



# Safety Data Sheet

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2024 and GHS Rev 07

Date of issue: 10/29/2024

Revised on 10/29/2024

## 1 Identification

### Product Identifier

**Trade Name:** ABC Dry Chemical Fire Extinguishant

**Relevant identified uses of the substance or mixture and uses advised against:**

**Product Description:** No further relevant information available.

### Details of the Supplier of the Safety Data Sheet:

**Manufacturer/Supplier:**

Buckeye Fire Equipment Company  
110 Kings Road  
Kings Mountain, NC 28086  
P: 704-739-7415  
www.buckeyefire.com  
bfec@buckeyef.com

### Emergency telephone number:

CHEMTREC, 24 hours  
Within USA and Canada: 1-800-424-9300  
Outside USA and Canada: +1-703-527-3887 (collect calls accepted)

## 2 Hazard(s) Identification

### Classification of the substance or mixture:



Gas cylinder

Gases under pressure - Compressed gas H280 Contains gas under pressure; may explode if heated.

Eye irritation 2B H320 Causes eye irritation.

### Label elements:

#### Hazard pictograms:



**Signal word:** Warning

#### Hazard-determining components of labeling:

Ammonium phosphate monobasic

#### Hazard statements:

H280 Contains gas under pressure; may explode if heated.  
H320 Causes eye irritation.

#### Precautionary statements:

P264 Wash thoroughly after handling.  
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P410+P403 Protect from sunlight. Store in a well-ventilated place.

#### Unknown acute toxicity:

This value refers to knowledge of known, established toxicological or ecotoxicological values.  
8 % of the mixture consists of component(s) of unknown toxicity.

(Contd. on page 2)



# Safety Data Sheet

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2024 and GHS Rev 07

Date of issue: 10/29/2024

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**Trade Name: ABC Dry Chemical Fire Extinguishant****Information pertaining to particular dangers for man and environment:****Classification system:**

NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme

**NFPA ratings (scale 0 - 4)****HMIS-ratings (scale 0 - 4)****Hazard(s) not otherwise classified (HNOC):** None known**Classification according to (d)(1)(ii) of § 1910.12000**

The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.

**Hazards not otherwise classified**

There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

### 3 Composition/Information on Ingredients

**Chemical characterization: Substance****Description:**

Mixture of substances listed with non-hazardous additions and/or components that are less than listing threshold. All non-hazardous, components listed under threshold, and listed component total 100%.

**Dangerous Components:**

CAS: 7722-76-1	Ammonium phosphate monobasic ⚠ Skin irritation 2, H315; Specific target organ toxicity (single exposure) 3, H335; Eye irritation 2B, H320	85%
CAS: 7727-43-7 RTECS: CR 0600000	barium sulphate, natural	8%
CAS: 12001-26-2	Mica	<3%
CAS: 112926-00-8 RTECS: RTECS: VV7	Precipitated silica gel (Silica-Amorphous)	<3%
CAS: 301-10-0	stannous caprylate	<0.3%
CAS: 63148-57-2	Poly(methylhydrosiloxane)	<0.1%
CAS: 6358-31-2	Luna Yellow ⚠ Acute toxicity - oral 4, H302; Skin irritation 2, H315; Eye irritation 2A, H319	<0.1%

**Additional information:**

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

### 4 First-Aid Measures

**Description of first aid measures****General information:** If symptoms persist, call a physician.

(Contd. on page 3)



## Safety Data Sheet

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2024 and GHS Rev 07

Date of issue: 10/29/2024

Revised on 10/29/2024

**Trade Name: ABC Dry Chemical Fire Extinguishant****After inhalation:** Move victim to fresh air. If irritation develops or persists, seek medical attention.**After skin contact:**

Wash with plenty of soap and water. If irritation develops or persists, seek medical attention.

**After eye contact:**

Flush eyes with water until pain-free. If irritation develops or persists, seek medical attention.

