



HAZCHEM INFORMATION

CARBON DIOXIDE

HEALTH & SAFETY INFORMATION PRODUCT SAFETY DATA SHEET REF : HZ / 411/95

(Sheet 1 of 2)

1. IDENTIFICATION OF SUBSTANCE

Product name : Carbon Dioxide

Application : Fire fighting medium

2. COMPOSITION INFORMATION ON INGREDIENTS

Composition Chemical formula CO₂

3. POSSIBLE DANGER

Skin Co₂ is a cryogenic hazard. Discharge of compressed Co₂ to air causes cooling. Skin may "stick" to objects frozen by this cooling effect.

Ingestion Moderately toxic with fatal results.

Inhalation Asphyxiant gas.

4. FIRST AID MEASURES

Skin On sticking apply warm water to affected area using moderate heat resource / body heat. seek medical advice.

Eyes Apply warm clear water and seek urgent medical attention.

Inhalation Remove from exposed area , keep warm and at rest. If there is distress give oxygen and seek medical advice urgently.

5. FIRE FIGHTING MEASURES

Fire Co₂ gas is a fire extinguishing agent.

Cylinders affected by fire should be withdrawn from service.

6. ACCIDENTAL RELEASE MEASURES

Spillage / leaking Remove personnel from basement offices / rooms, as the gas will fall. Ventilate thoroughly for several hours. If safe to do so close cylinder valves to prevent further leakage.

7. HANDLING & STORAGE

Storage Store in original compressed gas cylinder, away from heat

Handling Low temperature gloves and chemical goggles should be worn. Adequate low level ventilation should be provided.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General Observe good working practices in handling compressed gas cylinders. wear appropriate personal protective equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

EH40 limits EH40 (LTEL) - 5000 ppm

EH40 (STEL) - 15000 ppm

10. STABILITY & REACTIVITY

Boiling point - 78.5 deg C (sublimes)

Solubility in water 0.145g per 100cm³ at 25 deg C

11. TOXICOLOGICAL INFORMATION

Toxicity : Toxic in high concentrations.

12. TRANSPORT INFORMATION

Transport Cylinders should be transported in suitable cylinders racks to avoid damage to valve assemblies. Regulatory requirement for the transportation of compressed gas cylinders should be observed.

15. REGULATIONS

None.

16. OTHER INFORMATION

General Absorptive cartridge type respirators must not be used in a carbon dioxide rich environment.

The product is manufactured to be used in fire fighting extinguishers and is not sold for any other application . If used in training , care should be taken to avoid excessive discharge into the environment. The information provide is based on current knowledge and experience and should be used in accordance with the safety information described above.