

# 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**

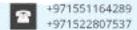
**Inhalation** : Move to fresh air; provide oxygen if breathing is labored.

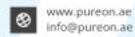
**Skin Contact**: Gently thaw frostbitten areas with lukewarm water (avoid

rubbing).

**Eye Contact**: Flush eyes with water for 15 minutes; seek medical care.

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#### **Section 5: Fire-Fighting Measures**

**Extinguishing**: Use CO<sub>2</sub>, 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** :  $-51.7^{\circ}$ C ( $-61^{\circ}$ F)

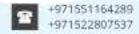
**Flammable Range**: 13.3–29.3% in air.

#### **Section 10: Stability & Reactivity**

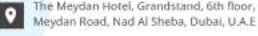
**Stability** : Stable under normal use. Reacts with strong oxidizers;

decomposes >350°C to HF.

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#### **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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