

Refrigerants -- SDS

PLACEHOLDER DOCUMENT -- This SDS is a structured placeholder for review purposes only. It must be replaced with a formally reviewed and approved Safety Data Sheet before commercial distribution. Prepared in accordance with the GHS (Globally Harmonised System) / REACH Regulation (EC) No 1907/2006 format guidance.

SECTION 1 -- IDENTIFICATION	
Property	Typical Value
Product name	AISO Refrigerants Range
Product type	Lubricant / Chemical product
Supplier	AISO Lubricants & Automotive LLC
Address	30 N Gould St Ste R, Sheridan, WY 82801, United States
Contact	info@aisolubricants.com www.aisolubricants.com
Emergency contact	Contact local emergency services / poison centre
Intended use	Industrial / automotive lubrication and maintenance

- SECTION 2 -- HAZARD IDENTIFICATION
- GHS Classification: Gases under pressure -- liquefied gas.
 - R-134a, R-410A, R-407C: Not flammable (A1 class). R-1234yf: Mildly flammable (A2L class).
 - May cause cold burns / frostbite on skin contact with liquid phase.
 - High concentrations may cause oxygen displacement -- ensure ventilation.

- SECTION 3 -- COMPOSITION / INFORMATION ON INGREDIENTS
- Composition details are proprietary. Product is based on mineral and/or synthetic base oils and a proprietary additive package.
 - Relevant ingredients and CAS numbers will be disclosed in the final approved SDS.
 - This placeholder does not list individual ingredient concentrations.

- SECTION 4 -- FIRST AID MEASURES
- Skin contact: Wash thoroughly with soap and water. Remove contaminated clothing.
 - Eye contact: Irrigate with clean water for at least 15 minutes. Seek medical attention if irritation persists.
 - Ingestion: Do not induce vomiting. Rinse mouth with water. Seek medical attention.
 - Inhalation: Remove to fresh air. If breathing is difficult, seek medical assistance.
 - Note to physician: Treat symptomatically. No specific antidote.

- SECTION 5 -- FIREFIGHTING MEASURES
- Suitable extinguishing media: CO2, dry chemical, foam, water mist.
 - Unsuitable media: Direct water jet on burning liquid.
 - Combustion products: Carbon monoxide, carbon dioxide, sulphur dioxide (product-dependent).
 - Protective equipment: Self-contained breathing apparatus (SCBA) and full protective clothing.

- SECTION 6 -- ACCIDENTAL RELEASE MEASURES
- Contain spill. Prevent entry into drains, waterways, and soil.
 - Absorb with sand, earth, or inert material. Collect in sealed containers.
 - Dispose in accordance with local environmental regulations.

- SECTION 7 -- HANDLING & STORAGE
- High-pressure cylinders -- handle with care. Keep upright and secured.
 - Store in cool, ventilated area. Exposure to heat may cause cylinder rupture.
 - Use appropriate PPE -- cryogenic burns possible on contact with liquid refrigerant.

SECTION 8 -- EXPOSURE CONTROLS / PERSONAL PROTECTION

- Engineering controls: Use in well-ventilated areas. Provide local exhaust ventilation if mist or vapour generated.
- Skin protection: Chemical-resistant gloves (nitrile or neoprene recommended).
- Eye/face protection: Safety glasses or face shield where splash risk exists.
- Respiratory protection: Not normally required under good ventilation. If mist present, use OV/P100 respirator.
- Exposure limits: Refer to applicable national workplace exposure limit regulations.

SECTION 9 -- PHYSICAL & CHEMICAL PROPERTIES

Property	Typical Value
Appearance	Liquid (colour varies by grade)
Odour	Mild petroleum/mineral odour
Flash Point (degC)	See Technical Data Sheet -- grade dependent
Boiling point / range (degC)	>200 (estimated)
Vapour pressure @ 20 degC	Negligible
Solubility in water	Negligible / insoluble (except water-miscible grades)
Relative density (kg/L)	0.85-1.09 (grade dependent)

SECTION 10 -- STABILITY & REACTIVITY

- Stable under normal conditions of storage and use.
- Conditions to avoid: Extreme heat, open flames, strong oxidising agents.
- Hazardous decomposition products: Carbon oxides, sulphur compounds (at high temperature).

SECTION 11 -- TOXICOLOGICAL INFORMATION

- Acute oral toxicity: Low (based on base oil composition -- LD50 > 2000 mg/kg estimated).
- Skin irritation: May cause mild irritation with prolonged contact.
- Eye irritation: May cause transient irritation.
- Carcinogenicity: Not classified. Mineral base oils in this product are severely refined.
- IARC: Base oils (severely refined) -- Group 3 (not classifiable as carcinogenic).

SECTION 12 -- ECOLOGICAL INFORMATION

- Ecotoxicity: Low aquatic hazard expected based on composition.
- Persistence / biodegradability: Mineral oils are poorly biodegradable (< 60% in 28 days).
- Bioaccumulation: Low potential due to molecular weight.
- Do not allow to enter drains, surface water, or groundwater.

SECTION 13 -- DISPOSAL CONSIDERATIONS

- Dispose of product and contaminated packaging in accordance with local, regional, and national regulations.
- Do not pour down drains or into waterways.
- Used lubricant oil should be collected for re-refining or energy recovery.
- Empty containers may retain residues -- treat as contaminated waste.

SECTION 14 -- TRANSPORT INFORMATION

- This product is not classified as dangerous goods for transport under standard conditions.
- Road (ADR): Not regulated as dangerous goods (base oils / lubricants).
- Sea (IMDG): Not regulated -- verify with shipping agent for specific formulations.
- Air (IATA): Not regulated under standard classification.
- Note: Aerosol products and flammable grades may be subject to transport regulations -- consult SDS for specific product.

SECTION 15 -- REGULATORY INFORMATION

- REACH (EC 1907/2006): Substances in this product may be registered under REACH.
- CLP Regulation (EC 1272/2008): Classification based on known composition.
- US TSCA: Substances are listed or exempt on the TSCA Inventory.
- Final regulatory status must be confirmed in the approved SDS.

SECTION 16 -- OTHER INFORMATION

- This document is a placeholder SDS prepared for internal review only.
- Date of placeholder: 2026
- Prepared by: AISO Lubricants & Automotive LLC -- pending final approval
- This document must be replaced with a formally reviewed and approved SDS before commercial distribution.

DISCLAIMER

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