



CCN 24134751  
 Revision B  
 Approval Date 9/4/2013  
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## Material Safety Data Sheet

### Section 1. Chemical Product and Company Identification

|                             |   |                                 |  |
|-----------------------------|---|---------------------------------|--|
| Product Name/<br>Trade Name | <b>ULTRA FG</b>   | Product<br>ID No.               | <b>23973969; 23973977;<br/>23973985</b>                              |
| Supplier                    | INGERSOLL RAND COMPANY<br>800B BEATY STREET<br>DAVIDSON, NC 28036 USA | 24-hour<br>Emergency<br>Contact | 1-800-535-5053 (US)<br>1-352-323-3500 (US)<br>+1-352-323-3500 (Intl) |
| Synonym(s)                  | None  | Non-<br>emergency<br>Contact    | 704-655-4000 (North America)<br>Ingersoll Rand Company               |
| Chemical Name               | Synthetic lubricant   | Chemical Formula                | Mixture  |
| Chemical Family             | Synthetic lubricant   | Material Uses                   | Compressor lubricant   |

### Section 2. Composition and Information on Ingredients

| Name  | PEL/TLV, Source  | CAS #               | % by Weight |
|---|--|---------------------|-------------|
| PROPRIETARY FORMULA. Contains no ingredients present at reportable levels per OSHA regulations. | None established<br><br>In the absence of an established PEL/TLV, <b>5 mg/m<sup>3</sup> (oil mist)</b> is recommended as an occupational exposure limit. | Proprietary mixture | 100         |
| LC <sub>50</sub> LD <sub>50</sub> of Ingredients  | Not available  |                     |             |

### Section 3. Hazards Identification

|                                  |   |
|----------------------------------|---|
| <b>Emergency Overview</b>        | Potential health risks vary from person to person. As a precaution, exposure to liquids, vapors, mists or fumes should be minimized.  |
| <b>Potential Health Effects:</b> |   |
| <b>Eye Contact</b>               | May cause slight irritation and redness.  |
| <b>Skin Contact</b>              | Prolonged or repeated contact may cause mild irritation.  |
| <b>Ingestion</b>                 | Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts.  |
| <b>Inhalation</b>                | Vapor inhalation under ambient conditions is not normally a problem. May cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of oil mist at airborne levels above the recommended oil mist exposure limit. Aspiration into lungs may cause pulmonary edema or pneumonitis. |

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**Section 3. Hazards Identification (cont'd)**

|           |                  |                |                           |                       |                  |
|-----------|------------------|----------------|---------------------------|-----------------------|------------------|
|           |                  |                |                           | <b>HAZARD RATINGS</b> |                  |
| HMIS Code | Health: <b>1</b> | Fire: <b>1</b> | Physical Hazard: <b>0</b> | 0 Minimal Hazard      | 3 Serious Hazard |
|           |                  |                |                           | 1 Slight Hazard       | 4 Severe Hazard  |
|           |                  |                |                           | 2 Moderate Hazard     |                  |

**Section 4. First Aid Measures**

|                     |  |
|---------------------|--|
| <b>Eye Contact</b>  | Immediately flush eyes with water and continue washing for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.  |
| <b>Skin Contact</b> | Wash skin with soap and water.   |
| <b>Ingestion</b>    | If the patient is fully conscious, give two glasses of water. DO NOT induce vomiting. If signs or symptoms of toxicity are present, obtain medical attention. NOTE TO PHYSICIAN: Low toxicity by swallowing. Any material aspirated during vomiting may cause lung injury. If it is considered necessary to evacuate the stomach contents, this should be done by means least likely to cause aspiration (e.g., gastric lavage after endotracheal intubation). |
| <b>Inhalation</b>   | Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention immediately.   |

