Luxus LPG SIA

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SIMPLIFIED SAFETY DATA SHEET

REFRIGERANT R-452A

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

Trade name: Refrigerant R-452A

Chemical name / Structure: HFC/HFO blend (Pentafluoroethane / Tetrafluoropropene / Difluoromethane)

CAS number: Blend / **Synonyms:** Opteon™ XP44, Solstice® R452A

Use: Heat transfer 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 liquefied gas with a characteristic odor. Non-flammable gas. Vapors are heavier than air and may reduce available oxygen, causing a rapid risk of asphyxiation in enclosed spaces.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Pentafluoroethane (R-125): 50-70%

2,3,3,3-Tetrafluoroprop-1-ene (R-1234yf): 10-30%

Difluoromethane (R-32): 10-30%

SECTION 4: FIRST AID MEASURES

Inhalation: Move the victim away from the exposure area while ensuring your own safety. If unconscious, check breathing and perform artificial respiration if necessary. Consult a doctor.

Contact: In case of frostbite, shower with running water for 10 minutes or more. Do not use hot water.

SECTION 5: FIRE-FIGHTING MEASURES

Non-flammable gas. Risk of internal pressure increase and violent rupture of containers under intense heat. When burned, emits toxic hydrogen fluoride (HF) fumes.

SECTIONS 6 & 7: HANDLING & STORAGE

Dispersion: Isolate and ventilate the area, particularly low points. Prevent entry into sewers and work pits.

Storage: Keep in a cool, well-ventilated place. Storage temperature must not exceed 45°C.

SECTION 8: EXPOSURE CONTROLS

Wear cold-resistant (or leather) protective gloves, safety goggles with side shields, or a face shield. Self-contained breathing apparatus required in an emergency.

SECTION 14: TRANSPORT INFORMATION

UN number: UN 1078

Official name: REFRIGERANT GAS, N.O.S. (PENTAFLUOROETHANE; 2,3,3,3-TETRAFLUOROPROP-1-ENE)

Hazard class: Class 2 (Tunnel code: C/E)

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