



# Safety Data Sheet

according to 29 CFR 1910.1200 App D

## ABC Dry Chemical Fire Extinguishant (Pressurized and Non-pressurized)

Version number: 1.3

Date of compilation: 2026-01-15

### SECTION 1: Identification

#### 1.1 Product identifier

Trade name	<b>ABC Dry Chemical Fire Extinguishant (Pressurized and Non-pressurized)</b>
Alternative name(s)	Multi-purpose Dry Chemical
Alternative number(s)	411, 417, 419, 423, 424, 425, 441, 443, 450, 456, 461, 464, 467, 470, 473, 476, 481, 487, 488, 491, 495, 500, 564, 567, 573, 581, 589, 592, 594, 668, 692, 713, 714, 715, 720, 756, 760, 763, 781, 790, 791, 792, CH550, F15, F18

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Fire suppression, not for human or animal drug use
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#### 1.3 Details of the supplier of the safety data sheet

Amerex Corporation  
7595 Gadsden Highway, P.O. Box 81  
Trussville AL 35173-0081  
United States

Phone: (205) 655-3271  
e-mail: info@amerex-fire.com  
Website: www.amerex-fire.com

#### 1.4 Emergency telephone number

Emergency contacts	Chemtrec 1(800) 424-9300 or (703) 527-3887 This number is only available during the following office hours: Mon-Fri 08:00 AM - 05:00 PM
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### SECTION 2: Hazard(s) identification

#### 2.1 Classification of the substance or mixture

Classification according to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Section	Hazard class	Category	Hazard class and category	Hazard statement
A.2	skin corrosion/irritation	2	Skin Irrit. 2	H315
A.3	serious eye damage/eye irritation	2A	Eye Irrit. 2A	H319
A.8R	specific target organ toxicity - single exposure (respiratory tract irritation)	3	STOT SE 3	H335
B.3	aerosols	3	Aerosol 3	H229

For full text of abbreviations: see SECTION 16.

#### 2.2 Label elements

Labelling according to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)



# Safety Data Sheet

according to 29 CFR 1910.1200 App D

## ABC Dry Chemical Fire Extinguishant (Pressurized and Non-pressurized)

Version number: 1.3

Date of compilation: 2026-01-15

- Signal word warning

- Pictograms



If Not Pressurized: Warning.

- Hazard statements

H229 Pressurized container: may burst if heated.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.

- Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P251 Do not pierce or burn, even after use.  
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves.  
P302+P352 If on skin: Wash with plenty of water.  
P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P312 Call a poison center/doctor if you feel unwell.  
P321 Specific treatment (see on this label).  
P362+P364 Take off contaminated clothing and wash it before reuse.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 122 °F (50 °C).  
P501 Dispose of contents/container to industrial combustion plant.

- Hazardous ingredients for labelling Mono-ammonium phosphate, Attapulgit-type clay

### 2.3 Other hazards

Hazards not otherwise classified

May be harmful if swallowed (GHS category 5: acutely toxic - oral).  
May be harmful in contact with skin (GHS category 5: acutely toxic - dermal).  
May be harmful if inhaled (GHS category 5: acutely toxic - inhalation).  
Harmful to aquatic life (GHS category 3: aquatic toxicity - acute).

Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of  $\geq 0.1\%$ .

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of  $\geq 0.1\%$ .

