



## Material Safety Data Sheet

**ABC EXTINGUISHER**  
According to Regulation (EC) No. 1907/2006 (REACH) &  
EC/1272/2008(CLP)  
**MSDS No.: AJT2022111528E**

### 1. PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 Product identifiers

**Product Name:** ABC extinguisher

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

**Identified uses:** Fire extinguisher

#### 1.3 Details of the supplier of the safety data sheet

**Company Name:** ZHEJIANG ORIENTX FIRE SAFETY EQUIPMENT CO., LTD

**Address:** WUCHEYAN, HUANGJIABU, YUYAO CITY, ZHEJIANG PROVINCE, 315466, CHINA

**Tel:** 86 574 62003911

**Fax:** 86 574 62003934

**Email:** elsa@orientxfire.com

#### 1.4 Emergency telephone number

**Emergency Telephone:** 86 574 62003911

### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008:

Eye Irritation: Class 2B

Skin Irritation: Class 3

Inhalation: Class 5

#### 2.2 Label Elements:

Hazard Symbols:



Signal Word: WARNING



#### Hazard Statements:

H313 May be harmful in contact with skin.

H320 Causes eye irritation

H333 May be harmful if inhaled.

#### Precautionary Statements:



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- P101 If medical advice is needed, have product container or label at hand.
- P102 Keep out of reach of children.
- P234 Keep in original container.
- P251 Pressurized container; do not pierce or burn, even after use
- P261 Avoid breathing dust
- P264 Wash hands and face thoroughly after handling
- P270 Do not eat, drink, or smoke when using this product
- P281 Use personal protective equipment as required
- P285 In case of inadequate ventilation, wear respiratory protection
- P301+322+331 If swallowed, drink 2-3 glasses of water and do not induce vomiting
- 302+352 If on skin, wash with soap and water
- 304+313+341 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.
- 305+351+338 If in eyes, rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do, and continue to rinse.
- 337+313 If eye irritation persists, get medical advice/attention.
- P401+402+403 Store in original container or extinguisher in a dry, well ventilated place.

### 2.3 Other hazards

This product is an inorganic mixture and does not meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance/Preparation:** Preparation

Ingredients Name		Content/%	CAS No.	EINECS No.	Classification (1272/2008/EC)
Barrel material(Carbon Steel coated with epoxy resin)		-	-	-	-
Dry Chemical	Ammonium dihydrogen phosphate	>95	7722-76-1	231-764-5	-
	Ammonium sulfate		7783-20-2	231-984-1	-
	Other none hazards materials	balance	NA	NA	-

**Note:**

- 1: Fire extinguishers contain compressed air to ensure a high velocity discharge of product.
- 2: This MSDS is prepared mainly according to the dry chemical inside the extinguisher.
- 3: Full text of H-Statements appearing in section 3: see section 16.



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### 4. FIRST AID MEASURES

#### 4.1 Eye Exposure

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

#### 4.2 Skin Exposure

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

#### 4.3 Inhalation

Move victim to fresh air. If irritation develops or persists, seek medical attention.

#### 4.4 Ingestion

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.

#### 4.5 Medical Conditions Possibly Aggravated by Exposure

Inhalation of the product may aggravate existing chronic respiratory conditions such as asthma, emphysema, or bronchitis. Contact with the skin may aggravate an existing skin disease. Chronic overexposure may cause pneumoconiosis ("Dusty Lung" disease).

### 5. FIRE FIGHTING MEASURES

**5.1 Extinguishing Media:** N/A. This product is an extinguishing agent. It is nonflammable and noncombustible.

**5.2 Special Firefighting Procedures:** N/A

**5.3 Unusual Fire and Explosion Hazards:** This product may decompose in fire and release oxides of carbon, potassium, and nitrogen (Refer to Section 10).

**5.4 Sensitivity to Mechanical Impact or Static Discharge:** None

### 6. ACCIDENTAL RELEASE MEASURES

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

In case of accidental release, use the appropriate respiratory protection.

#### 6.2 Environmental Precautions:

Product should be prevented from entering waterways.

#### 6.3 Methods for Containment and Cleaning up:

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.

### 7. HANDLING AND STORAGE



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### 7.1 Handling

Avoid eye, respiratory, and skin exposure. Use the appropriate personal protective equipment when handling. Wash thoroughly after handling (Refer to Section 8).

### 7.2 Storage

Product should be stored in its original container or extinguisher. When the product is contained under pressure (e.g., an extinguisher), inspect the container for rust or damage that may compromise the container integrity. Do not store the product in high humidity and do not mix with other extinguishing agents, particularly potassium bicarbonate based agents.

### 7.3 Special uses

Not applicable.

## 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

### 8.1 Engineering Controls

#### Exposure limit values

##### Nuisance dust limit:

OSHA TWA: 15 mg/m<sup>3</sup>

ACGIH TLV-TWA: 10 mg/ m<sup>3</sup>

During the use of this product on fires, exhaust gases and products of incomplete combustion are the main respiratory hazards. In the manufacture of this product, employers and employees must use their collective judgment in determining the on-the-job settings where the use of a dust mask or respirator is prudent. The need for respiratory protection is not likely for short-term use in well-ventilated areas.

