causes irritation. Irrigate eyes with water and repeat until pain free. Seek medical attention if irritation persists, or if vision changes occur. Causes skin irritation. In case of contact, rinse with Skin Exposure: plenty of 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 nausea, vomiting, diarrhea, and abdominal cramps may result from excessive salt consumption. Profuse water loss can cause unusually high blood sodium levels ('hypernatremia') with symptoms such as dizziness, low blood pressure, and reduced urine production. Serious cases may result in swelling (edema), heightened blood pressure, increased heart rate, breathing trouble, convulsions, coma, and death. If victim is conscious and alert, give plenty of water to drink and do not induce vomiting. Seek immediate medical attention if overdose symptoms appear. 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: Kidney conditions, hypertension.

Section 5. FIRE-FIGHTING MEASURES

Flammable Properties: Flash Point: Suitable Extinguishing Media:

Hazardous Combustion Products:

<u>Explosion Data:</u> Sensitivity to Mechanical Impact: Sensitivity to Static Discharge: Unusual fire/explosion hazards: Not flammable Not determined Extinguishing measures suitable to local circumstances and the surrounding enviroinment. Toxic fumes of hydrochloric acid, sodium oxide, silicone oxide.

Not sensitive Not sensitive None known.

Page 3 of 11 Pages <u>SUPER – D</u> SDS Part Number 27555 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.
Environmental Precautions:	Prevent material from entering waterways.
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 extinguisher consistent with product labeling to ensure container integrity.
Incompatible Products:	Strong oxidizers. Reactive with metals, acids.
Hazardous Decomposition Products:	Toxic fumes of hydrochloric acid, sodium oxide, silicone oxide.
Hazardous Polymerization:	Will not occur.

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Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name	OSHA PEL	ACGIH TLV	DFG MAK *	EU BLV
Q a diama	PNOC**	PNOC		NA
Sodium chloride	Total dust, 15 mg/m ³ Respirable fraction, 5 mg/m ³	Total dust, 10 mg/m ³ Respirable fraction, 3 mg/m ³	Total dust, 4 mg/m ³ Respirable fraction, 1.5 mg/m ³	
Attapulgite	PNOC**	PNOC	PNOC	NA
Clay	Total dust, 15 mg/m ³ Respirable fraction, 5 mg/m ³	Total dust, 10 mg/m ³ Respirable fraction, 3 mg/m ³	Total dust, 4 mg/m ³ Respirable fraction, 1.5 mg/m ³	
	PNOC	PNOC	PNOC	NA
Mica	Total dust, 15 mg/m ³ Respirable fraction, 5 mg/m ³	Total dust, 10 mg/m ³ Respirable fraction, 3 mg/m ³	Total dust, 4 mg/m ³ Respirable fraction, 1.5 mg/m ³	
Zeolite	80 mg/m ³ % SiO ₂	10 mg/m ³	4 mg/m ³	NA
	PNOC	PNOC	PNOC	NA
Silica	Total dust, 15 mg/m ³ Respirable fraction, 5 mg/m ³	Total dust, 10 mg/m ³ Respirable fraction, 3 mg/m ³	Total dust, 4 mg/m ³ Respirable fraction, 1.5 mg/m ³	
Magnesium	PNOC**	PNOC	PNOC	NA
stearate	Total dust, 15 mg/m ³	Total dust, 10 mg/m ³	Total dust, 4 mg/m ³ Respirable fraction,	
octadecanoic acid, Mg salt	Respirable fraction, 5 mg/m ³	Respirable fraction, 3 mg/m ³	1.5 mg/m ³	

*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. PPE use during production process must be independently evaluated.





Eye/Face Protection:

Skin and Body Protection:





Wear tightly fitting safety goggles. Contact lens may absorb and concentrate irritants; if this problem occurs, a workplace policy should be determined.

Wear protective coveralls, rubber boots, PVC gloves. Use barrier cream and skin cleaning cream if concentrations are high enough to cause mild irritation.

Page 5 of 11 Pages <u>SUPER – D</u> <u>SDS Part Number 27555</u> **Respiratory Protection:** 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 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 Hygiene Measures: 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 °C: Freezing Point °C: Initial Boiling Point °C: Physical State: pH:	Fine crystals, off-white NACL: 58.44 g/mol; Zeolite: 162 g/mol None No information available (NIA) NIA NIA NACL: 100 at 750mm Hg; Zeolite: NIA Crystalline Powder NACL: Approximately 6.7 – 7.3 for a 10% solution; Zeolite: 1.2 – 1.3
Flash Point °C:	NACL: 1413; Zeolite: NIA
Autoignition Temperature °C:	NIA
Boiling Point/Range °C:	NACL: 100 at 750mm Hg; Zeolite: NIA
Melting Point/Range °C:	NACL: 801; Zeolite: > 500
Flammable:	Not Flammable
Flammability Limits in Air °C:	Upper: None; Lower: None
Explosive Properties:	None
Oxidizing Properties:	None
Volatile Component (%vol)	NIA
Evaporation Rate:	NIA
Vapor Density:	Not Applicable
Vapor Pressure:	NACL: 1 mm Hg at 865 ^o C; Zeolite: NIA
Specific gravity:	NACL: Approximately 2.17 at 25 °C; Zeolite: 2.3 – 2.7
Solubility:	Miscible
Partition Coefficient:	NIA
Viscosity:	Not Applicable
NOTE: NACL-Sodium Chloride: NIA - No Info	rmation available

NOTE: NACL-Sodium Chloride; NIA – No Information available

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Section 10. STABILITY AND REACTIVITY

Stability:

Reactivity: Incompatibles: Conditions to Avoid: Hazardous Decomposition Products:

Possibility of Hazardous Reactions: Hazardous Polymerization Stable under recommended storage and handling conditions. Generally unreactive. Strong oxidizers. Storage or handling near incompatibles. Heat of fire may release toxic fumes of hydrochloric acid, sodium oxide, silicone oxide. None Does not occur.