**After swallowing:**

If victim is conscious and alert, give 2-3 glasses of water to drink. Do not induce vomiting. If vomiting occurs and the victim is conscious, give additional water to further dilute the chemical. Prevent aspiration of swallowed product by laying victim on side with head lower than their waist. Seek medical attention. Do not leave victim unattended.

**Most important symptoms and effects, both acute and delayed:** No further relevant information available.**Indication of any immediate medical attention and special treatment needed:** Treat symptomatically.

### 5 Fire-Fighting Measures

**Extinguishing media****Suitable extinguishing agents:**

This product is an extinguishing agent. It is nonflammable and noncombustible.

**For safety reasons unsuitable extinguishing agents:** No further relevant information.**Special hazards arising from the substance or mixture:**

This product may decompose in fire and release oxides of carbon, potassium, and nitrogen (Refer to Section X).

**Advice for firefighters****Special protective equipment for firefighters:**

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

### 6 Accidental Release Measures

**Personal precautions, protective equipment and emergency procedures:**

In case of accidental release, use the appropriate respiratory protection. Clean up the product using a vacuum or wet sweep and shovel to minimize the generation of dust. Bag or drum the product for disposal. If the product is used and/or contaminated, use personal protective equipment and containment means that are appropriate for the composition of the mixture. Product should be prevented from entering waterways.

**Environmental precautions:** No special measures required.**Methods and material for containment and cleaning up:**

Dispose of contaminated material as waste according to section 13.

Ensure adequate ventilation.

Dispose of the collected material according to regulations.

**PAC-1:**

7722-76-1	Ammonium phosphate monobasic	17 mg/m <sup>3</sup>
7727-43-7	barium sulphate, natural	15 mg/m <sup>3</sup>
301-10-0	stannous caprylate	0.68 mg/m <sup>3</sup>
12001-26-2	Mica	9 mg/m <sup>3</sup>
63148-57-2	Poly(methylhydrosiloxane)	30 mg/m <sup>3</sup>
112926-00-8	Precipitated silica gel (Silica-Amorphous)	18 mg/m <sup>3</sup>

**PAC-2:**

7722-76-1	Ammonium phosphate monobasic	190 mg/m <sup>3</sup>
7727-43-7	barium sulphate, natural	170 mg/m <sup>3</sup>

(Contd. on page 4)



# Safety Data Sheet

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2024 and GHS Rev 07

Date of issue: 10/29/2024

Revised on 10/29/2024

**Trade Name: ABC Dry Chemical Fire Extinguishant**

301-10-0	stannous caprylate	110 mg/m <sup>3</sup>
12001-26-2	Mica	99 mg/m <sup>3</sup>
63148-57-2	Poly(methylhydrosiloxane)	330 mg/m <sup>3</sup>
112926-00-8	Precipitated silica gel (Silica-Amorphous)	200 mg/m <sup>3</sup>

**PAC-3:**

7722-76-1	Ammonium phosphate monobasic	1,100 mg/m <sup>3</sup>
7727-43-7	barium sulphate, natural	990 mg/m <sup>3</sup>
301-10-0	stannous caprylate	670 mg/m <sup>3</sup>
12001-26-2	Mica	590 mg/m <sup>3</sup>
63148-57-2	Poly(methylhydrosiloxane)	2,000 mg/m <sup>3</sup>
112926-00-8	Precipitated silica gel (Silica-Amorphous)	1,200 mg/m <sup>3</sup>

**Reference to other sections:**

See Section 7 for information on safe handling.  
 See Section 8 for information on personal protection equipment.  
 See Section 13 for disposal information.

## 7 Handling and Storage

**Precautions for safe handling:** Ensure good ventilation/exhaustion at the workplace.  
**Information about protection against explosions and fires:** No special measures required.

**Conditions for safe storage, including any incompatibilities**  
**Storage**

**Requirements to be met by storerooms and receptacles:** No special requirements.  
**Information about storage in one common storage facility:** Not required.  
**Further information about storage conditions:** Keep receptacle tightly sealed.

**Specific end use(s):** No further relevant information available.

## 8 Exposure Controls/Personal Protection

**Control parameters:**

**Components with occupational exposure limits:**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.  
 At this time, the other constituents have no known exposure limits.