**Section 5. Fire and Explosion Data**

|   |  |  |               |
|---|--|--|---------------|
| <b>Autoignition Temperature</b>                     | Not available  | <b>Sensitivity to Impact</b>           | Not available |
| <b>Flash Point</b>                                  | 507°F (264°C), ASTM D 92   | <b>Sensitivity to Static Discharge</b> | Not available |
| <b>Flammable Limits (Approx.)</b>                   | <i>LOWER</i> Flammable Limit: N/A  | <i>UPPER</i> Flammable Limit: N/A      |               |
| <b>Explosion Hazards</b>                            | See Lower and Upper Flammable Limits   |  |               |
| <b>Products of Combustion</b>                       | Carbon monoxide, carbon dioxide, smoke and irritating vapors are products of incomplete combustion.  |  |               |
| <b>Fire Fighting Media and Instructions</b>         | Dry chemical, alcohol foam, and carbon dioxide type extinguishing agents may all be suitable for extinguishing fires involving this type of product, depending on the size or potential size of fire and circumstances related to the situation. Plan fire protection and response strategy through consultation with local fire protection authorities or appropriate specialists. The following procedures for this type of product are based on the recommendations in the National Fire Protection Association's Fire Protection Guide on Hazardous Materials. Use water to keep fire-exposed containers cool. If a leak or spill has not ignited, use water spray to disperse the vapors and to provide protection for men attempting to stop a leak. Water spray may be used to flush spills away from explosives. Firefighters should wear full protective gear, including helmet. Use supplied-air breathing to flush spills away from explosives. Firefighters should wear full protective gear, including helmet. Use supplied-air breathing equipment for enclosed or confined spaces or as otherwise needed. |  |               |
| <b>Special Remarks - Fire and Explosion Hazards</b> | For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus. Leaks/ruptures in high-pressure systems using materials of this type can create a fire hazard when in the vicinity of ignition sources (open flame, pilot lights, sparks or electric arcs).   |  |               |

**Section 6. Accidental Release Measures**

|                             |  |
|-----------------------------|--|
| <b>Release or Spill</b>     | Recover free product. Add sand, earth, or other suitable absorbent material to the spill area. Minimize breathing vapors. Minimize skin contact. Open all windows and doors. Keep product out of sewers and watercourses by diking or impounding. Advise authorities if the product has entered or may enter sewers, watercourse, or extensive land areas. |
| <b>Environmental Impact</b> | Report spills as required to the appropriate authorities. U.S Coast Guard Regulations require immediate reporting of spills that could reach any waterway including intermittent dry creeks. Report spill to the Coast Guard toll-free number 800-424-8802.  |

**Section 7. Handling and Storage**

|  |   |
|--|---|
| <b>Storage</b>                           | Do not use in high-pressure systems in the vicinity of flames, sparks, and hot surfaces. Keep container closed. Do not store near heat, sparks, open flame, pilot lights, static electricity, or where temperature may exceed 120°F (49°C).   |
| <b>Handling Procedures and Equipment</b> | Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. "Empty" containers retain product residue and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition as they may explode and can cause injury or death. Empty container should be promptly returned to a drum reconditioner. |

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**Section 8. Exposure Controls and Personal Protection**

|                               |  |
|-------------------------------|--|
| <b>Respiratory Protection</b> | Use respiratory protection if needed to keep airborne levels below recommended oil mist exposure limits. See Section 2.  |
| <b>Ventilation</b>            | Ventilation Use in a well-ventilated area. See Engineering Controls.   |
| <b>Protective Gloves</b>      | Protective Gloves Any lined non-permeable rubber gloves.   |
| <b>Eye Protection</b>         | Chemical splash goggles or face shield in compliance with OSHA regulations are advised when eye contact may occur.   |
| <b>Personal Hygiene</b>       | Wash skin thoroughly after contact, before breaks and meals and at end of work period. Product is readily removed from skin by waterless hand cleaners followed by washing thoroughly with soap and water. |
| <b>Engineering Controls</b>   | If user operations generate an oil mist, use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below the recommended oil mist exposure limits.       |

**Section 9. Physical and Chemical Properties**

|                               |   |  |                         |
|-------------------------------|---|--|-------------------------|
| <b>Appearance/Odor</b>        | Amber viscous liquid with little or no odor | <b>Vapor Pressure</b>                        | N/A                     |
|                               |   | <b>Vapor Density</b>                         | N/A                     |
| <b>Odor Threshold</b>         | Not available                               | <b>Percent Volatile</b>                      | Nil                     |
| <b>Specific Gravity</b>       | 0.87 (typical)                              | <b>Evaporation Rate</b>                      | N/A                     |
| <b>Density</b>                | S.G. = 0.8612 (typical)                     | <b>Viscosity</b>                             | 46 cSt @ 40°C (nominal) |
| <b>Molecular Weight</b>       | Not available                               | <b>Solubility in Water</b>                   | N/A                     |
| <b>pH</b>                     | N/A   | <b>Coefficient of Water/Oil Distribution</b> | Not available           |
| <b>Boiling Point</b>          | N/A   | <b>Physical State</b>                        | Liquid                  |
| <b>Freezing/Melting Point</b> | Not available                               |  |                         |

