

Section 1: Product and company Information

1.1 Product Identifier

Trade Name : R-410A

Formula : CH2F2 (50%) & CH2CF3 (50%)

MSDS No : GCI-016

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 : R-410A

Contents : Difluoromethane (CH2F2) (50%) +

Pentafluoroethane (CH2CF3) (50%)

Section 2: Hazard Identification

Hazards identification : Liquefied gas

May cause frostbite and may displace oxygen and cause suffocation. 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 Remove victim to fresh air and keep at rest in a

position comfortable for breathing. Get

medical attention if adverse health effects persist

or are severe.



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Section 4: Firefighting Measures

Flammable class Non-flammable.

Specific hazards Contact with fire may cause containers to rupture

or explode.

Suitable extinguishing media Use appropriate extinguishing media for

surrounding fire.

Specific methods Stop flow of product if safe to do so.

Special protective equipment In confined space use self-contained breathing

apparatus.

Section 5: Handling and Storage

Keep container below 52°C in a well ventilated Storage

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.

Section 7: Physical and Chemical properties

Physical state at 20°C : Liquefied gas.

Color : Colorless.

Odor : Faint ethereal odor.

Molecular formula : CH2F2, CH2CF3

Molecular weight : 72.6

Melting point [°C] : -155

Boiling point [°C] : -48.5

Critical temperature [°C] : 72.8



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Vapor pressure, 21°C : 215.3 psia

Relative density, gas (air=1) : 3.0

Relative density, liquid (water=1) : 1.08 g/cm³

Solubility in water [mg/l] : unknown

Section 8: Stability and Reactivity

Stability and reactivity Stable under normal conditions.

Any source of high temperature, such as lighted cigarettes, flames, hot spots or welding may yield toxic and/or corrosive decomposition products.

Section 9: Toxicological Information

Acute Toxicity:

Product/Ingredient	Result	Species	Dose	Exposure
Name				
Difluoromethane	LC50 Inhalation Gas	Rat	3780 mg/m ³	1 hour
	LC50 Inhalation Vapor	Rat	1890 g/m ³	4 hours
Pentafluroethane	LC50 Inhalation Vapor	Rat	2910 g/m ³	4 hours

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 : UN3163, Liquefied N.O.S, Pentafluoroethane,

Difluoromethane, 2.2

UN-NO (DOT) : UN3163

Proper shipping name : Liquefied N.O.S, Pentafluoroethane,

Difluoromethane

Hazard labels (DOT) : 2.2 – Non-flammable gas





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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 us 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 no 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.