

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

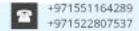
• **Component:** 100% 1,1,1,2-Tetrafluoroethane (Pureon brand).

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.

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Section 5: Fire-Fighting Measures

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

chemical 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.

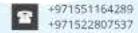
Section 10: Disposal

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

Section 11: Transport Information

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

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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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