**Section 10. Stability and Reactivity Measures**

|  |  |
|--|--|
| <b>Stability</b>                         | Stable under normal temperatures and pressures.  |
| <b>Conditions of Instability</b>         | Not available  |
| <b>Conditions of Reactivity</b>          | Not available  |
| <b>Conditions and Materials to Avoid</b> | This product is normally unreactive; however, avoid strong bases at high temperatures, strong acids, strong oxidizing agents and materials reactive with hydroxyl compounds. |
| <b>Hazardous Polymerization</b>          | Hazardous polymerization will not occur.   |
| <b>Hazardous Decomposition Products</b>  | Carbon monoxide, carbon dioxide, smoke and irritating vapors as products of incomplete combustion.   |

**Section 11. Toxicological Information**

|                                       |   |
|---------------------------------------|---|
| <b>Routes of Entry</b>                | Dermal contact, eye contact, inhalation, ingestion.   |
| <b>Toxicity to Animals</b>            | Not available   |
| <b>Effects of Acute Exposure</b>      | Not available   |
| <b>Acute Effects of Sensitization</b> | Not available   |
| <b>Ingestion</b>                      | Not available   |
| <b>Inhalation</b>                     | Not available   |
| <b>Toxically Synergistic Products</b> | Not available   |
| <b>Chronic Effects of Humans:</b>     |   |
| <b>Carcinogenic Effects</b>           | This product does not contain a carcinogen or potential carcinogen as listed by NTP, IARC, or OSHA [29 CFR 1910.1200(D)#4]. |
| <b>Mutagenic Effects</b>              | No data available to indicate any components present at greater than 0.1% may present a mutagenic hazard.                   |

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**Section 11. Toxicological Information (cont'd)**

**Teratogenic Effects** No data available to indicate any components present at greater than 0.1% may present a teratogenic hazard.

**Reproductive Effects** No data available to indicate any components present at greater than 0.1% may present a reproductive hazard.

**Section 12. Ecological Information**

**Ecotoxicity** There is no data available on the adverse effects of this material on the environment.

**Section 13. Disposal Considerations**

**Waste Disposal** Consult federal, state or local authorities for proper disposal and reporting procedures. All disposals must comply with federal, state and local regulations.

**Section 14. Transportation Information**

**U.S. D.O.T.**

|                       |               |                       |      |
|-----------------------|---------------|-----------------------|------|
| <b>Shipping Name:</b> | Not regulated | <b>UN Number:</b>     | None |
| <b>Hazard Class:</b>  | None          | <b>Packing Group:</b> | None |

**Remarks** It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of this material.

**Section 15. Regulatory Information**

**U.S. Federal Regulations:**

**CERCLA** Release of the following chemical(s) at quantities equal to or greater than the reportable quantities (RQ), is regulated by 40 CFR 302.4 :  
None

**SARA (Section 313)** This product contains the following chemical(s) listed in Section 313 at or above the de minimis concentrations:  
None

**SARA Extremely Hazardous List** This product contains greater than 1.0% of the following chemical(s) on the SARA Extremely Hazardous Substances List:  
None

**TSCA Inventory** All components of this material are on the U.S. TSCA Inventory.

**California Prop. 65** This product contains the following chemical(s) known to the State of California to cause birth defects or other reproductive harm:  
None

**International Regulations:**

**Canada** All components are in compliance with the Canadian Environmental Protection Act. This product has been classified in accordance with the hazard criteria of the CPR and this MSDS contains all the information required by CPR.

**Japan MITI** Not available

**Australia** Not available

**Switzerland** Not available

**Section 16. Other Information**

|  |  |                 |          |
|--|--|-----------------|----------|
| <b>Approval Date</b>                       | 9/4/2013                               | <b>CCN</b>      | 24134751 |
| <b>Supersedes Date</b>                     | 3/8/2012                               | <b>Revision</b> | B        |
| <b>Prepared by</b>                         | Product Engineering/Technical Services |                 |          |
| <b>Sections Revised Since Last Version</b> | Section 1                              |                 |          |

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