



April 2009

MATERIAL SAFETY DATA SHEET

Product Name: Carbon Dioxide (Compressed Liquefied)
Chemical Formula: CO₂
UN Code: 1013
Hazchem Code: 2TE
Dangerous Goods Class: 2.2 (Non Flammable Gas, Non Toxic Gas)

PHYSICAL PROPERTIES

Extremely cold, colourless liquid. Forms dry ice/ frost on evaporation at normal pressures. Gas/Vapour heavier than air. May accumulate in confined spaces particularly at or below ground level.

Appearance: Colourless, Odourless Liquid & Gas.
Boiling Point: -78.5 degrees
Melting Point: N/A.
Evaporation Rate: Immediate.
Odour: None.
Vapour density: 1.53 (Air = 1)
Flash Point: None
Flammability: Non-Flammable.

HEALTH HAZARD INFORMATION

Acute: Escaping liquid from the cylinder can form a dry ice powder. Uncontrolled release of compressed may cause physical injuries in addition to the following health effects.

Swallowed: Solid Carbon Dioxide will cause severe burns to mouth and throat.

Skin: May result in cold burns and frostbite.

Eyes: Eye contact may result in frostbite or cold burns. In serious cases there is a risk of permanent injury to the eyes.

Inhaled: At low concentrations of 3% - 5% by volume in air can result in increased respiration and headache. Concentrations of 8% - 15% can cause headache, nausea and vomiting which may lead to unconsciousness. Higher concentrations can cause rapid circulatory inefficiency leading to coma and death.

FIRST AID MEASURES

In event of poisoning contact a doctor or the poisons information centre: ph 131 126.

- Swallowed:* Do not induce vomiting. Give a glass of water.
- Skin:* None required for gas. For frostbite, immerse skin in luke warm water. DO NOT USE HOT WATER. Seek medical attention.
- Eyes:* None required for gas, If frostbite is suspected, flush eyes with cool water for 15 minutes and obtain immediate medical attention.
- Ingestion:* Not anticipated.
- Inhaled:* Move to an uncontaminated area, If patient is unconscious apply mouth to mouth resuscitation or another supplementary oxygen device. Seek urgent medical attention. Dial 000

SAFETY HANDLING INFORMATION

Always secure cylinder in an upright position, avoid toppling and damage to the valve. Never carry a compressed gas cylinder in an enclosed space such as a car boot or enclosed passenger vehicle. A leak can result in a fire, explosion, asphyxiation or a toxic exposure.

Store in a cool, well ventilated area, protect from direct sunlight. Store cylinders below 45 degrees C.

Open cylinder valves slowly to avoid pressure shock and close when not in use. This product is an asphyxiant and is not classed as hazardous according to the hazardous substances classification criteria of Worksafe Australia.

Important Notice.

Details contained in this document are believed to be correct at the time of printing. Whilst proper care has been taken in the preparation, no liability for injury or damage resulting from its use can be accepted.

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