MyGas Pty Ltd - Phone 1300 792 603

Carbon Dioxide - Material Safety Data Sheet

Supplier Name: Address: Telephone: Emergency: Emergency: Website: My Gas Pty Ltd 2B Deeds Rd Camden Park SA, 50338 1300 792 603 24hr EMERGENCY TELEPHONE No. 1300 792 603 DIAL 000 www.rentfreegas.com.au

HAZARDS IDENTIFICATION

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO NOHSC CRITERIA CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE COMPOSITION / INFORMATION ON INGREDIENTS

Product Name: Chemical Name: Manufacturer's Code: UN Number: DG Class: Packaging Group: Subsidiary Risk(s): Hazchem Code: EPG No: Poisons Schedule: Uses:

Carbon Dioxide, compressed 1013 Carbon Dioxide, Liquid

Carbon Dioxide, Refrigerated Liquid.

2.2 Non-flammable gas, non-toxic gas Not applicable None 2RE 2C2 None assigned As a source of low temperatures for freezing.

PHYSICAL DESCRIPTION & PROPERTIES:

Appearance: Boiling Point: Melting Point: Vapour Pressure: Evaporation Rate: Odour: Vapour Density: Weight per ml: Flash Point: Flammability Limits: Auto-Ignition Temperature:

Colourless, Odourless liquid and gas. Not applicable Not applicable 6,300kPa @ 25 C Immediate Odourless 1.53 (Air=1) 1.02g None None None

OTHER PROPERTIES:

Extremely cold, colourless liquid. Forms a "dry ice": frost on evaporation at normal pressures, which sublimes to gaseous carbon dioxide. May react violently with dusts of some metals.
INGREDIENTS:

Carbon Dioxide	124-389-9 100%				
HEALTH HAZARD INFORMATION					
HEALTH EFFECTS					
Acute:	Swallowed: Extremely cold liquid or solid. Will cause cold burns to lips, mouth and throat.				
Skin:	May cause cold burns or frostbite.				
Eyes:	Will cause cold burns to the eyes, with risk of serious, permanent injury or blindness.				
Inhaled:	Low concentrations of carbon dioxide in air may cause headache and increased respiration at 3-5%.				
	Levels of 8-15% can cause headache, nausea, vomiting and loss of consciousness. Higher concentrations				
	are reported to produce				
	unconsciousness and death.				
	Carbon Dioxide is also a simple asphyxiant.				
	May replace oxygen in the atmosphere. Symptoms of approaching asphyxia include accelerated pulse				
	rate, increase in the rate and volume or respiration, decreased ability to think clearly, inattention and loss of				
	Bolow 6% overage broathing is likely to be in gaspe, with rick of convulg, and an inability to move.				
	Broathing a pure carbon Diovide atmosphere may result in immediate loss of consciousness and death				
	within a few minutes				
Chronic:	Carbon dioxide may be harmful on long exposure at levels below 1%, causing increased concentration of				
	bicarbonate ions in the body, and possible acidosis. This may lead to calcium deposition in the kidneys and				
	other tissues. Breathing atmospheres of very low oxygen (less than 10%) may result in permanent brain				
	damage.				
LD50:	No data found				
LCLo:	90,000ppm/5 minutes, human				
FIRST AID					
If poisoning occurs, contact a doctor or Poisons Information Centre Ph: 131 126					
Swallowed	If swallowed, do NOT induce vemiting. Give a glass of water				
Skin:	in swallowed, up not induce volnianing. Give a glass of water.				
OKII.	hat water Obtain medical attention				
Eyes:	If contact occurs with the eves, open eves wide and flood with water for at least 15 minutes, then see a				
	doctor.				
Inhaled:	Avoid becoming a casualty. In enclosed spaces, wear self contained breathing apparatus. Remove patient				
	from exposure. Apply artificial respiration if not breathing. Administration of oxygen by qualified staff may				
	be appropriate.				
FIRST AID FACILITIES					
Recommended:	Hand Wash Basin				
	Emergency Snower				

	Oxygen resuscitation equipment			
Advice to Doctor:	Product is Carbon Dioxide, refrigerated liquid. Risk of frostbite on skin contact. Simple asphyxiant. Contact			
	Poisons Information Centre.			
	PRECAUTIONS FOR USE			
EXPOSURE LIMITS (NOHSC)				
TLV-TWA:	5,000ppm 9,000mg/m3			
TLV-STEL:	30,000ppm 54,000mg/m3			
Engineering Controls:	Installation should only be performed by experienced and trained personnel. All exposed surfaces should			
	be adequately insulated for low temperatures and protected against skin contact. Ensure adequate			
	ventilation (same as outdoors) when using. Keep pressure relief valve free from icing and blockage.			
	Consider local mechanical exhaust/extraction or forced ventilation to keep airborne contamination below			
	TLV. Do not use materials that may become embrittled by low temperatures as materials of construction.			
	PRECAUTIONS FOR USE cont.			
Personal Protection:	Do not breathe concentrated vapour levels. Prevent contact with the skin and eyes. Personal protection to			
	be selected from those recommended below, as appropriate to mode of use, quantity handled and degree			
	of hazard: Self-Contained breathing apparatus			
	Positive pressure or Air-fed hood			
	Face shield			
	Insulated gloves or gauntlets			
	Insulating overalls			
	Safety Shoes			
Flammability:	Not flammable			
SAFETY HANDLING INFORMATION				
STORAGE AND TRANSPORT				

Storage Temperature:RefrigeratedUN Class:2.2 Non-flammable, non toxic gasPackaging Group:Not applicableUN Number:2187 Carbon Dioxide, refrigerated liquidEPG Number:2C2

Correct Shipping Name: Carbon Dioxide, refrigerated liquid

Observe requirements of The Australian Code for the Transport of Dangerous Goods by Road and Rail. Observe the requirements of State Dangerous Goods (Storage and Handling) Regulations.

STORAGE ADVICE

Store in a cool, well-ventilated place. Store cylinders upright in an enclosure, preferably outside of buildings, protected from direct sunlight. Secure cylinders by chains or similar device to prevent falling over. Store cylinders below 45 °C. Prevent vapours from collecting in enclosed or low lying spaces. Keep away from flammable or combustible materials. Keep away from vehicular traffic and other thoroughfares. Protect from physical damage. Protect regulators and other fittings from impact.

SPILLS AND DISPOSAL

CAUTION: Before dealing with spillage take the necessary protective measures, inform others to keep at a safe distance. Contact supplier for specific assistance. Allow gas from re-entering ventilation intakes or similar. Leaking gases may form a fog, affecting visibility. Gas is heavier than air. Consider the vented gases as an asphyxiating atmosphere; take precautions to remove personnel from downwind and downhill. Prevent venting gases from collecting in channels, drains or low lying areas.

FIRE/EXPLOSION HAZARD

Not a fire hazard. May form explosive mixtures with some metal dusts, including aluminium, chromium, magnesium and magnesium/titanium alloys. Leaking fixtures may form a dry ice plug where pressure is released. This pressure can vent suddenly if the solid carbon dioxide is heated. DECOMPOSITION PRODUCTS

Carbon Dioxide.

Insulation materials may release noxious gases if decomposed in fire.

In case of small fire/explosion use: Flooding quantities of water

In case of major emergency:		
Hazchem Code:	2RE	
Extinguishant:		Water fog or fine water spray
Danger of violent reaction or explosion?	No	
Protective Clothing:		Full protective clothing including breathing apparatus and protective gloves
Appropriate Measures:		Dilute
Evacuate?		Yes