<b>7727-43-7 barium sulphate, natural</b>	
PEL	Long-term value: 15* 5** mg/m <sup>3</sup> *total dust **respirable fraction
REL	Long-term value: 10* 5** mg/m <sup>3</sup> *total dust **respirable fraction
TLV	Long-term value: 5* mg/m <sup>3</sup> *inhalable fraction; E
<b>12001-26-2 Mica</b>	
PEL	Long-term value: 20 mppcf ppm <1% crystalline silica
REL	Long-term value: 3* mg/m <sup>3</sup> *respirable dust; containing < 1% quartz

(Contd. on page 5)



# Safety Data Sheet

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2024 and GHS Rev 07

Date of issue: 10/29/2024

Revised on 10/29/2024

Trade Name: ABC Dry Chemical Fire Extinguishant

TLV	Long-term value: 0.1 mg/m <sup>3</sup> *Respirable particulate matter
<b>112926-00-8 Precipitated silica gel (Silica-Amorphous)</b>	
PEL	20mppcf or 80mg/m <sup>3</sup> /%SiO <sub>2</sub>
REL	Long-term value: 6 mg/m <sup>3</sup> See Pocket Guide App. C
TLV	TLV withdrawn

**Additional information:**

The lists that were valid during the creation of this SDS were used as basis.

**Exposure controls:**

**Appropriate engineering controls** No further data; see section 7.

**Personal protective equipment**

**General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing and wash before reuse.  
Wash hands before breaks and at the end of work.

**Breathing equipment:**

Use an N-95 dust mask for limited exposures and use air-purifying respirators with high efficiency particulate air filters (HEPA filters) for prolonged exposures.

**Protection of hands:**



Protective gloves

**Material of gloves:** Not applicable.

**Penetration time of glove material:** Not applicable.

**Eye protection:**



Safety glasses

**Limitation and supervision of exposure into the environment:** None

## 9 Physical and Chemical Properties

**Information on basic physical and chemical properties**

**General Information**

**Physical state**

Gaseous

**Color:**

Yellow

**Odor:**

Odorless

**Odor threshold:**

Not determined.

**Melting point/Melting range:**

Not determined.

**Boiling point/Boiling range:**

Not determined.

**Flammability:**

Not determined.

**Explosion limits:**

**Lower:**

Not determined.

**Upper:**

Not determined.

**Flash point:**

None

**Auto igniting:**

Not applicable

(Contd. on page 6)



## Safety Data Sheet

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2024 and GHS Rev 07

Date of issue: 10/29/2024

Revised on 10/29/2024

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<b>Decomposition temperature:</b>	Not determined.
<b>pH-value @ 20 °C (68 °F):</b>	4-5
<b>Viscosity:</b>	
<b>Kinematic:</b>	Not determined.
<b>Dynamic:</b>	Not determined.
<b>Solubility in / Miscibility with:</b>	
<b>Water:</b>	Fully miscible.
<b>Partition coefficient (n-octanol/water):</b>	Not determined.
<b>Vapor pressure:</b>	Not determined.
<b>Vapor pressure:</b>	
<b>Density @ 20 °C (68 °F):</b>	0.82 g/cm <sup>3</sup> (6.8429 lbs/gal)
<b>Relative density:</b>	Not determined.
<b>Vapor density:</b>	Not determined.
<b>Particle characteristics</b>	Not applicable.
<b>Other information:</b>	
<b>Appearance:</b>	
<b>Form:</b>	Gaseous
<b>Important information on protection of health and environment, and on safety.</b>	
<b>Ignition temperature:</b>	Product is not self-igniting.
<b>Danger of explosion:</b>	Not determined.
<b>Solvent content:</b>	
<b>VOC content:</b>	0.00 %
<b>Solids content:</b>	<97.1 %
<b>Change in condition</b>	
<b>Evaporation rate:</b>	Not applicable.

