



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/ Trade Name	ULTRA FG	Product ID No.	23973969; 23973977; 23973985
Supplier	INGERSOLL RAND COMPANY 800B BEATY STREET DAVIDSON, NC 28036 USA	24-hour Emergency Contact	1-800-535-5053 (US) 1-352-323-3500 (US) +1-352-323-3500 (Intl)
Synonym(s)	None	Non-emergency Contact	704-655-4000 (North America) 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	Proprietary mixture	100
	In the absence of an established PEL/TLV, 5 mg/m³ (oil mist) is recommended as an occupational exposure limit.		
LC ₅₀ LD ₅₀ of Ingredients	Not available		

Section 3. Hazards Identification	
Emergency Overview	Potential health risks vary from person to person. As a precaution, exposure to liquids, vapors, mists or fumes should be minimized.
Potential Health Effects:	
Eye Contact	May cause slight irritation and redness.
Skin Contact	Prolonged or repeated contact may cause mild irritation.
Ingestion	Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts.
Inhalation	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)					
				HAZARD RATINGS	
HMIS Code	Health: 1	Fire: 1	Physical Hazard: 0	0 Minimal Hazard	3 Serious Hazard
				1 Slight Hazard	4 Severe Hazard
				2 Moderate Hazard	

Section 4. First Aid Measures

Eye Contact	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.
Skin Contact	Wash skin with soap and water.
Ingestion	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).
Inhalation	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

Autoignition Temperature	Not available	Sensitivity to Impact	Not available
Flash Point	507°F (264°C), ASTM D 92	Sensitivity to Static Discharge	Not available
Flammable Limits (Approx.)	<i>LOWER</i> Flammable Limit: N/A		<i>UPPER</i> Flammable Limit: N/A
Explosion Hazards	See Lower and Upper Flammable Limits		
Products of Combustion	Carbon monoxide, carbon dioxide, smoke and irritating vapors are products of incomplete combustion.		
Fire Fighting Media and Instructions	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.		
Special Remarks - Fire and Explosion Hazards	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

Release or Spill	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.
Environmental Impact	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

Storage	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).
Handling Procedures and Equipment	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

Respiratory Protection	Use respiratory protection if needed to keep airborne levels below recommended oil mist exposure limits. See Section 2.
Ventilation	Ventilation Use in a well-ventilated area. See Engineering Controls.
Protective Gloves	Protective Gloves Any lined non-permeable rubber gloves.
Eye Protection	Chemical splash goggles or face shield in compliance with OSHA regulations are advised when eye contact may occur.
Personal Hygiene	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.
Engineering Controls	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

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

Section 10. Stability and Reactivity Measures

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

Section 11. Toxicological Information

Routes of Entry	Dermal contact, eye contact, inhalation, ingestion.
Toxicity to Animals	Not available
Effects of Acute Exposure	Not available
Acute Effects of Sensitization	Not available
Ingestion	Not available
Inhalation	Not available
Toxically Synergistic Products	Not available
Chronic Effects of Humans:	
Carcinogenic Effects	This product does not contain a carcinogen or potential carcinogen as listed by NTP, IARC, or OSHA [29 CFR 1910.1200(D)#4].
Mutagenic Effects	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.
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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.
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Section 14. Transportation Information

U.S. D.O.T.			
Shipping Name:	Not regulated	UN Number:	None
Hazard Class:	None	Packing Group:	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

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Prepared by	Product Engineering/Technical Services		
Sections Revised Since Last Version	Section 1		

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