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not relevant (mixture)

### 3.2 Mixtures



# Safety Data Sheet

according to 29 CFR 1910.1200 App D

## ABC Dry Chemical Fire Extinguishant (Pressurized and Non-pressurized)

Version number: 1.3

Date of compilation: 2026-01-15

### Description of the mixture

Name of substance	CAS No	EC No	REACH Reg. No	Wt%	Classification acc. to GHS	Pictograms
Mono-ammonium phosphate	7722-76-1	231-764-5	01-2119488166-29-xxxx	55 - 77	Skin Irrit. 2 / H315 Eye Irrit. 2A / H319 STOT SE 3 / H335	
Attapulgite-type clay	8031-18-3			3 - 8	STOT SE 3 / H335	
Calcium carbonate	471-34-1	207-439-9	01-2119486795-18-xxxx	< 1	Acute Tox. 4 / H332 cD / OSHA003	
Yellow 14 pigment - diazo dye	5468-75-7	226-789-3	01-2119475454-33-xxxx	< 1	Acute Tox. 4 / H332 cD / OSHA003	

### Remarks

For full text of abbreviations: see SECTION 16

## SECTION 4: First-aid measures

### 4.1 Description of first-aid measures

#### General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

#### Following skin contact

Wash with plenty of soap and water.

#### Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

#### Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

### 4.3 Indication of any immediate medical attention and special treatment needed

none

## SECTION 5: Fire-fighting measures

### 5.1 Extinguishing media

Suitable extinguishing media

Water spray, BC-powder

Unsuitable extinguishing media



# Safety Data Sheet

according to 29 CFR 1910.1200 App D

## ABC Dry Chemical Fire Extinguishant (Pressurized and Non-pressurized)

Version number: 1.3

Date of compilation: 2026-01-15

Water jet

### 5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Ammonia (NH<sub>3</sub>), Phosphorus oxides (P<sub>x</sub>O<sub>y</sub>), Nitrogen oxides (NO<sub>x</sub>), Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Sulfur dioxide (SO<sub>2</sub>)

### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

### 6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Take precautionary measures against static discharge. Use only in well-ventilated areas. Ground/bond container and receiving equipment.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink or smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

### 7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

- Flammability hazards

Do not spray on an open flame or other ignition source. Protect from sunlight.

- Packaging compatibilities



# Safety Data Sheet

according to 29 CFR 1910.1200 App D

## ABC Dry Chemical Fire Extinguishant (Pressurized and Non-pressurized)

Version number: 1.3

Date of compilation: 2026-01-15

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.

### 7.3 Specific end use(s)

See section 16 for a general overview.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m <sup>3</sup> ]	STEL [ppm]	STEL [mg/m <sup>3</sup> ]	Ceiling-C [ppm]	Ceiling-C [mg/m <sup>3</sup> ]	Notation	Source
US	calcium carbonate	471-34-1	REL		5 (10 h)					r, synthetic	NIOSH REL
US	calcium carbonate	471-34-1	REL		10 (10 h)					synthetic	NIOSH REL
US	nitrogen	7727-37-9	PEL (CA)							asphyx(+expl)	Cal/OSHA PEL
US	nitrogen	7727-37-9	TLV®							oxygen, asphyx	ACGIH® 2025

**Notation**

- asphyx      simple asphyxiants
- asphyx(+expl)      A number of gases and vapors, when present in high concentrations, act primarily as asphyxiants without other adverse effects. A concentration limit is not included for each material because the limiting factor is the available oxygen. (Several of these materials present fire or explosion hazards.)
- Ceiling-C      ceiling value is a limit value above which exposure should not occur
- oxygen      Adequate oxygen delivery to the tissues is necessary for sustaining life
- r      respirable fraction
- STEL      short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)
- synthetic      synthetic
- TWA      time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

Relevant DNELs of components

Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Mono-ammonium phosphate	7722-76-1	DNEL	5.9 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Mono-ammonium phosphate	7722-76-1	DNEL	8.3 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Calcium carbonate	471-34-1	DNEL	6.36 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - local effects
Yellow 14 pigment - diazo dye	5468-75-7	DNEL	3 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Yellow 14 pigment - diazo dye	5468-75-7	DNEL	3 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - systemic effects
Yellow 14 pigment - diazo dye	5468-75-7	DNEL	3 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - local effects



# Safety Data Sheet

according to 29 CFR 1910.1200 App D

## ABC Dry Chemical Fire Extinguishant (Pressurized and Non-pressurized)

Version number: 1.3

Date of compilation: 2026-01-15

Relevant DNELs of components						
Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Yellow 14 pigment - diazo dye	5468-75-7	DNEL	3 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - local effects

Relevant PNECs of components						
Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
Mono-ammonium phosphate	7722-76-1	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Calcium carbonate	471-34-1	PNEC	100 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)

### 8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

Wear protective gloves.

