

## **SAFETY DATA SHEET**

#### Section 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Super D Dry Powder Extinguisher Other Identifiers: Class D Powder, Sodium Chloride

Product Code(s): CH 545, CH 557

Model Codes(s) on Extinguishers: 570, 680

Recommended Use: Fire extinguishant for metal fires

Not for human or animal drug use.

Manufacturer: AMEREX CORPORATION

Internet Address: <a href="https://www.amerex-fire.com">www.amerex-fire.com</a>

Address: 7595 Gadsden Highway, P.O. Box 81

Trussville, AL 35173-0081

Company Telephone: (205) 655-3271

E-mail Address: info@amerex-fire.com

Emergency Contacts: Chemtrec 1(800) 424-9300 or

(703) 527–3887

Revised: March 14, 2018

#### 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 – Signal 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

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 Phrases**

GHS Hazard	GHS Codes(s)	Code Phrase(s)
Physical	H229	*- Contents under pressure; may explode if heated.
Health	H303	May be harmful if swallowed.
	312	Harmful in contact with skin.
	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	P251	Do not pierce or burn, even after use.
	261	Avoid breathing dust/fumes/gas/mist/vapours/spray.
	264	Wash exposed skin thoroughly after handling.
	271	Use only outdoors or in a well-ventilated area.
	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)
	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.
	332+313	If skin irritation occurs: Get medical advice/attention.
	342+311	If experiencing respiratory symptoms: Call a doctor.
	337+313	If eye irritation persists get medical advice/attention.
Storage	P410+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.

<sup>\*-</sup> If under pressure

# 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	310-1276	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	NA	Not Available	112945-52-5	<2
Magnesium stearate octadecanoic acid, Mg salt	228-767-9	Not Available	557-04-0	<1

Emergency overview:

Light purple, fine solid powder, odorless.

Adverse health effects and symptoms:

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.

## 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.

Skin Exposure: Causes skin irritation. In case of contact, rinse with

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 my 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: Not flammable Flash Point: Not determined

Suitable Extinguishing Media: Extinguishing measures suitable to local

circumstances and the surrounding environment

**Hazardous Combustion Products:** Toxic fumes of hydrochloric acid, sodium oxide,

silicone oxide.

Explosion Data:

Sensitivity to Mechanical Impact: Not sensitive Sensitivity to Static Discharge: Not sensitive Unusual fire/explosion hazards: None known

Protective Equipment and

Precautions for Firefighters: 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. Minimum - safety glasses, gloves, and a dust Personal Protective Equipment:

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.

Prevent material from entering waterways. **Environmental Precautions:** 

If product is contaminated, use PPE and containment Other:

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).

Keep product in original container or extinguisher. Conditions for Safe Storage:

Contents may be under pressure – inspect extinguisher consistent with product labeling to

ensure container integrity.

Strong oxidizers. Reactive with metals, acids. Incompatible Products: Hazardous Decomposition Products:

Toxic fumes of hydrochloric acid, sodium oxide,

silicone oxide.

Hazardous Polymerization: Will not occur

## Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name	OSHA PEL	ACGIH TLV	DFG MAK *	EU BLV
Sodium chloride	PNOC** Total dust, 15 mg/m³ Respirable fraction, 5 mg/m³	PNOC Total dust, 10 mg/m³ Respirable fraction, 3 mg/m³	PNOC Total dust, 4 mg/m³ Respirable fraction, 1.5 mg/m³	NA
Attapulgite Clay	PNOC** Total dust, 15 mg/m³ Respirable fraction, 5 mg/m³	PNOC Total dust, 10 mg/m³ Respirable fraction, 3 mg/m³	PNOC Total dust, 4 mg/m³ Respirable fraction, 1.5 mg/m³	NA
Mica	PNOC Total dust, 15 mg/m³ Respirable fraction, 5 mg/m³	PNOC Total dust, 10 mg/m³ Respirable fraction, 3 mg/m³	PNOC Total dust, 4 mg/m³ Respirable fraction, 1.5 mg/m³	NA
Zeolite	80 mg/m <sup>3</sup> % SiO <sub>2</sub>	10 mg/m <sup>3</sup>	4 mg/m <sup>3</sup>	NA
Silica	PNOC Total dust, 15 mg/m³ Respirable fraction, 5 mg/m³	PNOC Total dust, 10 mg/m³ Respirable fraction, 3 mg/m³	PNOC Total dust, 4 mg/m³ Respirable fraction, 1.5 mg/m³	NA
Magnesium stearate octadecanoic acid, Mg salt	PNOC** Total dust, 15 mg/m³ Respirable fraction, 5 mg/m³	PNOC Total dust, 10 mg/m³ Respirable fraction, 3 mg/m³	PNOC Total dust, 4 mg/m³ Respirable fraction, 1.5 mg/m³	NA

<sup>\*</sup>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

### <u>Personal Protective Equipment – PPE Code E:</u>

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:

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.

