

Material Safety Data Sheet (MSDS/SDS) Summary for R-134a (1,1,1,2-Tetrafluoroethane)

Brand Name: Pureon

Section 1: Product Identification

- **Product Name** : R-134a Refrigerant
- **Chemical Name** : 1,1,1,2-Tetrafluoroethane
- **Synonyms** : R-134a, HFC-134a, Pureon (brand name))
- **CAS Number** : 811-97-2
- **USE** : Refrigerant in automotive/industrial air conditioning, refrigeration systems, and aerosol propellants.

Section 2: Hazard Identification

- **GHS Classification:**
 - **Gas under pressure (H280)** : Contains gas under pressure; may explode if heated).
 - **May cause frostbite (H290).**
- **Key Risks:**
 - **Asphyxiation** in confined spaces.
 - **Frostbite** from liquid/gas contact.
 - **Decomposition** at high temps (>250°C) releases toxic **hydrogen fluoride (HF)**.

Section 3: Composition

- **Component:** 100% 1,1,1,2-Tetrafluoroethane (Pureon brand).

Section 4: First-Aid Measures

Inhalation : Move to fresh air; seek medical help if symptoms persist.

Skin/Eye Contact : Thaw frostbite with lukewarm water; flush eyes for 15 mints.

Section 5: Fire-Fighting Measures

Non-flammable chemical : but containers may rupture in fires. Use **CO₂/dry** extinguishers.

Decomposition Hazard : Toxic HF fumes if exposed to flames.

Section 6: Handling and Storage

Handling : Use Pureon-branded R-134a in ventilated areas avoid sparks/open flames.

Storage : Store Pureon cylinders upright in cool, dry areas (<52°C).

Section 7: Exposure Controls/PPE

PPE : Insulated gloves, safety goggles, and face shields when handling Pureon.

Section 8: Physical/Chemical Properties

Boiling Point : -26.3°C

Vapor Density : 3.6 (heavier than air).

Section 9: Ecological Information

GWP : 1430 (high global warming potential).

Regulations : Complies with EPA SNAP, EU F-Gas Regulation 517/2014.

Section 10: Disposal

Recycle/recover using approved equipment. Do **not vent** follow Pureon's disposal guidelines.

Section 11: Transport Information

UN 3159 : Refrigerant Gas R-134a (Pureon).

Section 12: Other Information

SDS Source : Refer to the latest Pureon-brand SDS for updates.

Note : Pureon is a brand name for R-134a; substitutes like R-1234yf may apply for lower GWP.

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

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