

X-TEND™ FOOD GRADE COOLANT

MATERIAL SAFETY DATA SHEET

Effective Date: March 3, 2006

Ingersoll Rand Food Grade Coolant is specifically formulated for use in Ingersoll Rand Rotary Air Compressors and is NSF 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, SARA 313.

Hazardous Materials Identification System (HMIS):

Health – 0 Flammability – 1 Reactivity – 0

Ratings Key: 4 = Highest hazard, 0 = Lowest Hazard

3. **PHYSICAL DATA:**

Vapor Pressure:	Nil @ 20°C	Percent Volatile:	Nil @ 70°F
Vapor Density (Air = 1)	Not applicable	Evaporation Rate:	0
Specific Gravity:	0.83	Appearance:	Light Blue Liquid
Boiling Point	Not established	Odor:	Little Odor
Melting Point:	Not established	Solubility in water:	Negligible

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

Flash Point: 273°C

Method Used: COC

Autoignition: Not Determined

Extinguishing Media: Small fire – Carbon dioxide or dry chemical. Large fire – foam or water spray

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 5mg/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.

Eye Protection: Safety glasses, as required.

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

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: Waste must be disposed of in accordance with federal, state and local regulations. Observe government spill and water quality regulations.

9. FIRST AID MEASURES:

Eye Contact: 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".

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

Ingestion: If swallowed, do NOT induce vomiting. Seek medical aid.

10. PREPARED BY: Ingersoll Rand

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