

Material Safety Data Sheet (MSDS/SDS) for Pureon®

R-32 Refrigerant (Difluoromethane)

Brand Name: Pureon

Section 1: Product Identification

- **Product Name** : R-32 Refrigerant
- **Chemical Name** : Difluoromethane
- **Trade Name** : Pureon® R-32
- **CAS Number** : 75-10-5
- **UN No** : UN 3252 (Flammable Gas, Category 1)
- **Manufacturer** : Pureon® (or your specified company name)

Section 2: Hazard Identification

- **GHS Classification:**
 - **Flammability:** Classified as A2L (lower flammability). Forms flammable mixtures with air at 13.3–29.3% concentration.
 - **Health Risks:**
 - Asphyxiation: High concentrations displace oxygen, leading to dizziness or suffocation.
 - Frostbite: Liquid contact causes cold burns.
 - **Decomposition:** Releases toxic hydrogen fluoride (HF) if exposed to fire or extreme heat.

Section 3: Composition

- **Purity:** ≥99.9% Difluoromethane.

Section 4: First-Aid Measures

- Inhalation** : Move to fresh air; provide oxygen if breathing is labored.
- Skin Contact** : Gently thaw frostbitten areas with lukewarm water (avoid rubbing).
- Eye Contact** : Flush eyes with water for 15 minutes; seek medical care.

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Section 5: Fire-Fighting Measures

Extinguishing : Use CO₂, dry chemical, or water spray (from a safe distance).

Critical Action : Shut off gas supply if safe; cool containers with water.

Section 6: Accidental Release

Response : Evacuate, ventilate, and eliminate ignition sources. Use PPE (gloves, goggles).

Containment : Allow gas to disperse naturally; avoid spraying water on leaks.

Section 7: Handling and Storage

Ventilation : Use in well-ventilated areas only.

Ignition Sources : Prohibit open flames, sparks, or hot surfaces nearby.

Storage : Store upright in cool, dry, ventilated areas away from sunlight.

Section 8: Exposure Controls

PPE : Safety goggles, gloves, and respiratory protection in confined spaces.

TLV : 500 ppm (8-hour TWA, ACGIH).

Section 9: Physical Properties

Appearance : Colorless gas.

Odor : Slight ether-like smell.

Boiling Point : -51.7°C (-61°F)

Flammable Range : 13.3–29.3% in air.

Section 10: Stability & Reactivity

Stability : Stable under normal use. Reacts with strong oxidizers; decomposes >350°C to HF.

Section 11: Environmental Impact

GWP : 675 (100-year horizon).

ODP : 0 (no ozone depletion).

Section 12: Disposal

- Recover via certified systems; never vent. Follow local/regional regulations.

Section 13: Regulatory Information

- Complies with EPA, REACH, OSHA, and other applicable standards.

Section 14: Additional Notes

- Refer to the **latest Pureon® SDS** for precise handling, safety, and emergency protocols.

Section 15: Where to Find MSDS:

- Pureon® official website or authorized distributors.
- Request directly from Pureon® technical support.

Section 16: Other Information

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

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

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