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state (non-pressurized)	powder
Physical state (pressurized)	aerosol
Color	light yellow
Odor	odorless
Melting point/freezing point	190 – 280 °C
Boiling point or initial boiling point and boiling	not determined



# Safety Data Sheet

according to 29 CFR 1910.1200 App D

## ABC Dry Chemical Fire Extinguishant (Pressurized and Non-pressurized)

Version number: 1.3

Date of compilation: 2026-01-15

range	
Flammability	non-flammable aerosol in accordance with GHS criteria
Lower and upper explosion limit	not determined
Flash point	not determined
Auto-ignition temperature	not determined
Decomposition temperature	100 – 120 °C
pH (value)	4 – 5 (in aqueous solution: 20 g/l)
Kinematic viscosity	not relevant

### Solubility(ies)

Water solubility	Coated - not immediately soluble in water
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### Partition coefficient

Partition coefficient n-octanol/water (log value)	-4 – -3.5 (25 °C)
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Vapor pressure	<0.001 Pa at 20 °C
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### Density and/or relative density

Density	1.77 – 1.8 g/cm <sup>3</sup> at 25 °C
Relative vapour density	information on this property is not available

Particle characteristics	not relevant (aerosol)
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## 9.2 Other information

Information with regard to physical hazard classes

Aerosols

- Components (flammable)	0 %
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Other safety characteristics

Liquid content	12.8 %
Solid content	100 %



# Safety Data Sheet

according to 29 CFR 1910.1200 App D

## ABC Dry Chemical Fire Extinguishant (Pressurized and Non-pressurized)

Version number: 1.3

Date of compilation: 2026-01-15

Propellant content

0 %

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

The mixture contains reactive substance(s). Risk of ignition. Stable under normal conditions of use.

#### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

#### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4 Conditions to avoid

Do not spray on an open flame or other ignition source. Keep away from heat. Storage and handling near incompatibles.

Hints to prevent fire or explosion

Protect from sunlight.

#### 10.5 Incompatible materials

Strong alkalis, Strong oxidizers, Magnesium, Isocyanuric acids, Chlorine compounds

#### 10.6 Hazardous decomposition products

Ammonia (NH<sub>3</sub>), Phosphorus oxides (P<sub>x</sub>O<sub>y</sub>), Nitrogen oxides (NO<sub>x</sub>), Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Sulfur dioxide (SO<sub>2</sub>)

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### Classification according to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Acute toxicity

Shall not be classified as acutely toxic.

GHS of the United Nations, annex 4: May be harmful if swallowed, in contact with skin or if inhaled.

#### Acute toxicity estimate (ATE) of components

Name of substance	CAS No	Exposure route	ATE
Mono-ammonium phosphate	7722-76-1	oral	>2,000 mg/kg
Mono-ammonium phosphate	7722-76-1	inhalation: dust/mist	>5 mg/l/4h
Calcium carbonate	471-34-1	oral	>2,000 mg/kg
Calcium carbonate	471-34-1	dermal	>2,000 mg/kg
Calcium carbonate	471-34-1	inhalation: dust/mist	>3 mg/l/4h
Yellow 14 pigment - diazo dye	5468-75-7	dermal	>3,000 mg/kg
Yellow 14 pigment - diazo dye	5468-75-7	inhalation: dust/mist	>4.25 mg/l/4h

Skin corrosion/irritation



# Safety Data Sheet

according to 29 CFR 1910.1200 App D

## ABC Dry Chemical Fire Extinguishant (Pressurized and Non-pressurized)

Version number: 1.3

Date of compilation: 2026-01-15

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Shall not be classified as a respiratory or skin sensitizer.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

May cause respiratory irritation.

