

CO2 Extinguisher

SECTION 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER			
Product Name:	Carbon Dioxide Fire Extinguisher	Other Names:	CO2 Fire Extinguisher
Recommended Use:	Fire extinguishing agent for use on electrical and flammable liquids.		
Supplier Name:	JSG Industrial System Pty Ltd	Address:	Unit 1, 21 Amour St Revesby 2212 Australia
Telephone No.:	+61 2 9914 8720	Fax No.:	+61 2 9914 8798
Email:	jsgindustrial@jsg.com.au	Website:	www.jsgindustrial.com
Information Department:	Product Safety Department	Date Reviewed:	November 2014

SECTION 2: HAZARDS IDENTIFICATION			
Hazard Classification:	Not classified as hazardous according to NOHSC criteria. Classified as dangerous good by the criteria of the ADG code.	Hazards Identification:	Liquefied gas. Contact with product may cause cold burns or frost bite.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS			
Substance Name	CAS Number	Extinguisher Content Mass (kg)	
Carbon Dioxide	124-38-9	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

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			
Colour:	Colourless	Odour:	Odourless
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/vapour 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

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.	Acute Overexposure:	Contact can produce chilling sensations, light headedness, giddiness, shortness of breath, muscular tremors and weakness, and acrocyanosis. Also unconsciousness or even death.
Ingestion:	Not a likely route of entry.	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
Persistence and Degradability:	Not available	Bio Accumulative Potential:	Not available
Environmental Fate (Exposure):	Not available		

SECTION 13: DISPOSAL CONSIDERATIONS

General:	Dispose of in compliance with local, state or Commonwealth regulations that may be in force.	Special Precautions for Landfill or Incineration:	None
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SECTION 14: TRANSPORT INFORMATION

UN Number:	1044	Class and Subsidiary Risk:	D.G. Class 2.2
Special Precautions for User:	None	UN Proper Shipping Name:	Carbon Dioxide
Packing Group:	Packing Group III	Hazchem Code:	2TE

SECTION 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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SECTION 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.	Contact:	Customer Support +61 2 9914 8720
Department Issuing Data Specification Sheet:	Product Safety Department		