

Carbon Dioxide

Safety Data Sheet

1. COMPANY: Brewgas
Address: Old Lyndhurst Road
Cadnam
Hampshire
SO40 2NL

2. IDENTIFICATION OF SUBSTANCE/PREPARATION

Identification of the substance/Preparation: Carbon Dioxide
Chemical Formula: CO₂
Substance Type: Liquid

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components: Carbon Dioxide only
EINECS / ELINCS: 204-696-9
CAS Number: 124-38-9
Concentration: 100%

4. HAZARD IDENTIFICATION

High Pressure liquified gas

5. FIRST AID MEASURES

Potential Health Effects

Inhalation: In high concentrations may cause asphyxiation, which may bring about unconsciousness without warning and so rapidly that victim may be unable to protect themselves. The vapour/gas is heavier than air and will spread along the ground. Extremely cold material can cause burns similar to frostbite. Remove victim to uncontaminated area wearing self contained breathing apparatus. Call a doctor or ambulance. Apply artificial respiration if breathing stops.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, keep eyelids open. Get medical attention immediately.

Skin Contact: In case of cold burn, spray with cold water for 15 minutes, seek medical assistance.

Ingestion: Ingestion is not considered a potential route of exposure

6. FIRE FIGHTING MEASURES:

Extinguishing media: All known extinguishing media can be used.
Specific Hazard: Upon exposure to heat or flame, cylinder will vent rapidly and or rupture violently, non flammable and does not support combustion. Move away from container and cool with water from a protected position. Keep containers and surroundings cooling with water spray.

7. ACCIDENTAL RELEASE MEASURES:

Personal Precautions: Evacuate personnel to safe areas. Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. Monitor oxygen level. Ventilate the area.

Small release: Providing it is safe to do so, try to stop the release by closing the valve, if leak is from the cylinder valve then contact Brewgas, if the leak is in the cellar system, close the cylinder valve, safely vent the pressure and call the system supplier.

Major release: Evacuate the area immediately.

Cylinders are fitted with a safety bursting disc, should this be activated a sudden rush of white vapour will discharge from the valve creating a loud noise, The cylinder will frost due to the sudden release of liquid to vapour. Evacuate the area immediately until safe to return, contact Brewgas for the uplift of the cylinder.

Environmental precautions: Prevent from entering low lying areas where its accumulation can be dangerous, e.g cellars.

Clean up methods: Ventilate the area.



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7. HANDLING AND STORAGE

Protect cylinders from physical damage; do not drag, roll, slide or drop. Before using the product, determine its identity by reading the label, use only specified equipment which is suitable for this product, Contact the gas supplier if in doubt. Do not store cylinders adjacent to direct heat sources or within sealed rooms where ambient heat may build up. Keep cylinders below 50°C (122°F) failure to do so may cause the bursting disc to rupture (see section 6). Store in a well ventilated place, if this is not possible then conduct a confined spaces risk assessment to determine if a CO2 analyser is required. Open and close cylinder valves slowly, only open when connected to correct equipment. Close cylinder after use.

8. EXPOSURE CONTROLS/PRECAUTIONS

Exposure Limits: (GB) Carbon Dioxide Occupational Exposure Standards (OES)
Short term exposure Limit (STEL) 15000vpm
Long term exposure limit (LTEL) 5000vpm
Ensure adequate ventilation to keep below exposure limits.

Personal protection: Suitable safety shoes for handling cylinders.
Safety glasses when handling cylinders.
Sturdy work gloves for handling cylinders.

9. STABILITY AND REACTIVITY

Stability and Reactivity: Stable under normal conditions

10. DISPOSAL CONSIDERATIONS

Waste from residues: Return unused product in original cylinder to Brewgas.
Contaminated Packaging: Return cylinder to Brewgas.

11. TRANSPORT INFORMATION

Un Number: UN1013
Class: 2.2
ADR Hazard ID No: 20

Other transport Information:

Avoid transportation where the load is not separate from the driver. Driver is aware of all potential hazards and knows what to do in the event of an accident or emergency.

12. OTHER INFORMATION:

Ensure all national / local regulations are observed. Keep cylinders in well ventilated place. Do not breathe the gas. The hazard of asphyxiation is often overlooked and must be stressed during operator training. Contact with liquid may cause burns / frost bite Users of breathing apparatus must be trained. Details in the document are believed to be correct at time of review. Whilst proper care has been taken in the preparation of this document, no liability for injury or damage resulting from its use can be accepted.