



Tetrafluoroethane (R134a)

Safety Data Sheet GCI-014

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

Section 1: Product and company Information

1.1 Product Identifier

Trade Name : Tetrafluoroethane (R134a)
Formula : CH₂FCF₃
MSDS No : GCI-014

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 : Tetrafluoroethane.
CAS No : 811-97-2
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. Product may cause frostbite.

Section 3: First Aid Measures

After Inhalation Remove victim to uncontaminated area wearing self-contained breathing apparatus. Keep victim warm and rested. Call a doctor. Apply artificial respiration if breathing stopped.

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.

After Ingestion Ingestion is not considered a probable route of exposure



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Section 4: Firefighting Measures

Flammable class
Specific hazards

Suitable extinguishing media

Specific methods
Special protective equipment

Non-flammable.
Contact with fire may cause containers to rupture or explode
Use appropriate extinguishing media for surrounding fire.
Stop flow of product if safe to do so.
In confined space use self-contained breathing apparatus.

Section 5: Handling and Storage

Storage

Handling

Keep container below 52°C in a well ventilated place.
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.

Section 7: Physical and Chemical properties

Physical state at 20°C

: Liquefied gas.

Color

: Colorless.

Odor

: No odor warning properties.

Molecular formula

: CH₂FCF₃

Molecular weight

: 102.03

Melting point [°C]

: 101

Boiling point [°C]

: -26.6



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Critical temperature [°C]	: 100.9
Vapor pressure, 20°C	: 5.7 bar
Relative density, gas (air=1)	: 5.28 Kg/m ³
Relative density, liquid (water=1)	: 4.25 Kg/m ³
Solubility in water [mg/l]	: 0.21
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.

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 or fatal.

Section 11: Transport information

Transport document description

: UN3159 1,1,1,2 – Tetrafluoroethane, 2.2

UN-NO (DOT)

: UN3159

Proper shipping name

: 1,1,1,2 – Tetrafluoroethane

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.



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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.



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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.