Luxus LPG SIA

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SIMPLIFIED SAFETY DATA SHEET

REFRIGERANT R-125

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

Trade name: Refrigerant R-125

Chemical name / Structure: Pentafluoroethane (1,1,1,2,2-pentafluoroethane)

CAS number: 354-33-6 **EC number:** 206-557-8

Formula: C_2HF_5 **Synonyms:** HFC-125, R-125

Use: Refrigerant fluid for refrigeration and air conditioning systems.

SECTION 2: HAZARDS IDENTIFICATION

WARNING

H280: Contains gas under pressure; may explode if heated.

Precautionary statements:
P410+P403: Protect from sunlight. Store in a well-ventilated place.

Emergency overview: Colorless, non-flammable liquefied gas. Vapors are heavier than air and may reduce available oxygen, causing a risk of asphyxiation in enclosed spaces.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Pentafluoroethane (R-125): 99.7% (substance) — CAS: 354-33-6

SECTION 4: FIRST AID MEASURES

Inhalation: Move the person away from the exposure area to fresh air. Artificial respiration and/or oxygen may be necessary. Consult a doctor immediately.

Contact: The liquid may cause frostbite. Thaw affected areas with water, carefully remove clothing, then rinse thoroughly. Consult a doctor.

SECTION 5: FIRE-FIGHTING MEASURES

Non-flammable under normal atmospheric conditions. Use an extinguishing agent suitable for the surrounding fire. Heating causes a pressure increase with a risk of container rupture. Cool exposed containers with water spray.

SECTIONS 6 & 7: HANDLING & STORAGE

Dispersion: Ensure adequate ventilation. Avoid accumulation in basements, pits, and low-lying areas. Prevent further leakage if it can be done safely.

Storage: Keep in the original container, tightly closed, in a cool, well-ventilated place. Protect from sunlight. Storage temperature must not exceed 45°C.

SECTION 8: EXPOSURE CONTROLS

Respiratory protection: If ventilation is inadequate, wear suitable respiratory equipment; self-contained apparatus in an emergency.
Hand protection: Protective gloves suited to low temperatures.
Eye protection: Safety goggles or face shield.

SECTION 14: TRANSPORT INFORMATION

UN number: UN 3220

Official name: PENTAFLUOROETHANE (REFRIGERANT GAS R 125)

Hazard class: Class 2.2 — Non-flammable, non-toxic gas (Tunnel code: C/E)

Simplified sheet in accordance with regulatory MSDS data - Luxus LPG SIA © 2026