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

### SECTION 12: Ecological information

#### 12.1 Toxicity

Harmful to aquatic life.

Aquatic toxicity (acute) of components					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Mono-ammonium phosphate	7722-76-1	LC50	>100 mg/l	rainbow trout ( <i>Oncorhynchus mykiss</i> )	96 h
Mono-ammonium phosphate	7722-76-1	EC50	>100 mg/l	daphnia magna	48 h
Calcium carbonate	471-34-1	EC50	>14 mg/l	algae	72 h
Yellow 14 pigment - diazo dye	5468-75-7	LC50	>100 mg/l	zebra fish ( <i>Danio rerio</i> )	24 h
Yellow 14 pigment - diazo dye	5468-75-7	EC50	>100 mg/l	daphnia magna	48 h

#### 12.2 Persistence and degradability

Data are not available.

#### 12.3 Bioaccumulative potential

Data are not available.

#### 12.4 Mobility in soil

Data are not available.

#### 12.5 Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of  $\geq 0.1\%$ .



# Safety Data Sheet

according to 29 CFR 1910.1200 App D

## ABC Dry Chemical Fire Extinguishant (Pressurized and Non-pressurized)

Version number: 1.3

Date of compilation: 2026-01-15

### 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of  $\geq 0.1\%$ .

### 12.7 Other adverse effects

Data are not available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid accidental release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packages

Only packagings which are approved (e.g. acc. to DOT) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

#### Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

## SECTION 14: Transport information

- |      |                            |   |
|------|----------------------------|---|
| 14.1 | UN number                  | not assigned  |
| 14.2 | UN proper shipping name    | not assigned  |
| 14.3 | Transport hazard class(es) | none  |
| 14.4 | Packing group              | not assigned  |
| 14.5 | Environmental hazards      | non-environmentally hazardous acc. to the dangerous goods regulations |
- 14.6 Special precautions for user**
- The transportation information above covers the ABC 550 dry chemical extinguisher agent as shipped in bulk containers, but 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 when pressurized will be "Fire Extinguishers", and the UN number will be UN1044. The transport hazard class with division is "2.2".
- When pressurized to less than 241 psi, the item shall be designated Limited Qty (LTD QTY) within the 48 contiguous United States. If pressurized to 241 psi or higher, the item will be designated NON-FLAMMABLE GAS.
- 14.7 Transport in bulk according to IMO instruments**
- The cargo is not intended to be carried in bulk.

### Information for each of the UN Model Regulations

#### Transport of dangerous goods by road or rail (49 CFR US DOT) - Additional information

not assigned

#### International Maritime Dangerous Goods Code (IMDG) - Additional information

not assigned

#### International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

not assigned



# Safety Data Sheet

according to 29 CFR 1910.1200 App D

## ABC Dry Chemical Fire Extinguishant (Pressurized and Non-pressurized)

Version number: 1.3

Date of compilation: 2026-01-15

### SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations specific for the product in question

##### National regulations (United States)

**Toxic Substance Control Act (TSCA)** not all ingredients are listed (ACTIVE)

##### Superfund Amendment and Reauthorization Act (SARA TITLE III )

- The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)

none of the ingredients are listed

- Specific Toxic Chemical Listings (EPCRA Section 313)

none of the ingredients are listed

##### Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

- List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)

none of the ingredients are listed

##### Clean Air Act

none of the ingredients are listed

##### Industry or sector specific available guidance(s)

##### NPCA-HMIS® III

Hazardous Materials Identification System. American Coatings Association.

Category	Rating	Description
Chronic	/	none
Health	2	temporary or minor injury may occur
Flammability	0	material that will not burn under typical fire conditions
Physical hazard	0	material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive
Personal protection	-	

##### NFPA® 704

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).

