

SAFETY DATA SHEET

Section 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: ABC Dry Chemical Fire Extinguishant

Other Identifiers: Multi-purpose Dry Chemical

Product Code(s): CH555, F13, F11

Model Code(s) of Extinguishers: 402, IS 18ABC, IS35ABC, IS 45ABC, 13ABC, V25ABC,

VH25ABC, V30ABC, VH30ABC, V50ABC, VS50ABC,

VS75ABC, V250ABC

Recommended Use: Fire suppression, not for human or animal drug use.

Manufacturer: AMEREX CORPORATION

Internet Address: <u>www.amerex-fire.com</u>

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: April 17, 2024; Revision C

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 - Words(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 5 μ m; therefore, the clay is not considered to be carcinogenic in animals or humans.

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. No
		smoking.
	251	*Do not pierce or burn, even after use.
	261	Avoid breathing dust.
	264	Wash hands and face thoroughly after handling.
	271	Use only outdoors or in a well-ventilated area.
	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.
	403+233	Store in a well-ventilated place. Keep container tightly closed.
Storage	405	Store locked up.
	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 %	Classification
Mono-ammonium phosphate	231-764-5	01-2119488166-29	7722-76-1	80-98	NA
Attapulgite clay	601-805-5	Not Available	12174-11-7	3-16	NA
Mica- potassium aluminum silicate	310-127-6	Not Available	12001-26-2	1-2	NA
Silicone oil methyl hydrogen polysiloxane	613-152-3	Not Available	63148-57-2	<1	NA
Calcium carbonate	207-439-9	Not Available	471-34-1	<1	NA
Amorphous silica precipitated synthetic zeolite	231-545-4	01-2119379499-16- 0036	7631-86-9	<1	NA
Yellow 14 pigment – di-azo dye	226-789-3	Not Available	5468-75-7	<1	NA

Emergency overview:

Light yellow, fine solid powder, odorless.

Adverse health effects and symptoms:

Mild irritant to the respiratory system. Irritant to eyes, and skin. Symptoms may include coughing, shortness of breath, and irritation of the lungs, eyes,and skin. Ingestion, although unlikely, may cause cramps, nausea and diarrhea.

Section 4. FIRST AID MEASURES

Eye Exposure: May cause irritation. Irrigate eyes with water andrepeat

until pain free. Seek medical attention if irritation

develops, or if vision changes occur.

Skin Exposure: May cause skin irritation. In case of contact, wash with

plenty of soap and water. Seek medical attentionif

irritation persists.

Inhalation: May cause irritation, along with coughing. If respiratory

irritation or distress occurs remove victimto fresh air.

Seek medical attention if irritation persists.

Ingestion: Overdose symptoms may include numbness or tingling

in hands or feet, uneven heart rate, paralysis, feeling faint, chest pain or heavy feeling, pain spreading to the arm or shoulder, nausea, diarrhea, sweating, general ill feeling, or seizure (convulsions). 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 lowerthan 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: Not flammable Flash Point: Not determined

Suitable Extinguishing Media: Non-combustible. Use extinguishing media suitable for

surrounding conditions.

Hazardous Combustion Products: Carbon oxides

Explosion Data:

Sensitivity to Mechanical Impact: Not sensitive Sensitivity to Static Discharge: Not sensitive

Unusual fire/explosion hazards: In a fire this material may decompose, releasing oxides

of carbon, potassium and nitrogen (seeSection 10).

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.

Page 3 of 12 Pages

ABC

SDS Part Number

27556

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.

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 for extinguisher rust periodically to ensure container

integrity.

Incompatible Products: Do not mix with other extinguishing agents,

particularly potassium bicarbonate and sodium bicarbonate. Incompatible with strong oxidizing agents and strong acids. Do not store in high

humidity. Do not combine with chlorine compounds.

Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name	OSHA PEL	ACGIH TLV	DFG MAK *	EU BLV
Mono-	PNOC**	PNOC	PNOC	NA
ammonium	Total dust, 15 mg/m ³	Total dust, 10 mg/m ³	Total dust, 4 mg/m³	
phosphate	Respirable fraction, 5 mg/m ³	Respirable fraction, 3 mg/m ³	Respirable fraction,1.5 mg/m ³	
Mica	6 mg/m ³	3 mg/m3		NA
Attapulgite	PNOC**	PNOC	PNOC	
clay	Total dust, 15 mg/m ³	Total dust, 10 mg/m ³	Total dust, 4 mg/m ³	
	Respirable fraction, 5 mg/m ³	Respirable fraction, 3 mg/m ³	Respirable fraction,1.5 mg/m ³	
Silicone oil	NR**	NR		
Calcium	PNOC	PNOC		NA
carbonate	Total dust, 15 mg/m ³	Total dust, 10 mg/m ³		
	Respirable fraction, 5 mg/m ³	Respirable fraction, 3 mg/m ³		
Amorphous	20mppcf <u>80 mg/m³</u>	10 mg/m ³	4 mg/m ³	NA
silica	or % SiO ₂			
Yellow 14	NR	NR	NR	NA
pigment				

^{*}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. During production, the manufacturer should use judgement concerning the need for PPE.





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





Wear tightly fitting safety goggles.

short-term use in well-ventilated areas.

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 provided in accordance with current local regulations. The need for respiratory protection is not likely for

Page 5 of 12 Pages

ABC

SDS Part Number

27556

Hygiene Measures:

Good personal hygiene practices essential, such as avoiding food, tobacco products, or other hand-tomouth contact when handling. Wash thoroughly after

handling.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Light yellow powder, finely divided odorless Appearance:

solid

NH4H2PO4: 115.03 Molecular Weight:

Odor: Odorless

Odor Threshold: No information available

Decomposition Temperature °C: 100 - 120

Freezing Point °C: No information available Initial Boiling Point °C: No information available Physical State: Crystalline Powder :Ha Approximately 4.4 to 4.9

Flash Point °C: None Autoignition Temperature °C: None

Boiling Point/Range °C: No information available

Melting Point/Range °C: NH4H2PO4: 190

Flammability/Explosion Limits in Air °C: Upper – None; Lower-None

Explosive Properties: None Oxidizing Properties: None

Volatile Component (%vol) Not applicable

Evaporation Rate: No information available Vapor Density: No information available Vapor Pressure: NH4H2PO4: 1.41 mm/Hg

Specific gravity at 25°C: NH4H2PO4: 1.80 Solubility: 40.4 g/100 ml

Partition Coefficient: NH4H2PO4 Est: -4.11 No information available Viscosity:

NOTE: NH4H2PO4 – Monoammonium Phosphate

Section 10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage and handling

conditions.

Incompatibles: Strong oxidizing agents; Strong acids; sodium

hypochlorite and chlorine compounds. Protect from

moisture.

Conditions to Avoid: Storage or handling near incompatibles.

Carbon, nitrogen, and potassium oxides. Heat of fire **Hazardous Decomposition Products:**

may release carbon monoxide.

None Possibility of Hazardous Reactions:

Hazardous Polymerization Does not occur.

Page 6 of 12 Pages

<u>ABC</u>

SDS Part Number

27556

Section 11. TOXICOLOGICAL INFORMATION

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

Symptoms:

Inhalation: Irritation, coughing.

Eyes: Irritation. Skin: Irritation.

