

## Carbon Dioxide CO2 Fire Extinguisher

V1 05/08/21  
Page 1 of 5

### SECTION 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Trade name:	Carbon Dioxide Fire Extinguisher (Capacity 2 & 5kg)
Other names:	CO2 Fire Extinguisher
Recommended Use:	Fire extinguisher for use on electrical and flammable liquids.
Supplier:	Firechief Global
Address:	Sentura House, 3 Lands End Way Oakham, Rutland LE15 6RB
Email:	sales@firechiefglobal.com
Emergency No.:	0330 999 0019 Office Hours: Monday to Friday   08:00 - 17:00

### SECTION 2. Hazards identification

- Hazard Classification: Class 2 Sub Class 2
- Hazards Identification: Liquefied gas. Contact with product may cause cold burns or frost bite.

#### Hazard Class and Category Code - Regulation EC 1272/2008 (CLP)


- Physical hazards: Gases under pressure - Compressed gas - Warning (H280)

#### Classification EC 67/548 or EC 1999/45/CE

Not included in Annex VI.  
Not classified as dangerous preparation/substance.  
No EC labelling required.

#### Label element

#### Labelling Regulation EC 1272/2008 (CLP)

- Propellant hazard pictograms 
- Hazard pictograms code: GHS04
- Signal word: Warning
- Hazard statements: H280 - Contains gas under pressure; may explode if heated.
- Precautionary statements
  - Storage: P403 - Store in a well-ventilated place.
  - Labelling EC 67/548 or EC 1999/45
  - Symbol(s): None.
  - R Phrase(s): None.
  - S Phrase(s): None.

#### Other hazards

:Asphyxiant in high concentrations.

For more information contact: Firechief Global, 3 Lands End Way, Oakham, Rutland, UK, LE15 6RB | Imported into EU by: Sentura Group (Ireland) Ltd, Joyce House, 21-23 Holles Street, Dublin 2, Ireland

## Carbon Dioxide CO2 Fire Extinguisher

V1 05/08/21  
Page 2 of 5

### SECTION 3. Composition/information on ingredients

Substance Name:	Carbon Dioxide
CAS No.:	124-38-9
Extinguisher Content Mass (kg):	2.0-5.0
Contains no other components or impurities which will influence the classification of the product.	

### SECTION 4. First Aid measures

Inhalation:	Call doctor if victim unconscious, move to uncontaminated area and give assisted respiration. Low concentrations of CO2 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:	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.
Ingestion:	Not applicable
Acute Overexposure:	Carbon Dioxide is non-toxic at normal temperature and pressure. By diluting the oxygen concentration in air below the level necessary to support life, it can act as an asphyxiant. Effects of oxygen deficiency are: 12-16%: breathing and pulse rate increased, muscular coordination slightly disturbed; 10- 14%: emotional upset, normal fatigue, disturbed respiration; 6- 10% nausea and vomiting, collapse or loss of consciousness; below 6%: convulsive movements, possible respiratory collapse and death.
Chronic Overexposure:	Long term exposure to carbon dioxide has no known health effects. Prolonged exposure to an oxygen deficient atmosphere (below 18% oxygen in air) may affect the heart and nervous system.

### SECTION 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

For more information contact: Firechief Global, 3 Lands End Way, Oakham, Rutland, UK, LE15 6RB | Imported into EU by: Sentura Group (Ireland) Ltd, Joyce House, 21-23 Holles Street, Dublin 2, Ireland

## Carbon Dioxide CO2 Fire Extinguisher

V1 05/08/21  
Page 3 of 5

### SECTION 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

### SECTION 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.

### SECTION 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

### SECTION 9. Physical and chemical properties

Color:	Colorless
Odor:	Odorless
Relative Density, gas (air=1):	1.52
Relative Density, Liquid (air=1):	1.03
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/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level.

### SECTION 10. Stability and reactivity

Chemical Stability:	Stable under normal conditions of handling and use.
Incompatible Materials:	Not applicable
Hazardous Reactions:	None
Conditions to Avoid:	None
Hazardous Decomposition Products:	None

## Carbon Dioxide CO2 Fire Extinguisher

V1 05/08/21  
Page 4 of 5

### SECTION 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.

### SECTION 12. Ecological information

Eco toxicity:	Not available
Mobility:	Not available
Bio Accumulative Potential:	Not available
Persistence and Degradability:	Not available
Environmental Fate (Exposure):	Not available

### SECTION 13. Disposal considerations

General:	Dispose of in compliance with local authority regulations. It can be discharged to atmosphere in a well ventilated place, Where accumulation could be dangerous do not discharge. The gas cylinders are refillable. If the cylinder should be placed out of service, ask the manufacturer / supplier about recovery / recycling information.
Special Precautions for Landfill or Incineration:	Do not incinerate

### SECTION 14. Transport Information

UN No.:	1044
Class and Subsidiary Risk:	D.G. Class 2.2
Special Precautions for User:	None
UN Proper Shipping Name:	FIRE EXTINGUISHER
Packing Group:	Packing Group III
Hazchem Code:	2TE

For more information contact: Firechief Global, 3 Lands End Way, Oakham, Rutland, UK, LE15 6RB | Imported into EU by: Sentura Group (Ireland) Ltd, Joyce House, 21-23 Holles Street, Dublin 2, Ireland

**+44 (0) 330 999 0019****sales@firechiefglobal.com****firechiefglobal.com**

## Carbon Dioxide CO2 Fire Extinguisher

V1 05/08/21  
Page 5 of 5

### SECTION 15. Regulatory information

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

##### EU Regulations

Restrictions on Use: No one.  
Seveso regulations 96/82/CE: Not included.

##### National regulation

Ensure all national/local regulations are observed..

Chemical Safety Assessment

This product is not necessary to carry out a chemical safety assessment (CSA).

### SECTION 16. Other information

Training advice:

**After use indoors, ventilate thoroughly.**  
Do not breathe the gas.  
Keep container in a well-ventilated place.

List of full text of the indications section 3:

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

**End of document**