### 8.2 Personal Precautions

**Respiratory Protection:** 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.

**Eye Protection:** Wear chemical goggles or full-face air-purifying respirator.

**Skin Protection:** Use nitrile, latex, or similar gloves and coveralls. Good personal hygiene practices are essential. After handling the product, avoid food, tobacco products, or other means of transferring the product from hand to mouth until after thoroughly washing.

### 8.3 EXPOSURE GUIDELINES

No data

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

**Appearance:** Yellow solid powder.

**Odor:** None

**PH:** 4.5 as 1% solution in water.



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**Boiling point/boiling range:** Not applicable  
**Flash point:** None  
**Flammability (solid/gas):** Not flammable  
**Explosive properties:** Not explosive  
**Oxidizing properties:** Not an oxidizer  
**Vapor pressure:** Not applicable  
**Relative Density:** Not applicable  
**Solubility:** Water solubility: 38 g/100 ml  
**Partition coefficient:** n-octanol/water: Not determined  
**Viscosity:** Not applicable  
**Vapor density (air=1):** Not applicable  
**Evaporation rate:** Not applicable  
**Auto-ignition temperature:** Does not ignite  
**9.2 Other information**  
No other information.

### 10. STABILITY AND REACTIVITY

**10.1 Stability:** Stable  
**10.2 Incompatibles:** Magnesium, strong oxidizers such as calcium hypochlorite (pool chlorine), strong alkalis, and isocyanuric acids.  
**10.3 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.  
**10.4 Hazardous Polymerization:** Will not occur  
**10.5 Hazardous Reactions:** None

### 11. TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

Product:  $(\text{NH}_4)_2\text{H}_2\text{PO}_4$

Acute toxicity	Not classified.
LD <sub>50</sub> oral (Rat)	5750 mg/kg
LD <sub>50</sub> dermal (Rabbit)	> 7940 mg/kg
Skin corrosion/irritation	Not classified.
pH: 4 – 5 (1 %)	
Serious eye damage/irritation	Not classified.
pH: 4 – 5 (1 %)	
Respiratory or skin sensitization	Not classified.



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Germ cell mutagenicity	Not classified.
Carcinogenicity	Not classified.
Reproductive toxicity	Not classified.
STOT – single exposure	Not classified.
STOT - repeated exposure	Not classified.
Aspiration hazard	Not classified.

Potential adverse human health effects and symptoms when used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

**11.2 Other information** Information on effects: refer to section 4.

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

Product:  $(\text{NH}_4)\text{H}_2\text{PO}_4$

Ecology - general	Classification concerning the environment: not applicable.
Ecology - air	Not dangerous for ozone layer (Council Regulation EC no 1005/2009).
Ecology - water	Mild water pollutant (surface water). Maximum concentration in drinking water: 0, 50 mg/l (ammonium) (Directive 98/83/EC). May cause eutrophication. pH shift.
LC <sub>50</sub> fish l	85, 9 mg/l

### 12.2 Persistence and degradability

Product:  $(\text{NH}_4)\text{H}_2\text{PO}_4$  In accordance with column 2 of REACH Annex VII, the ready biodegradability test does not need to be conducted as the substance is inorganic.

### 12.3 Bioaccumulative potential

Product:  $(\text{NH}_4)\text{H}_2\text{PO}_4$  According to literature, not bioaccumulative.  
Log Pow < 1

### 12.4 Mobility in soil

Product:  $(\text{NH}_4)\text{H}_2\text{PO}_4$   
Ecology - soil Soluble in water.

### 12.5 Results of PBT and vPvB assessment

Product:  $(\text{NH}_4)\text{H}_2\text{PO}_4$  This substance/mixture does not meet the PBT and vPvB criteria of REACH, annex XIII.

### 12.6 Other adverse effects

Adsorbed organic bound halogens (AOX)  
Product:  $(\text{NH}_4)\text{H}_2\text{PO}_4$  No additional information available.  
No other effects known.

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods



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Dispose of according to state or local laws, which may be more restrictive than federal regulations. Be aware that product used on a fire may be altered or contaminated and thereby require different disposal considerations.

### 13.2 Classification

This product is not a RCRA characteristically hazardous or listed hazardous waste.

## 14. TRANSPORT INFORMATION

**14.1 PROPER SHIPPING NAME: FIRE EXTINGUISHERS**

**14.2 Hazard Class or Division: Fire Extinguisher**

**14.3 Class: 2.2**

**14.4 UN No. :1044**

**14.5 packing group: --**

**14.6 Marine pollution: no**

## 15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

No Annex XVII restrictions.

**15.2 Chemical Safety Assessment**

Exempted from REACH Registration.

## 16. OTHER INFORMATION

**Full text of H-Statements referred to under sections 2 and 3.**

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**Issue Date:** 2022-11-11

This information and these recommendations are offered in good faith and believed to be correct as of the date hereof. Information and recommendations are supplied upon the condition that the recipients will make their own decision as to safety and suitability for their purposes. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose, or of any other nature, are made with respect to the product or the information and recommendations. We make no representation as to completeness or accuracy. In no event we shall be responsible for damages of any nature whatsoever resulting from the use or reliance upon the information and recommendations.

\* \* \* END OF MSDS \* \* \*