



MATERIAL SAFETY DATA SHEET

CO2 FIRE EXTINGUISHER

1. IDENTIFICATION OF MATERIAL AND SUPPLIER	
Product Name:	Carbon Dioxide Fire Extinguisher (Capacity 2, 3, 4.5, 6.5, 9 & 22.5 kg)
Other Names:	CO2 Fire Extinguisher
Recommended Use:	Fire extinguisher for use on electrical and flammable liquids.
Supplier Name:	Kanadia Fyr Fyter Pvt. Ltd.
Address:	Plot No. 7/8, Paras Industrial Estate, Nr. Garibsha Pir Town: Sihor City: Bhavnagar PIN-364240
Emergency No.:	02846 231763

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

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.	

4. FIRST AID MEASURES	
Inhalation:	Call doctor if victim unconscious, move to uncontaminated area and give assisted respiration. Low concentrations of CO ₂ 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.
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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 & 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.

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

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

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

13. DISPOSAL CONSIDERATIONS

General:	Dispose of in compliance with local, state regulations that may be in force.
Special Precautions for Landfill or Incineration:	None

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

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.
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16. OTHER INFORMATION

General:	This data is based on our present knowledge. However, it shall not constitute a guarantee for any specific product featured and shall not establish a legally valid contractual relationship.
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