Category	Degree of hazard	Description
Flammability	0	material that will not burn under typical fire conditions
Health	2	material that, under emergency conditions, can cause temporary incapacitation or residual injury
Instability	0	material that is normally stable, even under fire conditions
Special hazard		



# Safety Data Sheet

according to 29 CFR 1910.1200 App D

## ABC Dry Chemical Fire Extinguishant (Pressurized and Non-pressurized)

Version number: 1.3

Date of compilation: 2026-01-15

### National inventories

Country	Inventory	Status
US	TSCA	not all ingredients are listed

Legend

TSCA Toxic Substance Control Act

### 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

### SECTION 16: Other information, including date of preparation or last revision

#### Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
1.3	Details of the supplier of the safety data sheet: Amerex Corporation 7595 Gadsden Highway, P.O. Box 81 Trussville AL 35173-0081 United States  Telephone: (205) 655-3271 e-mail: info@amerex-fire.com Website: www.amerex-fire.com	Details of the supplier of the safety data sheet: Amerex Corporation 7595 Gadsden Highway, P.O. Box 81 Trussville AL 35173-0081 United States  Phone: (205) 655-3271 e-mail: info@amerex-fire.com Website: www.amerex-fire.com	yes
2.2	- Pictograms: If Not Pressurized: Warning. exclamation mark Pressurized: Warning, Gas Under Pressure. exclamation mark gas cylinder	- Pictograms: If Not Pressurized: Warning. exclamation mark	yes
4.1	Following skin contact: Rinse skin with water/shower.	Following skin contact: Wash with plenty of soap and water.	yes
5.1	Suitable extinguishing media: Water, Foam, ABC-powder	Suitable extinguishing media: Water spray, BC-powder	yes
5.2	Special hazards arising from the substance or mixture: Deposited combustible dust has considerable explosion potential.	Special hazards arising from the substance or mixture	yes
6.3	Advice on how to contain a spill: Covering of drains, Take up mechanically	Advice on how to contain a spill: Covering of drains	yes
6.3	Advice on how to clean up a spill: Take up mechanically.		yes
7.1	Specific notes/details: Dust deposits may accumulate on all deposition surfaces in a technical room. The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.		yes
7.1	Advice on general occupational hygiene: Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are	Advice on general occupational hygiene: Wash hands after use. Do not eat, drink or smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are	yes



# Safety Data Sheet

according to 29 CFR 1910.1200 App D

## ABC Dry Chemical Fire Extinguishant (Pressurized and Non-pressurized)

Version number: 1.3

Date of compilation: 2026-01-15

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
	normally used for food or drink. Keep away from food, drink and animal feedingstuffs.	normally used for food or drink. Keep away from food, drink and animal feedingstuffs.	
7.2	- Explosive atmospheres: Removal of dust deposits.		yes
7.2	- Ventilation requirements: Use local and general ventilation.		yes
8.1		Occupational exposure limit values (Workplace Exposure Limits): change in the listing (table)	yes
8.2	Respiratory protection: Particulate filter device (EN 143).	Respiratory protection: In case of inadequate ventilation wear respiratory protection.	yes
9.1	Appearance		yes
9.1	Physical state: solid (powder, crystalline)	Physical state (non-pressurized): powder	yes
9.1		Physical state (pressurized): aerosol	yes
9.1	Other safety parameters		yes
9.1		Lower and upper explosion limit: not determined	yes
9.1	Flash point: not applicable	Flash point: not determined	yes
9.1	Evaporation rate: not determined		yes
9.1	Explosion limits of dust clouds: not determined		yes
9.1		Kinematic viscosity: not relevant	yes
9.1		Density and/or relative density	yes
9.1	Vapor density: this information is not available		yes
9.1	Viscosity: not relevant (solid matter)		yes
9.1	Explosive properties: none		yes
9.1	Oxidizing properties: none		yes
9.1		Relative vapour density: information on this property is not available	yes
9.1		Particle characteristics: not relevant (aerosol)	yes
9.2		Information with regard to physical hazard classes	yes
9.2		Aerosols	yes
9.2		Components (flammable):	yes



