



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.

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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)



Health = 1
Fire = 0
Reactivity = 0

HMIS-ratings (scale 0 - 4)



Health = 1
Fire = 0
Physical Hazard = 0

Hazard(s) not otherwise classified (HNO): 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.

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

PAC-2:

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

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301-10-0	stannous caprylate	110 mg/m ³
12001-26-2	Mica	99 mg/m ³
63148-57-2	Poly(methylhydrosiloxane)	330 mg/m ³
112926-00-8	Precipitated silica gel (Silica-Amorphous)	200 mg/m ³
PAC-3:		
7722-76-1	Ammonium phosphate monobasic	1,100 mg/m ³
7727-43-7	barium sulphate, natural	990 mg/m ³
301-10-0	stannous caprylate	670 mg/m ³
12001-26-2	Mica	590 mg/m ³
63148-57-2	Poly(methylhydrosiloxane)	2,000 mg/m ³
112926-00-8	Precipitated silica gel (Silica-Amorphous)	1,200 mg/m ³

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.

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

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TLV	Long-term value: 0.1 mg/m ³ *Respirable particulate matter
112926-00-8 Precipitated silica gel (Silica-Amorphous)	
PEL	20mppcf or 80mg/m ³ /%SiO ₂
REL	Long-term value: 6 mg/m ³ 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

Color:

Odor:

Odor threshold:

Melting point/Melting range:

Boiling point/Boiling range:

Flammability:

Explosion limits:

Lower:

Upper:

Flash point:

Auto igniting:

Gaseous

Yellow

Odorless

Not determined.

Not determined.

Not determined.

Not determined.

Not determined.

Not determined.

None

Not applicable

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Trade Name: ABC Dry Chemical Fire Extinguishant

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

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Trade Name: ABC Dry Chemical Fire Extinguishant

112926-00-8 Precipitated silica gel (Silica-Amorphous)		
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:

112926-00-8 Precipitated silica gel (Silica-Amorphous)		
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

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Trade Name: ABC Dry Chemical Fire Extinguishant

UN proper shipping name:

DOT

ADR/ADN

IMDG, IATA

Transport hazard class(es):

DOT



Class:

Label:

2 Gases

2.2

ADR/ADN



Class:

Label:

2 6A Gases

2.2

IMDG, IATA



Class:

Label:

2 Gases

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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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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Trade Name: ABC Dry Chemical Fire Extinguishant

TLV (Threshold Limit Value established by ACGIH):

None of the ingredients are listed.

NIOSH-Ca (National Institute for Occupational Safety and Health):

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.

National regulations:

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

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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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