



Heptafluoropropane (R227/FM200)

Safety Data Sheet GCI-019

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

Section 1: Product and company Information

1.1 Product Identifier

Trade Name : Heptafluoropropane (R227/FM200)
Formula : C3HF7
MSDS No : GCI-019

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 : Heptafluoropropane
CAS No : 431-89-0
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

Hazardous thermal decomposition products

Suitable extinguishing media

Specific methods

Special protective equipment

Non-flammable.

Contact with fire may cause containers to rupture or explode

Decomposition products may include the following materials:

carbon dioxide

carbon monoxide

halogenated compounds

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

: C3HF7



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Molecular weight	: 170.04
Melting point [°C]	: -129.5
Boiling point [°C]	: -17.3
Critical temperature [°C]	: 100.0
Vapor pressure, 25°C	: 454.63 kPa
Relative density	: 1.4
Solubility in water [mg/l]	: unknown
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

Acute Toxicity – Inhalation Product

Heptafluoropropane LC50 (Rat,4hr) >788696 ppm

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

: UN3296 Heptafluoropropane, 2.2

UN-NO (DOT)

: UN3296

Proper shipping name

: Heptafluoropropane

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



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Before Transporting product containers

potential hazards of the load and knows what to do in case of an accident or emergency.

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.