



Carbon Dioxide (Compressed & Liquefied Gas)

Safety Data Sheet GCI-006

Date of Issue: 01/01/2021 Revision date: 10/03/2021

Section 1: Product and company Information

1.1 Product Identifier

Trade Name : Carbon Dioxide
Formula : CO₂
MSDS No : GCI-006

1.2 Details of the supplier of the safety data sheet

Name : Globcorp International Co W.L.L
Address : Shop No 52, Building 2527, Road 1535, Block
115, Hidd, Kingdom of Bahrain
Emergency number : +973-34026802/33701856/36487106

1.3 Product Composition / Information of ingredients

Substance name : Carbon Dioxide.
Contents : 100%
Doesn't contain any other components or impurities that will influence the classification.

Section 2: Hazard Identification

Hazards identification : Liquefied gas.
In high concentrations may cause asphyxiation.

Section 3: First Aid Measures

After Inhalation Remove victim to uncontaminated area wearing self-contained breathing apparatus. Keep victim warm and rested. If not breathing, provide artificial breathing, with supplemental oxygen. Call a physician.

After Skin contact In case of frostbite spray with water for at least 15 minutes. Apply a sterile dressing. Obtain medical assistance.

After Eye contact Immediately flush eyes thoroughly with water for at least 15 minutes.

After Ingestion Ingestion is not considered a potential route of exposure



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Section 4: Firefighting Measures

Flammable class
Specific hazards

Extinguishing media
Specific methods

Special protective equipment

Non-flammable.

Exposure to fire may cause the containers to rupture or explode.

Use media appropriate for surrounding fire.

Stop the flow of product if the option is available.

Use self-contained breathing apparatus in confined spaces.

Section 5: Handling and Storage

Storage

Store in a cool, well ventilated place where the temperature will not exceed 50°C. This gas is heavier than air and in an enclosed space tends to accumulate near the floor, displacing air and pushing it upward. This creates an oxygen-deficient atmosphere near the floor. Ventilate space before entry. Verify sufficient oxygen concentration.

Handling

Prevent suck back into the cylinder.

Only use proper equipment which is suitable for this product.

Refer to supplier's container handling instructions. Contact your gas supplier if in doubt.

Section 6: Exposure controls / Personal protection

Personal protection
Exposure Controls

Ensure adequate ventilation.

Carbon dioxide : TLV-TWA: 5000 ppm

Carbon dioxide : TLV-STEL: 30000 ppm

Carbon dioxide : OEL (UK)-LTEL: 5000 ppm

Carbon dioxide : OEL (UK)-STEL: 15000 ppm

Carbon dioxide : MAK-Germany: 5000 ppm



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Section 7: Physical and Chemical properties

Physical state at 20°C	: Liquefied gas.
Color	: Colorless.
Odor	: Odorless.
Molecular formula	: CO ₂
Molecular weight	: 44
Melting point [°C]	: -56.6
Boiling point [°C]	: -78.5
Critical temperature [°C]	: 30
Vapor pressure, 20°C	: 57.3 bar
Relative density, gas (air=1)	: 1.52
Relative density, liquid (water=1)	: 1.03
Solubility in water [mg/l]	: 2000

Section 8: Stability and Reactivity

Stability and reactivity : Stable under normal conditions

Section 9: Toxicological Information

Toxicity Information : Unlike simple asphyxiants, carbon dioxide has the ability to cause death even when normal oxygen levels (20-21%) are maintained. 5% CO₂ has been found to act synergistically to increase the toxicity of certain other gases (CO, NO₂).

Section 10: Disposal Considerations

General : Do not discharge anywhere its accumulation could be dangerous. Discharging into the atmosphere at large quantities should be avoided



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Section 11: Transport information

Transport document description	: 1013
UN-NO (IMDG)	: 1013
Proper shipping name	: Carbon Dioxide
Hazard labels	: 2.2 – Non-flammable gas, nontoxic gas.



Other transport information	Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or emergency.
Before Transporting product containers	Ensure that containers are firmly secured. Ensure cylinder valve is closed and not leaking. Ensure valve outlet cap nut or plug is correctly fitted. Ensure valve protection device is correctly fitted. Ensure there is adequate ventilation. Compliance with applicable regulation.

Section 12: Other Information

In high concentrations may cause asphyxiation.

Keep container in a well ventilated place.

Do not breathe the gas.

Ensure all national/local regulations are observed.

Although proper attention and care was taken at the preparation of this document, we don't accept any liability for injury or damage from its use. Please always conduct your own research as well.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.