



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: www.amerex-fire.com
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: January 2015

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 2B | None | Warning |
| Carcinogen: Category None | None | None |

GHS – Label Symbol(s): None

Other Hazards Not Resulting in Classification: None

GHS – Hazard Phrases

| GHS Hazard | GHS Codes(s) | Code Phrase(s) |
|----------------|---|---|
| Physical | None | |
| Health | H303 313 320 333 | May be harmful if swallowed May be harmful in contact with skin Causes eye irritation May be harmful if inhaled |
| Environmental | None | |
| Precautionary: | | |
| General | P101 102 | If medical advice is needed, have product container or label at hand Keep out of reach of children |
| Prevention | 234 251 261 264 270 281 285 | Keep in original container Pressurized container; do not pierce or burn, even after use Avoid breathing dust Wash hands and face thoroughly after handling Do not eat, drink, or smoke when using this product Use personal protective equipment as required In case of inadequate ventilation, wear respiratory protection |
| Response | P301+322+331 302+352 304+313+341 305+351+338 308+313 337+313 | If swallowed, drink 2-3 glasses of water and do not induce vomiting If on skin, wash with soap and water If inhaled, and if distress occurs, remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical advice/attention If in eyes, rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do, and continue to rinse If exposed or concerned, get medical advice/attention If eye irritation persists; get medical advice/attention |
| Storage | P401+402+403 | Store in original container or extinguisher in a dry, well ventilated place |

Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | EC No. | REACH Reg. No. | CAS-No. | Weight % | Classification |
|--|-----------|----------------|-------------|----------|----------------|
| Mono-ammonium phosphate | NA | NA | 7722-76-1 | 90-97 | NA |
| Fullers earth magnesium aluminum silicate | NA | Not Available | 8031-18-3 | >3 | NA |
| Mica- potassium aluminum silicate | NA | Not Available | 12001-26-2 | 1-2 | NA |
| Silicone oil methyl hydrogen polysiloxane | NA | Not Available | 63148-57-2 | <1 | NA |
| Calcium carbonate | 215-279-6 | Not Available | 1317-65-3 | <1 | NA |
| Amorphous silica precipitated synthetic zeolite | 262-373-8 | Not Available | 112926-00-8 | <1 | NA |
| Yellow 14 pigment – di-azo dye | 228-767-9 | 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, 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.

Cut-off Levels

| Chemical Name | Reproductive Toxicity | Carcinogenicity | Mutagenicity | Other Hazard Classes |
|---|-----------------------|-----------------|--------------|----------------------|
| Mono-ammonium Phosphate | NA | NA | NA | NA |
| Fullers earth magnesium aluminum silicate | NA | NA | NA | NA |
| Mica-potassium aluminum silicate | NA | NA | NA | NA |
| Silicone oil methyl hydrogen polysiloxane | NA | NA | NA | NA |
| Calcium carbonate | NA | NA | NA | NA |
| Amorphous silica precipitated synthetic zeolite | NA | NA | NA | NA |
| Yellow 14 pigment – di-azo dye | NA | NA | NA | NA |

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: | Not flammable |
| Flash Point: | Not determined |
| Suitable Extinguishing Media: | Non-combustible. Use extinguishing media suitable for surrounding conditions. |
| Hazardous Combustion Products: | Carbon oxides |
| <u>Explosion Data:</u> | |
| 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 (see Section 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. |

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-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/m ³ | ----- | NA |
| Fullers Earth | 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 | 143 mg/m ³ <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:



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 N95 dust mask 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-to-mouth contact when handling. Wash thoroughly after handling.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-------------------------------|--|
| Appearance: | Light yellow powder, finely divided odorless solid |
| Molecular Weight: | 115.03 |
| 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 |
| pH: | Approximately 4.4 to 4.9 |
| Flash Point °C: | None |
| Autoignition Temperature °C: | None |
| Boiling Point/Range °C: | Not Applicable |

| | |
|--------------------------------|--|
| Melting Point/Range °C: | 190 C |
| Flammability Limits in Air °C: | Upper – Not Flammable; Lower-Not Flammable |
| Explosive Properties: | None |
| Oxidizing Properties: | None |
| Volatile Component (%vol) | Not Applicable |
| Evaporation Rate: | Not Applicable |
| MMHG @ 37.8 C : | Not Applicable |
| Vapor Density: | Not Applicable |
| Vapor Pressure: | Not Applicable |
| Specific gravity: | Approximately 1.8 at 25 C |
| Solubility: | 40.4 g/100 ml |
| Partition Coefficient: | No Information Available |
| Viscosity: | Not Applicable |

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. |
| Hazardous Decomposition Products: | 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: | 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 |
| Fullers Earth | 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 | Carcinogenicity | Reproductive | TOST Single Exp | TOST Repeated Exp | Aspiration |
|-----------------------|------------------------|-----------------|--------------|-----------------|-------------------|------------|
| Potassium Bicarbonate | None | None | None | Cat 3 | None | None |
| Fullers earth | 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.

Bioaccumulation:

extent unknown.

Mobility in soil:

slow evaporation rate; water soluble, may leach to groundwater

Other Adverse Ecological Effects:

No other known effects at this time

Aquatic Toxicity Values – Environment – None Known

| Chemical Name | Acute (LC50) | Chronic (LC50) |
|------------------------|---------------------|-----------------------|
| Monoammonium phosphate | N/A | N/A |
| Mica | N/A | N/A |
| Fullers Earth | 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

UN Number:

NA

UN Proper Shipping Name:

NA

Transport Hazard Class:

NA

Packing Group:

NA

Marine Pollutant?:

NO

IATA

Not regulated

DOT

Not regulated

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:

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 is Limited Quantity when pressurized to less than 241 psig and when shipped via highway or rail. Use a Non-Flammable Gas label (class 2.2) when shipping via air.

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 |
|------------------------|----------------------|------------------|---|--|---|---|
| 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 |
| Fullers earth magnesium aluminum silicate 8031-18-3 (>4) | 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: Irritant

R Phrases: 20
36/37

S Phrases: 22
24/25
26

36

Harmful by inhalation.
Irritating to eyes, respiratory system.
Do not breath dust.
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 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 Act:

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)

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutants (HAPs) under 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

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-October-2013 |
| Revision Date | 06-January-2015 |
| 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.