

SSR H-1F COOLANT™

MATERIAL SAFETY DATA SHEET

Effective Date: 01/01/2005

Ingersoll-Rand Food Grade Coolant is specifically formulated for use in Ingersoll-Rand Rotary Air Compressors and is USDA approved for H-1 service in food packing plants.

1. **PRODUCT IDENTIFICATION:** Synthetic hydrocarbon base chemical family - Polyalphaolefin

2. **HAZARDOUS INGREDIENTS:** The components of this product are not listed as hazardous or toxic according to OSHA (29 CFR OSHA 1910.1200), NTP, IARC, and SARA 313.

Hazardous Materials Identification System (HMIS):

Health	Flammability	Reactivity	Basis	Hazard Ratings Key:	
0	1	0	—	4 = Highest	0 = Lowest

3. **PHYSICAL DATA:**

Boiling Point: Not established

Vapor Pressure: Nil @ 20° C

Vapor Density: Not applicable

Solubility in Water: Negligible

Appearance: Clear

Melting Point: Not established

Specific Gravity: 0.825 - 0.829

Percent Volatile: Nil @ 70° F

Evaporation Rate: 0

Odor: Little odor

4. **FIRE AND EXPLOSION HAZARD DATA:**

Flash Point: 465°F, 240°C

Method Used: COC

Autoignition: Not determined

Fire Fighting Media: Small fire - Carbon dioxide or dry chemical. Large fire - foam or water spray

Special Fire Fighting Procedures: Use water to keep fire-exposed container cool. Water spray may be used to flush spills away from exposures. Use foam and water spray carefully to prevent excessive frothing. Special Fire and Explosion Hazard: Slight when exposed to heat or flames. Can react with strong oxidizing materials. Combustible. Toxic fumes may be given off when material is exposed to fire.

Flammable Limits: Not determined

5. **HEALTH HAZARD:**

Threshold Limit Value: No data available. Observe current ACGIH TLV of 5 mg/m3 for base fluid mist.

Effects on Exposure: Prolonged or repeated skin contact may tend to remove natural skin oils, thus leading to possible irritation and dermatitis.

Skin Contact: See section above on "Effects on Exposure".

Skin Absorption: Not established

Ingestion: Not established.

Inhalation: Remove from exposure to fumes and mist.

Eyes: Not established

Systemic & Other Effects: Not established

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6. REACTIVITY DATA:

Stability: Stable. Will not react violently with water.

Incompatibility (Materials to Avoid): Strong oxidizing agents (bromates, chlorates, liquid oxygen, etc.)

Hazardous Decomposition Products: Oxides of carbon (CO and/or CO₂).

Hazardous Polymerization: Will not occur.

7. HANDLING PRECAUTIONS:

Exposure Guidelines: Observe current ACGIH TLV of 5 mg/m³ for base fluid mist.

Ventilation: None required at ambient temperatures. Yes, if mist exceeds TLV.

Respiratory Protection: Usually none during normal use. Mechanical filter if mist exceeds TLV.

Skin Protection: Polyvinyl alcohol, butyl rubber or polyethylene gloves.

Eye Protection: Safety glasses, as required.

Special Handling and Storage: Normal precautions common to good manufacturing practice should be followed in handling and storage. Do not wear oil soaked clothing. Avoid frequent or prolonged skin contact or inhalation.

8. ENVIRONMENTAL AND DISPOSAL INFORMATION:

Steps to be Taken in Case of Spills: Stop flow. (Use skin protection per section 7) Absorb or scrape up.

Waste Disposal Method: Dispose in accordance with local, state and federal regulations. Observe government spill and water quality regulations.

9. FIRST AID:

Eyes: Flush with water for at least 15 minutes holding lid away from eye. Consult a physician if irritation persists.

Skin: Remove by wiping. Wash with soap and water.

Skin Contact: See section above on "Effects on Exposure".

Ingestion: Do not induce vomiting. Seek medical aid.

Inhalation: Remove from exposure to fumes, mist. No hazard at ambient temperatures.

10. PREPARED BY: Ingersoll-Rand

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