



Chlorodifluoromethane (R 22)

Safety Data Sheet GCI-013

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

Section 1: Product and company Information

1.1 Product Identifier

Trade Name	: Chlorodifluoromethane (R 22)
Formula	: CHClF ₂
MSDS No	: GCI-013

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	: Chlorodifluoromethane.
CAS No	: 75-45-6
Contents	: 100%

Doesn't contain any other impurities or components that would affect the classification of the product.

Section 2: Hazard Identification

Hazards identification	: Liquefied gas Contains gas under pressure, may explode if heated.
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Section 3: First Aid Measures

After Inhalation	R-22 is low in acute toxicity in animals. When oxygen levels in air are reduced to 12-14% by displacement, symptoms of asphyxiation, loss of coordination, increased pulse rate and deeper respiration will occur. At high levels, cardiac arrhythmia may occur. Remove victim to uncontaminated area.
After Skin contact	The liquid may cause frostbite. If exposed to liquid, immediately warm frostbite area with warm water for at least 15 minutes.
After Eye contact	Immediately flush eyes thoroughly with water for at least 15 minutes.



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After Ingestion

Ingestion is not considered a probable route of exposure

Section 4: Firefighting Measures

Flammable class

Specific hazards

Non-flammable.

Contact with flammable materials may cause fire or explosion. R-22 is not flammable at ambient temperatures and atmospheric pressure. However, this material will become combustible when mixed with air under pressure and exposed to strong ignition sources.

Suitable extinguishing media

Use appropriate extinguishing media for surrounding fire.

Specific methods

Stop flow of gas 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 52°C in a well ventilated place.

Handling

Prevent suck back and back feed into the container.

Use only proper specified 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

Ensure adequate ventilation. Do not smoke near the product.

Exposure Controls

Chlorodifluoromethane :TLV-TWA : 1000 ppm

Chlorodifluoromethane :OEL(UK)-LTEL : 1000ppm

Chlorodifluoromethane :VME-France : 1000 ppm

Chlorodifluoromethane :MAK-Germany:1000ppm



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Section 7: Physical and Chemical properties

Physical state at 20°C	: Liquefied gas.
Color	: Colorless.
Odor	: No odor warning properties.
Molecular formula	: CHClF ₂
Molecular weight	: 86.5
Melting point [°C]	: -157
Boiling point [°C]	: -40.9
Critical temperature [°C]	: 96.2
Vapor pressure, 20°C	: 9.1 bar
Relative density, gas (air=1)	: 3
Relative density, liquid (water=1)	: 1.2
Solubility in water [mg/l]	: 3628
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	Stable under normal conditions. Toxic products which can be corrosive in the presence of moisture can be produced due to thermal decomposition.
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Section 9: Toxicological Information

Toxicity Information	: No known toxicological effects from this product.
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Section 10: Disposal Considerations

General	: Do not discharge into any place where its accumulation could be dangerous or fatal.
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Section 11: Transport information

Transport document description	: UN1018 Chlorodifluoromethane, R22, 2.2
UN-NO (DOT)	: UN1018
Proper shipping name	: Chlorodifluoromethane, R22
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 that the vehicle driver is aware of the potential hazards of the load and knows what to do in case 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.