### 10 Stability and Reactivity

**Reactivity:** Pressurized containers may rupture or explode if exposed to high heat**Chemical stability:** Product is stable under normal conditions.**Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

**Possibility of hazardous reactions:** No dangerous reactions known.**Conditions to avoid:** No further relevant information available.**Incompatible materials:**

Magnesium, strong oxidizers such as calcium hypochlorite (pool chlorine), strong alkalis, and isocyanic acids.

**Hazardous decomposition products:**

This product may decompose in fire and release carbon monoxide, carbon dioxide, and sulfur dioxide.

Oxides of phosphorous and ammonia have been reported.

### 11 Toxicological Information

**Information on toxicological effects:****Acute toxicity:****LD/LC50 values that are relevant for classification:****7722-76-1 Ammonium phosphate monobasic**

Oral	LD50	5,750 mg/kg (Rat)
Dermal	LD50	7,640 mg/kg (rabbit)

(Contd. on page 7)



# Safety Data Sheet

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2024 and GHS Rev 07

Date of issue: 10/29/2024

Revised on 10/29/2024

Trade Name: ABC Dry Chemical Fire Extinguishant

<b>112926-00-8 Precipitated silica gel (Silica-Amorphous)</b>		
Oral	LD50	>5,000 mg/kg (Rat)

**Primary irritant effect:**

**On the skin:** No irritating effect.

**On the eye:** Irritating effect.

**Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

**Interactive effects** No interactive effects between components are known.

**Carcinogenic categories:**

**IARC (International Agency for Research on Cancer):**

None of the ingredients are listed.

**NTP (National Toxicology Program):**

None of the ingredients are listed.

**OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.

**Alternative sources for toxicological information**

No non-standard sources for toxicological information where used.

## 12 Ecological Information

**Toxicity:**

**Aquatic toxicity:**

<b>112926-00-8 Precipitated silica gel (Silica-Amorphous)</b>		
EC50		>1,000 mg/l (Daphnia)

**Persistence and degradability:** No further relevant information available.

**Bioaccumulative potential:** No further relevant information available.

**Mobility in soil:** No further relevant information available.

**Results of PBT and vPvB assessment:**

**PBT:** Not applicable.

**vPvB:** Not applicable.

**Other adverse effects:**

**Additional ecological information:**

**General notes:** Not known to be hazardous to water.

## 13 Disposal Considerations

**Waste treatment methods**

**Recommendation:**

Observe all federal, state and local environmental regulations when disposing of this material.

**Uncleaned packaging**

**Recommendation:** Disposal must be made according to official regulations.

**Recommended cleansing agent:** Water, if necessary with cleansing agents.

## 14 Transport Information

**UN-Number:**

**DOT, ADR/ADN, IMDG, IATA**

UN1044



# Safety Data Sheet

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2024 and GHS Rev 07

Date of issue: 10/29/2024

Revised on 10/29/2024

**Trade Name: ABC Dry Chemical Fire Extinguishant**

**UN proper shipping name:**

**DOT**  
**ADR/ADN**  
**IMDG, IATA**

Fire extinguishers  
UN1044 FIRE EXTINGUISHERS  
FIRE EXTINGUISHERS

**Transport hazard class(es):**

**DOT**



**Class:** 2 Gases  
**Label:** 2.2

**ADR/ADN**



**Class:** 2 6A Gases  
**Label:** 2.2

**IMDG, IATA**



**Class:** 2 Gases  
**Label:** 2.2

**Packing group:**

**DOT, ADR/ADN, IMDG, IATA**

Non-Regulated Material

**Environmental hazards:**

Not applicable.

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:**

Not applicable.

**Transport/Additional information:**

**DOT**

**Quantity limitations:** On passenger aircraft/rail: 75 kg  
On cargo aircraft only: 150 kg

**ADR/ADN**

**Excepted quantities (EQ):** Code: E0  
Not permitted as Excepted Quantity

**IMDG**

**Limited quantities (LQ):** 120 ml  
**Excepted quantities (EQ):** Code: E0  
Not permitted as Excepted Quantity

**Special precautions for user:**

Warning: Gases

**Hazard identification number (Kemler code):** -

**EMS Number:** F-C,S-V

**Stowage Category:** A





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OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2024 and GHS Rev 07

Date of issue: 10/29/2024

Revised on 10/29/2024

Trade Name: ABC Dry Chemical Fire Extinguishant

UN "Model Regulation":

UN 1044 FIRE EXTINGUISHERS, 2.2

## 15 Regulatory Information

### Safety, health and environmental regulations/legislation specific for the substance or mixture:

No further relevant information available.