Section 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Immediate: Inhalation: Eyes: Skin: Ingestion: Delayed:

Chronic Toxicity: Short-term Exposure: Long-term Exposure: Inhalation, skin and eye contact. IngestionSymptoms:

Irritation, coughing. Irritation. Irritation. May cause irritation of gastrointestinal tract. Symptoms may be delayedAcute Toxicity: Slightly toxic.

None known. As with all dusts, pneumoconiosis, or "dusty lung" disease, may result from chronic exposure.

Acute Toxicity Values - Health

Chemical Name	LD	LD50	
	Oral	Dermal	
Sodium chloride	3000 mg/kg (rat); (TDL human 12357 mg/kg/23d)	10000 mg/kg (rabbit)	None
Attapulgite clay	None	None	None
Mica	None	None	None
Zeolite	None	None	None
Silica	None	None	None
Magnesium stearate octadecanoic acid, Mg salt	None	None	None

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 an irritant to epithelial tissue, (eyes, mucous membranes, skin) and may aggravate dermatitis. No information was found indicating the product causes sensitization. May be a kidney toxicant at high doses. May cause pulmonary edemaand respiratory arrest at very high doses.

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Other Toxicity Categories

Chemical Name	Germ Cell Mutagenicity	Carcino- genicity	Repro- ductive	TOST Single Exp	TOST Repeated Exp	Aspiration
Sodium chloride	None	None	None	None	None	None
Attapulgite clay	None	None	None	None	Kidney	None
Mica						
Zeolite	None	None	None	None	None	None
Silica	None	None	None	None	None	None
Magnesium stearate octadecanoic acid, Mg salt	None	None	None	None	None	None

Section 12. ECOLOGICAL INFORMATION

Ecotoxicity:

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Persistence/Degradability:	Degrades rapidly to chloride ion in wet environments, but
	the chloride ion is very persistent.
Probability of rapid biodegradation:	Est: 0.731(Rapid)
Anaerobic biodegradation probability:	Est: 0.836 (Rapid)
Bioaccummulation potential:	Low.
Bioconcentration factor:	3.16 L/kg
Bioaccummulation Potential:	Low. CT50 (days): LogP<3
Mobility in soil:	Log Koc: Est: 0.400
Log Koa:	Not applicable
Log Kaw:	Not applicable
Atmospheric oxidation half-life:	20.6 days
Level III Fugacity Model:	No information

Other Adverse Ecological Effects:

No other known effects at this time

Can be toxic in high concentrations.

Aquatic Toxicity Values – Environment Chemical Name Chronic (LC50) Acute (LC50) 9,498 (96h)-Rainbow Cat IV; 1300 mg/l (rainbow trout), 670 mg/l (water flea) Sodium chloride Trout Attapulgite clay N/A N/A N/A N/A Mica Zeolite N/A N/A Silica N/A N/A Magnesium stearate octadecanoic acid, Mg salt

Aquatic Toxicity Values – Calculated Estimates

Chemical Name	Acute (LC50)	EC50
Sodium chloride	597 mg/l Fish 96hr 296 mg/l Daphnia 48 hr	597 mg/l Gr Algae 96hr
Attapulgite clay	N/A	N/A
Mica	N/A	N/A
Zeolite		
Silica	N/A	N/A
Magnesium stearate octadecanoic acid, Mg salt	N/A	N/A

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Section 13. DISPOSAL CONSIDERATIONS

Safe Handling	Keep formation of airborne dust to a minimum. Avoid breathing dust. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. 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.
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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?:	NA

See current applicable transport regulation (Dot - Ground, IATA - Air, IMDG - Maritime) prior toshipping.

The transportation information above covers the Super D Dry Powder 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:	Sodium chloride is 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		

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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 Chloride	Not Applicable	Not A	Applicable	Not App	licable	Not Applica	ble	e Not Applicable		Not Applicable	
Component	ISHA – Harmfu Substances Prohibited for Manufacturing Importing, Transferring, o Supplying],	ISHA – Har Substance Requiring Permissior	S	Classifi Listing	Toxic Chemical Classification isting (TCCL) – oxic Chemicals		Toxic Release Inventory (TRI) – Group II			
Sodium chloride	Not Applicable		Not Applicable Not Applicable Not Applicable		Applicable	Not Applicable					
Attapulgite clay	Not Applicable		Not Applica	ble	Not App	licable	Not A	Applicable	N	ot Applicable	
Mica	Not Applicable		Not Applica	ble	Not App	licable	Not A	Applicable	No	ot Applicable	
Zeolite	Not Applicable		Not Applica	ble	Not App	licable	Not A	Applicable	N	ot Applicable	
Silica	Not Applicable		Not Applica	ble	Not App	licable	Not A	Applicable	N	ot Applicable	
Magnesium stearate octadecanoic acid, Mg salt	Not Applicable		Not Applica	ble	Not App	licable	Not A	Applicable	N	ot 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 any 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

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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: None 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:

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 Revision Date Revision Notes 17-June-2012 25-March-2024; Revision C None

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