



Nitrogen (Compressed)

Safety Data Sheet GCI-005

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

Section 1: Product and company Information

1.1 Product Identifier

Trade Name : Nitrogen
Formula : N₂
MSDS No : GCI-005

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 : +973-34026802/33701856/36457106

1.3 Product Composition / Information of ingredients

Substance name : Nitrogen, 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.
In high concentrations may cause asphyxiation.

Section 3: First Aid Measures

After Inhalation Remove to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult, trained personnel should give oxygen. Call a physician.

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.
Under certain conditions, nitrogen can react violently with lithium, neodymium, titanium (above 800°C), and magnesium to form nitrides. At high temperature, it can also combine with oxygen and hydrogen.

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

Keep container below 50°C in a well ventilated place.

Handling

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 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 : N₂
Molecular weight : 28
Melting point [°C] : -210
Boiling point [°C] : -196
Critical temperature [°C] : -147
Vapor pressure, 20°C : 760mm of Hg @ -195 °C
Relative density, gas (air=1) : 0.97
Relative density, liquid (water=1) : Not applicable
Solubility in water [mg/l] : 20

Section 8: Stability and Reactivity

Stability and reactivity Stable under normal conditions

Section 9: Toxicological Information

Toxicity Information : No known toxicological effects from this product.

Section 10: Disposal Considerations

General : Do not discharge anywhere its accumulation could be dangerous. Discharge to atmosphere in a well ventilated place.



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Section 11: Transport information

Transport document description	: UN1066 Nitrogen, compressed, 2.2
UN-NO (DOT)	: UN1066
Proper shipping name	: Nitrogen, compressed
Hazard labels (DOT)	: 2.2 – Non-flammable 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

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.

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.