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## Material Safety Data Sheet

# Kaeser Compressors, Inc.

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- I. Product Name: **SIGMA Lubricant FG** Date Issued/Revised: November 9, 2004  
Chemical Family: Synthetic based lubricant  
Use: Lubricant and corrosion inhibitor  
Manufacturer: Royal Purple, Ltd.  
Address: 1 Royal Purple Lane, Porter, Texas 77365 USA  
Phone: 281-354-8600 Emergency Phone: 281-354-8600 Fax: 281-354-7600
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- II. Component: CAS Number: Percentage:  
• Poly Alpha Olefin 68037-01-4 75 to 89%  
• Synthetic Olefin 9003-29-6 8 to 24%  
• Synthetic Corrosion and Antiwear 80939-62-4 0.5 to 1 %  
• Synthetic Antioxidant 41484-35-9 0.2 to 0.5 %
- This product contains no hazardous substance within the definition of OSHA Regulation 29 CFR 1910.1200.
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- III. Main Hazards / Health Effects:  
Eyes: May cause irritation.  
Inhalation: Hydrocarbon mist may line breathing passages with oil making breathing difficult.  
Ingestion: May cause diarrhea.  
Skin: May irritate the skin after prolonged periods of contact.
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- IV. First Aid:  
Eyes: Flush with water until all residual material is gone. If irritation persists, seek medical help.  
Inhalation: Clear air passage. If respiratory difficulty continues, seek medical help.  
Ingestion: Wash out mouth immediately. Do not induce vomiting. Consult physician.  
Skin: Wash thoroughly with hand cleanser, followed by soap and water. Contaminated clothing should be dry cleaned before reuse.
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- V. Extinguishing Media:  
Suitable: Foam, dry powder, Halon®, carbon dioxide, sand, earth and water mist.  
Unsuitable: Water jet.  
Protective Equipment for Fire Fighting: Self-contained breathing apparatus.
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- VI. Accidental Release Measures:  
Personal Precautions: Wear gloves and protective overalls.  
Environmental Precautions: Do not allow it to enter drains.  
Spillage: Contain spill and keep from entering waterways. Absorb on porous material. Large quantities can be pumped.
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- VII. Handling and Storage:  
Handling: No special handling precautions necessary.  
Storage: Do not store at elevated temperatures.
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- VIII. Exposure Control / Personal Protection:  
Respiratory Protection: Hydrocarbon absorbing respirator if misting.  
Hand Protection: Oil-proof gloves for hypersensitive persons.  
Eye Protection: Glasses, if applied to parts in motion.  
Body Protection: Overalls.
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- IX. Physical and Chemical Properties:  
Physical State: Liquid  
Color: Clear  
Odor: Mild Hydrocarbon  
pH: Neutral  
Boiling Range / Point °F (°C): >700 (>371)  
Pour Point °F (°C): <-30 (<-34)  
Flash Point (COC) °F (°C): >480 (>249)  
Autoignition Temperature °F (°C): >600 (>315)  
Evaporation Rate (Butyl Acetate): Negligible  
Vapor Pressure (kPa): <0 .0 1  
Volatiles: None  
Density (g/cm<sup>3</sup>): >0.8 and <1.0  
Flammability: Not flammable at ambient temp.  
Oxidizing Properties: None  
Water Solubility: Insoluble  
Vapor Density: Greater than air
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- X. Stability and Reactivity:**  
**Stability:** Chemically stable under normal conditions. No photoreactive agents.  
**Conditions to Avoid:** Powerful sources of ignition and extreme temperatures.  
**Materials to Avoid:** Strong inorganic and organic acids, oxidizing agents.  
**Hazardous Decomposition Products:** Burning generates smoke, airborne soot, hydrocarbons and oxides of carbon, sulfur and nitrogen. Residue mainly comprised of soot and mineral oxides.
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- XI. Toxicological Information:**  
**Acute Toxicity:** Not known  
**Irritancy-Skin:** Very mild  
**Skin Sensitization:** Not known  
**Subacute / Sub-chronic Toxicity:** Not known  
**Genotoxicity:** None known  
**Chronic Toxicity:** None known
- California Prop 65:** N/A  
**Carcinogen:** NTP: No  
**IARC:** No  
**OSHA:** No  
**EC Classification (67 / 548 / EEC):** No  
**LC-50:** >2000mg/l - extrapolated from component data  
**LD-50:** Not applicable
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- XII. Ecological Information:**  
**Possible Effects:** In extreme cases, may generate oil fractions that could act as a marine pollutant. Occurrences of this nature are highly unlikely.  
**Behavior:** Relatively well behaved. Bioaccumulation potential nil.  
**Environmental Fate:** Due to its fluid nature and specific gravity, this product will float or spread across water making it a nuisance contaminant. It is not thought to be toxic to marine or land organisms.
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- XIII. Waste and Container Disposal:**  
**Waste Disposal:** Consider recycling. This product, as sold, does not meet the RCRA characteristics of a hazardous waste. Under RCRA, it is the responsibility of the user, at the time of disposal, to determine whether the product meets the RCRA criteria for hazardous waste. Contact a waste disposal company or local authority for advice.  
**Container Disposal:** See waste disposal section listed above.
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- XIV. Transport Information:**  
**DOT:** Nonhazardous  
**UN No.:** N/A
- Air Transport (ICAO, IATA):** Bulk Nonhazardous  
**Sea Transport (IMO, IMDG):** Bulk Nonhazardous  
**Road and Rail Transport (ADR / RID):** Bulk Nonhazardous:
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- XV. Regulatory Information:**  
**Labeling Information:** None needed  
**EC Annex 1 Class.:** N/A  
**R Phrases:** N/A  
**SARA 311 / 312:** None  
**S Phrases:** S-3 keep cool, S-16 keep away from ignition sources  
**Ozone Depleting Chemicals:** N/A
- CERCLA:** Nonhazardous  
**TSCA:** All components are listed  
**WHMIS (Canada):** Not regulated  
**Canadian DSL:** All components are listed  
**40 CFR Part 372 (SARA Section 313):** N/A  
**RCRA Hazard Class:** Nonhazardous  
**TSCA 12B Components:** None
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- XVI. Other Information:**

Signature: \_\_\_\_\_

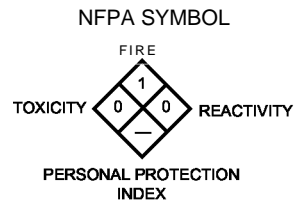


Prepared By: **A.L. Gustavsen, Ph.D.**

**Date Issued/Revised:** November 9 2004

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LEGEND	
I.	Identification of the Substance / Preparation and Company
II.	Composition Information on Ingredients
III.	Hazards Identification
IV.	First Aid Measures
V.	Fire Fighting Measures
VI.	Accidental Release Measures
VII.	Handling and Storage
VIII.	Exposure Control / Personal Protection
IX.	Physical and Chemical Properties
X.	Stability and Reactivity
XI.	Toxicological Information
XII.	Ecological Information
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XIV.	Transport Information
XV.	Regulatory Information
XVI.	Other Information



**HMS SYMBOL**

HEALTH	0
FLAMMABILITY	1
REACTIVITY	0
PPI	N/A