#### SARA (Superfund Amendments and Reauthorization):

##### Section 355 (extremely hazardous substances):

None of the ingredients are listed.

##### Section 313 (Specific toxic chemical listings):

7727-43-7 barium sulphate, natural

#### TSCA (Toxic Substances Control Act):

7722-76-1	Ammonium phosphate monobasic	ACTIVE
7727-43-7	barium sulphate, natural	ACTIVE
301-10-0	stannous caprylate	ACTIVE
63148-57-2	Poly(methylhydrosiloxane)	ACTIVE
6358-31-2	Luna Yellow	ACTIVE

#### Hazardous Air Pollutants

None of the ingredients are listed.

#### California Proposition 65:

##### Chemicals known to cause cancer:

None of the ingredients are listed.

##### Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

##### Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

##### Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

#### New Jersey Right-to-Know List:

7727-43-7	barium sulphate, natural
12001-26-2	Mica
112926-00-8	Precipitated silica gel (Silica-Amorphous)

#### New Jersey Special Hazardous Substance List:

None of the ingredients are listed.

#### Pennsylvania Right-to-Know List:

7727-43-7	barium sulphate, natural
12001-26-2	Mica

#### Pennsylvania Special Hazardous Substance List:

None of the ingredients are listed.

#### Carcinogenic categories:

##### EPA (Environmental Protection Agency):

7727-43-7	barium sulphate, natural	D, CBD(inh), NL(oral)
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(Contd. on page 10)



# Safety Data Sheet

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2024 and GHS Rev 07

Date of issue: 10/29/2024

Revised on 10/29/2024

**Trade Name: ABC Dry Chemical Fire Extinguishant**

<b>TLV (Threshold Limit Value established by ACGIH):</b>
None of the ingredients are listed.
<b>NIOSH-Ca (National Institute for Occupational Safety and Health):</b>
None of the ingredients are listed.

**GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

**Hazard pictograms:**



**Signal word:** Warning

**Hazard-determining components of labeling:**

Ammonium phosphate monobasic

**Hazard statements:**

H280 Contains gas under pressure; may explode if heated.

H320 Causes eye irritation.

**Precautionary statements:**

P264 Wash thoroughly after handling.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

P410+P403 Protect from sunlight. Store in a well-ventilated place.

<b>National regulations:</b>
The product is not subject to be labelled according with the prevailing version of the regulations on hazardous substances.

**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

**Date of preparation** 10/29/2024

**Abbreviations and acronyms:**

- ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road
- ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
- IMDG: International Maritime Code for Dangerous Goods
- DOT: US Department of Transportation
- IATA: International Air Transport Association
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- NFPA: National Fire Protection Association (USA)
- HMIS: Hazardous Materials Identification System (USA)
- VOC: Volatile Organic Compounds (USA, EU)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- NIOSH: National Institute for Occupational Safety and Health
- OSHA: Occupational Safety & Health Administration



## Safety Data Sheet

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2024 and GHS Rev 07

Date of issue: 10/29/2024

Revised on 10/29/2024

**Trade Name: ABC Dry Chemical Fire Extinguishant**

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Gases under pressure - Compressed gas: Gases under pressure – Compressed gas

Acute toxicity - oral 4: Acute toxicity – Category 4

Skin irritation 2: Skin corrosion/irritation – Category 2

Eye irritation 2A: Serious eye damage/eye irritation – Category 2A

Eye irritation 2B: Serious eye damage/eye irritation – Category 2B

Specific target organ toxicity (single exposure) 3: Specific target organ toxicity (single exposure) – Category 3

**\* Data compared to the previous version altered.**

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