

MATERIAL SAFETY DATA SHEET (MSDS/SDS) Brand Name: Pureon

Section 1: Product Identification

Product Name : R410A Refrigerant

: Hydrofluorocarbon Blend (R32/R125) **Chemical Name**

CAS Number : R32 [75-10-5], R125 [354-33-6]

Manufacturer

Emergency Contact:

Section 2: Hazard Identification

- **GHS Classification**:
 - Non-flammable (Safety Group A1 per ASHRAE 34).
 - **Hazard Statements:**
 - H280: Contains gas under pressure; may explode if heated.
 - H332: Harmful if inhaled (in high concentrations).
 - **Precautionary Statements:**
 - P410+P403: Protect from sunlight/store in a well-ventilated place.
 - P304+P340: If inhaled, remove to fresh air.
- **Potential Hazards:**
 - **Asphyxiant** in high concentrations (displaces oxygen).
 - Decomposes at high temperatures (>200°C), releasing toxic gases (e.g., hydrogen fluoride).





Section 3: Composition/Information on Ingredients

Components:

o **R32 (Difluoromethane)**: 50% | CAS 75-10-5

o **R125 (Pentafluoroethane)**: 50% | CAS 354-33-6

Section 4: First-Aid Measures

Inhalation : Move to fresh air. Seek medical attention if breathing is difficult.

Skin Contact: Wash with soap and water.

Eye Contact: Flush with water for 15 minutes. Consult a physician.

Ingestion : Not a likely route of exposure. Do NOT induce vomiting.

Section 5: Fire-Fighting Measures

Extinguishing Media : Use CO₂, dry chemical, or foam.

Hazards from Fire : Decomposes to release hydrogen fluoride

(HF) and carbonyl fluoride (COF₂).

Protective Equipment: Wear self-contained breathing apparatus (SCBA).

Section 6: Accidental Release Measures

Ventilate area : Avoid ignition sources.

Personal Precautions: Wear gloves, goggles, and respiratory protection.

Containment : Use a gas-tight recovery system. Do NOT vent to

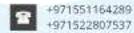
atmosphere.

Section 7: Handling and Storage

Handling : Use in well-ventilated areas. Avoid contact with open flames or

hot surfaces.

Storage : Store in cool, dry, well-ventilated areas away from direct sunlight.









Section 8: Exposure Controls/PPE

Ventilation: Ensure adequate airflow.

PPE: Safety goggles, gloves, and respirator (if working in confined spaces).

Section 9: Physical and Chemical Properties

Appearance : Colorless gas.

Odor : Faint ether-like smell.

Boiling Point : -51.6°C (-60.9°F) at 1 atm.

Vapor Pressure : ~1,600 kPa (232 psi) at 20°C.

Density : 1.15 kg/m³ (gas, 25°C).

Section 10: Stability and Reactivity

Stability : Stable under normal conditions.

Conditions to Avoid: Temperatures >200°C, open flames, or reactive metals (e.g.,

sodium).

Section 11: Toxicological Information

Acute Toxicity: Low toxicity. High concentrations may cause dizziness,

asphyxiation.

Chronic Effects: No known long-term effects from typical exposure.

Section 12: Ecological Information

GWP : $2,088 (CO_2 = 1)$.

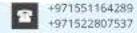
Environmental Impact: High global warming potential. Do NOT release into the

atmosphere.

Section 13: Disposal Considerations

- Dispose via certified refrigerant reclamation services.
- **Regulatory Compliance**: Follow local laws (e.g., EPA Section 608 in the USA).

Pureon Refrigerant Gases Pvt. Ltd.









Section 14: Transport Information

UN Number : UN1078 (Refrigerant gas, N.O.S.).

Transport Class : 2.2 (Non-flammable gas).

Section 15: Regulatory Information

• Regulations:

■ EU F-Gas Regulation (No. 517/2014).

U.S. EPA SNAP Program.

Listed under REACH.

Section 16: Other Information

Training: Personnel must be trained in safe handling of high-pressure refrigerants.

Revisions :

For more information on Pureon™ refrigerants, visit pureon.ae

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