



# Material Safety Data Sheet

CARBON DIOXIDE FIRE EXTINGUISHER

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** CARBON DIOXIDE FIRE EXTINGUISHER  
**Product Use:** Fire extinguisher

### Supplier Information

**Company Name:** Jiangshan Diyi Fire Equipment CO., Ltd.  
**Address:** No.16 Riyue road,riyue village, xintangbian town,jiangshan city, China  
**Tel:** 0570-4772262  
**Fax:** 0570-4772261  
**Emergency Telephone:** 13605827692

## 2 HAZARDS IDENTIFICATION

### Hazard Classification:

Class 2 Sub Class 2 .

### Hazards Identification:

Liquefied gas. Contact with product may cause cold burns or frost bite.

### Note:

- 1: Fire extinguishers contain compressed air to ensure a high velocity discharge of product.
- 2: This MSDS is prepared mainly according to the carbon dioxide inside the extinguisher.
- 3: This MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of the product.

## 3 COMPOSITION/INFORMATION ON INGREDIENTS

### Substance Name:

Carbon Dioxide

### CAS No.:

124-38-9 Extinguisher

### Content Mass (kg):

2.0-10.0

Contains no other components or impurities which will influence the classification of the product.

## 4. FIRST AID MEASURES

### Inhalation:

Call doctor if victim unconscious, move to uncontaminated area and give assisted respiration. Low concentrations of CO<sub>2</sub> cause increased respiration and headache. Remove victim to uncontaminated area to breathe fresh air. Keep warm and quiet. Continued treatment should be symptomatic and supportive.

### Eye Contact:



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Immediately flush eyes with plenty of water for 15 minutes whilst holding lids open. If redness, itching or burning occurs get medical attention.

#### **Skin Contact:**

Wash material off skin with copious amounts of water and soap for at least 15 minutes. If redness, itching or burning occurs get medical attention.

### 5. FIRE FIGHTING MEASURES

#### **Suitable Extinguishing Media:**

This is an extinguishing agent

#### **Hazards from Combustion Products:**

None

#### **PPE for Fire Fighters:**

Rescuers should not enter oxygen depleted room without the use of self-contained full face breathing equipment.

#### **Hazchem Code:**

2TE

### 6. ACCIDENTAL RELEASE MEASURES

#### **Emergency Procedures:**

Evacuate area and ventilate. Do not enter area where high concentrations may exist without appropriate protective equipment.

#### **Methods and Materials for Containment and Clean Up:**

Not applicable - agent is a gas

### 7. HANDLING AND STORAGE

#### **General:**

Protect the cylinder from damage. Handle in well-ventilated areas.

#### **Safe Storage:**

Store in cool, dry, well ventilated areas out of direct sunlight and away from heat and ignition sources. Do not expose any cylinder part to temperatures above 55°C, store upright on a level floor, secure in position and protect from damage. Full cylinders stored separately from empties.

### 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

#### **Personal Protection:**

Ensure adequate ventilation. Protect eyes, face and skin.

#### **National Exposure Controls:**

Carbon Dioxide ES-TWA 5,000 ppm Carbon Dioxide ES-STEL 30,000 ppm

### 9. PHYSICAL AND CHEMICAL PROPERTIES



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**Colour:**

Colourless

**Odour:**

Odourless

**Relative Density, gas (air=1):**

1.52

**Relative Density, Liquid (air=1):**

1.03 S

**solubility in Water [mg/l]:**

2000

**Melting Point:**

-56.6°C

**Boiling Point:**

-78.5°C

**Flammability range:**

Non flammable

**Critical Temperature:**

30°C

**Vapour Pressure [20°C]:**

57.3 bar

**Other Data:**

Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level.

### 10. STABILITY AND REACTIVITY

**Chemical Stability:**

Stable under normal conditions of handling and use.

**Incompatible Materials:**



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Not applicable

### Hazardous Reactions:

None

### Conditions to Avoid:

None

### Hazardous Decomposition Products:

None

## 11. TOXICOLOGICAL INFORMATION

### Eye Contact:

The liquid form of this material can produce chilling sensations and discomfort and also frostbite.

### Skin Contact:

Evaporation of liquid from skin can produce chilling sensations. Frostbite can occur. Avoid carbon dioxide snow.

### Inhalation:

Carbon dioxide is an asphyxiate. Effects of oxygen deficiency (below 6 %) are as follows: convulsive movements, possible respiratory collapse and death.

### Ingestion:

Not a likely route of entry.

### Acute Overexposure:

Contact can produce chilling sensations, light headedness, giddiness, shortness of breath, muscular tremors and weakness, and acrocyanosis. Also unconsciousness or even death.

### Chronic Overexposure:

Prolonged exposure to an oxygen deficient atmosphere (below 18 % oxygen) may affect the heart and nervous system.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Not determined.

### Mobility

Not determined.

### Persistence and degradability

Not relevant.

### Bioaccumulative potential

Not determined

### Other adverse effects



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**Ozone depletion potential:** None

**Photochemical ozone creation potential:** None

**Global warming potential:** None

### 13. DISPOSAL CONSIDERATIONS

No harm to the environment is expected from this preparation.

Disposal should be in accordance with local, state or national legislation.

### 14. TRANSPORT INFORMATION

**Hazard Class or Division:** Fire Extinguisher

**Class:** 2.2

**UN No.** 1044

### 15. REGULATORY INFORMATION

**The regulatory status of a material (including its ingredients) under relevant Australian health, safety and environmental legislation:** Carbon dioxide is an approved gas which is listed in Australian Standard AS 4214.

### 16. OTHER INFORMATION

**Risk phrases in section 2:**

R22 Harmful if swallowed

R36/37/38 Irritating to eyes, respiratory system and skin

**Issue Date:** Nov. 26, 2016

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 merchant ability, 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 \* \* \*