# Safety Data Sheet

according to 29 CFR 1910.1200 App D

## ABC Dry Chemical Fire Extinguishant (Pressurized and Non-pressurized)

Version number: 1.3

Date of compilation: 2026-01-15

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
		0 %	
9.2		Other safety characteristics	yes
9.2		Propellant content: 0 %	yes
10.4	Hints to prevent fire or explosion: The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.	Hints to prevent fire or explosion: Protect from sunlight.	yes
13.1	Sewage disposal-relevant information: Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.	Sewage disposal-relevant information: Do not empty into drains. Avoid accidental release to the environment. Refer to special instructions/safety data sheets.	yes
14.6	Special precautions for user: The transportation information above covers the ABC 550 dry chemical extinguisher agent as shipped in bulk containers but 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.	Special precautions for user: The transportation information above covers the ABC 550 dry chemical extinguisher agent as shipped in bulk containers, but 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 when pressurized will be "Fire Extinguishers", and the UN number will be UN1044. The transport hazard class with division is "2.2".  When pressurized to less than 241 psi, the item shall be designated Limited Qty (LTD QTY) within the 48 contiguous United States. If pressurized to 241 psi or higher, the item will be designated NON-FLAMMABLE GAS.	yes
16		Abbreviations and acronyms: change in the listing (table)	yes
16	Classification procedure: Physical and chemical properties: The classification is based on tested mixture. Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).	Classification procedure: Physical and chemical properties: The classification is based on the tested mixture and/or formulator knowledge. Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).	yes

### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
49 CFR US DOT	49 CFR U.S. Department of Transportation
ACGIH® 2025	From ACGIH®, 2025 TLVs® and BEIs® Book. Copyright 2025. Reprinted with permission. Information on the proper use of the TLVs® and BEIs®: <a href="http://www.acgih.org/tlv-bei-guidelines/policies-procedures-presentations/tlv-bei-position-statement">http://www.acgih.org/tlv-bei-guidelines/policies-procedures-presentations/tlv-bei-position-statement</a>
Acute Tox.	Acute toxicity
ATE	Acute Toxicity Estimate
Cal/OSHA PEL	California Division of Occupational Safety and Health (Cal/OSHA): Permissible Exposure Limits (PELs)



# Safety Data Sheet

according to 29 CFR 1910.1200 App D

## ABC Dry Chemical Fire Extinguishant (Pressurized and Non-pressurized)

Version number: 1.3

Date of compilation: 2026-01-15

Abbr.	Descriptions of used abbreviations
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
cD	Combustible dust
Ceiling-C	Ceiling value
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
DOT	Department of Transportation (USA)
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
ED	Endocrine disruptor
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
NIOSH REL	National Institute for Occupational Safety and Health (NIOSH): Recommended Exposure Limits (RELs)
NLP	No-Longer Polymer
NPCA-HMIS® III	National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition
OSHA	Occupational Safety and Health Administration (United States)
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
STEL	Short-term exposure limit
STOT SE	Specific target organ toxicity - single exposure
TLV®	Threshold Limit Values
TWA	Time-weighted average
vPvB	Very Persistent and very Bioaccumulative



# Safety Data Sheet

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### Key literature references and sources for data

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.  
Transport of dangerous goods by road or rail (49 CFR US DOT). International Maritime Dangerous Goods Code (IMDG).  
Dangerous Goods Regulations (DGR) for the air transport (IATA).

### Classification procedure

Physical and chemical properties: The classification is based on the tested mixture and/or formulator knowledge.  
Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

### List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H229	Pressurized container: may burst if heated.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
OSHA003	May form combustible dust concentrations in air.

### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.