

SAFETY DATA SHEET

Section 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Other Identifiers: Product Code(s): Model Code(s) of Extinguishers:

Recommended Use:

Manufacturer: Internet Address: Address:

Company Telephone: E-mail Address: Emergency Contacts:

Revised:

ABC Dry Chemical Fire Extinguishant Multi-purpose Dry Chemical CH555, F13, F11 402, IS 18ABC, IS35ABC, IS 45ABC, 13ABC, V25ABC, VH25ABC, V30ABC, VH30ABC, V50ABC, V550ABC, VS75ABC, V250ABC Fire suppression, not for human or animal drug use. AMEREX CORPORATION www.amerex-fire.com

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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 – 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 5um; therefore, the clay is not considered to be carcinogenic in 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
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.
	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.
	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.

GHS – Hazard Phrases

*- If under pressure

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	310-1276	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	1317-65-3	<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 and repeat 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 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 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 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:

Not flammable Not determined Non-combustible. Use extinguishing media suitable for surrounding conditions. Carbon oxides

Explosion Data: Sensitivity to Mechanical Impact: Sensitivity to Static Discharge: Unusual fire/explosion hazards:

Protective Equipment and Precautions for Firefighters:

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

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. 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 n equipment, and wash thoroughly after ha Section 8).	•
Conditions for Safe Storage:	Keep product in original container or extin Contents may be under pressure – inspe extinguisher rust periodically to ensure co integrity.	ct for
Incompatible Products:	Do not mix with other extinguishing agen particularly potassium bicarbonate and se bicarbonate. Incompatible with strong ox agents and strong acids. Do not store in humidity. Do not combine with chlorine c	odium idizing high
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Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

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:





Tightly fitting safety 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 provided in accordance with current local regulations. The need for respiratory protection is not likely for short-term use in well ventilated areas.

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

Appearance:

Molecular Weight: Odor: Odor Threshold: Decomposition Temperature ^oC: Freezing Point ^oC: Initial Boiling Point ^oC: **Physical State:** pH: Flash Point ^oC: None Autoignition Temperature ^oC: None Boiling Point/Range ^oC: Melting Point/Range ^oC: Flammability/Explosion Limits in Air ^oC: **Explosive Properties:** None **Oxidizing Properties:** None Volatile Component (%vol) **Evaporation Rate:** Vapor Density: Vapor Pressure: Specific gravity at 25 °C: Solubility: Partition Coefficient: Viscosity:

Light yellow powder, finely divided odorless solid NH4H2PO4: 115.03 Odorless No information available 100 - 120 No information available No information available **Crystalline Powder** Approximately 4.4 to 4.9 No information available NH4H2PO4: 190 Upper – None; Lower-None Not applicable No information available No information available NH4H2PO4: 1.41 mm/Hg NH4H2PO4: 1.80 40.4 g/100 ml NH4H2PO4 Est: -4.11 No information available

NOTE: NH4H2PO4 - Monoammonium Phosphate

Section 10. STABILITY AND REACTIVITY

Stability:

Incompatibles:

Conditions to Avoid: Hazardous Decomposition Products:

Possibility of Hazardous Reactions: Hazardous Polymerization Stable under recommended storage and handling conditions. Strong oxidizing agents; Strong acids; sodium hypochlorite and chlorine compounds. Protect from moisture Storage or handling near incompatibles. Carbon, nitrogen, and potassium oxides. Heat of fire may release carbon monoxide. None Does not occur

Section 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Symptoms: Inhalation: Eyes: Skin: Acute Toxicity: Chronic Toxicity: Short-term Exposure: Long-term Exposure: Inhalation, skin and eye contact.

Irritation, coughing. Irritation. Irritation. 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	
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:

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
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
Persistence/Degradability:	phosphorus to plant life. 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

Aquallo Toxiolly Values		
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

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

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: UN Proper Shipping Name: Transport Hazard Class: Packing Group: Marine Pollutant?:	NA NA NA NO
ΙΑΤΑ	Not regulated
DOT NOTES:	Not regulated

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

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: Xr	n - 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
	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	Yes
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.

ABC

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 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 Revision Notes 17-June-2012 13-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.