



# Oxygen (Compressed)

## Safety Data Sheet GCI-004

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

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### Section 1: Product and company Information

#### 1.1 Product Identifier

Trade Name : Oxygen  
Formula : O<sub>2</sub>  
MSDS No : GCI-004

#### 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 : Oxygen, compressed.  
Contents : 100%  
Contains no other components or impurities which will influence the classification of the product

### Section 2: Hazard Identification

Hazards identification : Compressed gas.  
Colorless, odorless, non-flammable gas.  
Oxidizer.  
Contents under pressure. Use and store below 51.67 °C.

### Section 3: First Aid Measures

After Inhalation : Continuous inhalation of concentrations higher than 75% may cause nausea, dizziness, respiratory difficulty and convulsion.  
Remove victim to uncontaminated area.

After Skin contact : Adverse effects not expected from this product.

After Eye contact : Adverse effects not expected from this product.  
In case of eye irritation: rinse immediately with plenty of water. Consult an ophthalmologist if irritation persists.



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After Ingestion

Ingestion is not considered a potential route of exposure

### Section 4: Firefighting Measures

Flammable class  
Specific hazards

Non-flammable.  
Oxidizing agent; vigorously accelerates combustion. Contact with flammable materials may cause fire or explosion.

Suitable extinguishing media  
Specific methods

All known extinguishers can be used.  
Evacuate all personnel from the danger area. Use self-contained breathing apparatus (SCBA) and protective clothing. Immediately cool containers with water from maximum distance. Stop flow of gas if safe to do so, while continuing cooling water spray. Remove ignition sources if safe to do so. Remove containers from area of fire if safe to do so.

Special protective equipment

In confined space use self-contained breathing apparatus.

### Section 5: Handling and Storage

Storage

Segregate from flammable gases and other flammable materials in store. Keep container below 50°C in a well ventilated place.

Handling

Ensure equipment is adequately earthed.  
Use no oil or grease.  
Open valve slowly to avoid pressure shock.  
Suck back of water into the container must be prevented.  
Do not allow back feed into the container.  
Use only proper specified equipment which is suitable for this product.  
Keep away from ignition sources.  
Refer to supplier's container handling instructions. Contact your gas supplier if in doubt.



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### Section 6: Exposure controls / Personal protection

Personal protection

Do not smoke while handling product.  
Wear suitable hand, body and head protection.  
Wear goggles with suitable filter lenses when use is cutting/welding.  
Avoid oxygen rich (>21%) atmospheres.  
Ensure adequate ventilation.

### Section 7: Physical and Chemical properties

Physical state at 20°C	: Compressed gas.
Color	: Colorless.
Odor	: No odor warning properties.
Molecular formula	: O <sub>2</sub>
Molecular weight	: 32
Melting point [°C]	: -219
Boiling point [°C]	: -183
Critical temperature [°C]	: -118
Vapor pressure, 20°C	: Not applicable.
Relative density, gas (air=1)	: 1.1
Relative density, liquid (water=1)	: 1.2
Solubility in water [mg/l]	: 39
Additional Information	: Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level.

### Section 8: Stability and Reactivity

Stability and reactivity

May react violently with combustible materials and reducing agents  
Violently oxidises organic material.



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### Section 9: Toxicological Information

Toxicity Information

: No known toxicological effects from this product.

### Section 10: Disposal Considerations

General

: Do not discharge into any place where its accumulation could be dangerous.  
Discharge to atmosphere in a well ventilated Place.

### Section 11: Transport information

Transport document description

: UN1072 Oxygen, compressed, 2.2

UN-NO (DOT)

: UN1072

Proper shipping name

: Oxygen, compressed

Hazard labels (DOT)

: 2.2 – Non-flammable gas

5.1 – Oxidizer



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.



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### Section 12: Other Information

Ensure operators understand the oxygen enrichment.

Keep container in a well ventilated place.

Do not breathe the gas.

Ensure all national/local regulations are observed.

The hazard of asphyxiation is often overlooked and must be stressed during operator training.

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.