Acute Toxicity: Relatively non-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		LD50	LC50 (Inhalation)
	Oral	Dermal	
Mono-ammonium phosphate	5750 mg/kg (rat)	>7940 mg/kg (rabbit)	Not available
Mica	None	None	None
Attapulgite clay	None	None	None
Silicone oil	None	None	None
Calcium carbonate	6450 mg/kg (rat)	500 mg/24 hr (rabbit)	Not available
Amorphous silica	>5000 mg/kg (rat)	>2000 mg/kg (rabbit)	>2.2 mg/L (rat)
Yellow 14 pigment	>17000 mg/kg (rat)	>3000 mg/kg (rat)	>4448 mg/m3 (rat)

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 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
Mono-ammonium phosphate	None	None	None	Cat 3	None	None
Attapulgite clay	None	None	None	None	None	None
Mica	None	None	None	None	None	None
Silicone oil	None	None	None	None	None	None
Calcium carbonate	None	None	None	None	None	None
Amorphous silica	None	None	None	None	None	None
Yellow 14 pigment	None	None	None	None	None	None

Section 12. ECOLOGICAL INFORMATION

Ecotoxicity: Negative effects unknown. Provides nutrient nitrogen and

phosphorus to plant life.

Persistence/Degradability: Degrades rapidly in humid/wet environment.

Probability of rapid biodegradation: NH4H2PO4 Est: 0.693 (Rapid);

(NH4)2SO4: Est: 0.684 (Rapid)

Anaerobic biodegradation probability: NH4H2PO4 Est: 0.398 (Slow);

(NH4)2SO4: Est: 0.398 (Slow)

Bioaccummulation potential: Low.

Bioconcentration factor: NH4H2PO4: 3.16 L/kg (wet weight) (Low BCF)

Bioaccummulation factor: NH4H2PO4: 63.04 L/kg (wet weight)

Mobility in soil: Slow evaporation rate; water soluble, may leach to

groundwater.

Log Koc: NH4H2PO4 Est: -1.25 Log Koa: NH4H2PO4 Est: 16.72 Log Kaw: NH4H2PO4 Est: -20.86

NOTE: NH4H2PO4 – Mono-ammonium Phosphate

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

Aquatic Toxicity Values - Environment - Research

Chemical Name	Acute (LC50)	Chronic (LC50)
Mono-ammonium phosphate	N/A	N/A
Mica	N/A	N/A
Attapulgite clay	N/A	N/A
Silicone oil	N/A	N/A
Calcium carbonate	N/A	N/A
Amorphous silica	N/A	N/A
Yellow 14 pigment	N/A	N/A

Aquatic Toxicity Values – Environment – Estimates

riquation continuous		
Chemical Name	Acute (LC50)	EC50
Mono-ammonium phosphate	2,91e+07 mg/L Fish 96 hr; 9.4e+06 mg/l Daphnid 48 hr;	6.70e+05 mg/L Gr. Algae 96 hr
Mica	N/A	N/A
Attapulgite clay	N/A	N/A
Silicone oil	N/A	N/A
Calcium carbonate	N/A	N/A
Amorphous silica	N/A	N/A
Yellow 14 pigment	N/A	N/A

Section 13. DISPOSAL CONSIDERATIONS

Safe Handling 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

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

NOTES:

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 ABC 555 dry chemical 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: 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 XVII Restrictions: No information available

INEAOH HILLO		J113.	INO II II OI II II			
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
Monoammonium Phosphate	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
Monoammonium Phosphate 7722-76-1	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Attapulgite clay 12174-11-7 (>3)	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Mica- potassium aluminum silicate 120001-26-2 (>2)	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Calcium carbonate 471-34-1	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Amorphous silica 69012-64-2	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Yellow 14 pigment 5468-75-7	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.

36/37/38 Irritating to eyes, respiratory system and skin.

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.

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

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:

Mexico – Grade No component listed.
Canada – WHMIS Hazard Class No component listed.

Page 11 of 12 Pages

ABC SDS Part Number 27556

^{* -} Only applicable if material is in a pressurized extinguisher.

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 17-April-2024; Revision C

Revision Notes None

The information herein is given in good faith but no warranty, expressed or implied, is made. This document is controlled by Amerex Compliance Department.