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

avoiding food, tobacco products, or other hand-tomouth contact when handling. Wash thoroughly after

handling.

### Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Fine crystals, off-white

Molecular Weight: NACL: 58.44 g/mol; Zeolite: 162 g/mol

Odor: None

Hygiene Measures:

Odor Threshold: No information available (NIA)

Decomposition Temperature <sup>O</sup>C: NIA Freezing Point <sup>O</sup>C: NIA

Initial Boiling Point <sup>o</sup>C: NACL: 100 at 750mm Hg; Zeolite: NIA

Physical State: Crystalline Powder

pH: NACL: Approximately 6.7 – 7.3 for a 10% solution;

Zeolite: 1.2 – 1.3

Flash Point <sup>o</sup>C: NACL: 1413; Zeolite: NIA

Autoignition Temperature <sup>o</sup>C: NIA

Boiling Point/Range <sup>O</sup>C: NACL: 100 at 750mm Hg; Zeolite: NIA

Melting Point/Range °C: NACL: 801; Zeolite: > 500

Flammable: Not Flammable

Flammability Limits in Air <sup>o</sup>C: Upper: None; Lower: None

Explosive Properties:

Oxidizing Properties:

Volatile Component (%vol)

Evaporation Rate:

None

NIA

NIA

Vapor Density: Not Applicable

Vapor Pressure: NACL: 1 mm Hg at 865 °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 Information available

#### Section 10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage and handling

conditions.

Reactivity: Generally unreactive. Incompatibles: Strong oxidizers.

Conditions to Avoid: Storage or handling near incompatibles.

Hazardous Decomposition Products: Heat of fire may release toxic fumes of hydrochloric

acid, sodium oxide, silicone oxide.

Possibility of Hazardous Reactions: None

Hazardous Polymerization Does not occur

#### Section 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Inhalation, skin and eye contact. Ingestion

Symptoms: Immediate:

Inhalation: Irritation, coughing.

Eyes: Irritation. Skin: Irritation.

Ingestion: May cause irritation of gastrointestinal tract.

Delayed: Symptoms may be delayed

Acute Toxicity: Slightly toxic.

Chronic Toxicity:

Short-term Exposure: None known.

Long-term Exposure: 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:

This product's ingredients are not known to have

reproductive or teratogenic effects.

Target Organs and Effects (TOST): 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 edema and respiratory arrest at very high doses.

#### 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: Can be toxic in high concentrations.

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

Not applicable

Not applicable

Not applicable

20.6 days

Level III Fugacity Model:

No information

Other Adverse Ecological Effects: No other known effects at this time

#### **Aguatic Toxicity Values - Environment**

Chemical Name	Acute (LC50)	Chronic (LC50)
Sodium chloride	9,498 (96h)-Rainbow	Cat IV; 1300 mg/l (rainbow trout), 670 mg/l (water flea)
Sociali Cilonae	Trout	
Attapulgite clay	N/A	N/A
Mica	N/A	N/A
Zeolite		
Silica	N/A	N/A
Magnesium stearate	N/A	N/A
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

#### 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.

#### 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:
UN Proper Shipping Name:
NA
Transport Hazard Class:
NA
Packing Group:
NA
Marine Pollutant?:
NA

IATA Not regulated

DOT Not regulated

#### NOTES:

Special Precautions for Shipping:

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

**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 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 chloride	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Attapulgite clay	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Mica	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Zeolite	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Silica	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Magnesium stearate octadecanoic acid, Mg salt	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

#### **European Risk and Safety phrases:**

EU Classification: XN Irritant

R Phrases: 20 Harmful by inhalation.

36/37 Irritating to eyes, respiratory system.

Page 10 of 12 Pages SUPER - D

S Phrases: 22 Do not breath dust.

24/25 Avoid contact with skin and eyes

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

<sup>\* -</sup> 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 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.

#### 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 17-June-2012 Revision Date 14-March-2018

Revision Notes None

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