# MATERIAL SAFETY DATA SHEET



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MSDS No: KAESER SIGMA FG-680 022307

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**Revision No: 1** 

### SIGMA Lubricant FG-680

## 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** SIGMA Lubricant FG-680 **GENERAL USE:** Lubricant and corrosion inhibitor **CHEMICAL FAMILY:** Synthetic based lubricant

### **MANUFACTURER**

#### 24 HR. EMERGENCY TELEPHONE NUMBERS

Manufactured for Kaeser Compressors, Inc. **USA:** 800-424-9300

511 Sigma Drive

Fredericksburg, VA 22408

Product Stewardship: 281-354-8600

**International**: 703-527-3887(collect calls accepted)

### 2. HAZARDS IDENTIFICATION

### POTENTIAL HEALTH EFFECTS

**EYES:** May cause irritation.

**SKIN:** May irritate the skin after prolonged periods of contact.

**INGESTION:** May cause diarrhea.

**INHALATION:** Hydrocarbon mist may line breathing passages with oil making breathing difficult.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Poly Alpha Olefin Synthetic	85 - 89	68037-01-4
Synthetic Olefin	8 - 12	9003-29-6
Synthetic Corrosion and Antiwear	0.5 - 0.1	80939-62-4
Synthetic Oxidation Inhibitor	0.2 - 0.5	41484-35-9
Synthetic Ashless EP Additive	0.1 - 0.5	10254-57-6
Mixed Alkyl Diphenyl Amine	0.1 - 0.3	68411-46-1

**COMMENTS:** This product contains no hazardous substances within the definition of OSHA Regulation 29 CFR 1910.1200.

### 4. FIRST AID MEASURES

EYES: Flush with water until all residual material is gone. If irritation persists, seek medical help.

**SKIN:** Wash thoroughly with hand cleanser, followed by soap and water. Contaminated clothing should be dry cleaned before reuse.

**INGESTION:** Wash out mouth immediately. Do not induce vomiting. Consult physician. **INHALATION:** Clear air passage. If respiratory difficulty continues, seek medical help.

## 5. FIRE FIGHTING MEASURES

FLASH POINT AND METHOD: > 249°C (480°F) COC AUTOIGNITION TEMPERATURE: > 315°C (600°F)

**EXTINGUISHING MEDIA:** Foam, dry powder, Halon®, carbon dioxide, sand, earth and water mist.

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Unsuitable: Water jet.

**OTHER CONSIDERATIONS:** Not flammable at ambient temp. **FIRE FIGHTING EQUIPMENT:** Self-contained breathing apparatus.

### 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Contain spill and keep from entering waterways. Absorb on porous material. Large quantities can be pumped.

### **ENVIRONMENTAL PRECAUTIONS**

LAND SPILL: Do not allow it to enter drains.

**SPECIAL PROTECTIVE EQUIPMENT:** Wear gloves and protective overalls.

## 7. HANDLING AND STORAGE

**HANDLING:** No special handling precautions necessary. **STORAGE:** Do not store at elevated temperatures.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

## PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Glasses, if applied to parts in motion. **SKIN:** Oil-proof gloves for hypersensitive persons.

**RESPIRATORY:** Hydrocarbon absorbing respirator if misting.

**PROTECTIVE CLOTHING:** Overalls.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Liquid **ODOR:** Mild Hydrocarbon

**COLOR:** Clear **pH:** Neutral

**PERCENT VOLATILE:** None **VAPOR PRESSURE:** < 0.01

**VAPOR DENSITY:** Greater than air **BOILING POINT:** > 371°C (700°F)

**POUR POINT: -35°C** 

FLASH POINT AND METHOD: > 249°C (480°F) COC

**EVAPORATION RATE:** Negligible

**DENSITY:** > 0.8

**OXIDIZING PROPERTIES:** None

### 10. STABILITY AND REACTIVITY

**STABILITY:** Chemically stable under normal conditions. No photoreactive agents. **CONDITIONS TO AVOID:** Powerful sources of ignition and extreme temperatures.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Burning generates smoke, airborne soot, hydrocarbons and oxides of carbon, sulfur and nitrogen. Residue mainly comprised of soot and mineral oxides.

INCOMPATIBLE MATERIALS: Strong inorganic and organic acids, oxidizing agents.

### 11. TOXICOLOGICAL INFORMATION

### **ACUTE**

**ORAL LD<sub>50</sub>:** > 2000 mg/kg

**Notes:** Extrapolated from component data

**INHALATION LC<sub>50</sub>:** Not applicable.

SKIN EFFECTS: Very mild CHRONIC: None known. SUBCHRONIC: Not known

CARCINOGENICITY

IARC: No NTP: No OSHA: No

**SENSITIZATION:** Not known

## 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL DATA:** 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.

BIOACCUMULATION/ACCUMULATION: Relatively well behaved. Bioaccumulation potential nil.

#### 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** 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.

**EMPTY CONTAINER:** See waste disposal section listed above.

### 14. TRANSPORT INFORMATION

**DOT (DEPARTMENT OF TRANSPORTATION)** 

UN/NA NUMBER: N/A

OTHER SHIPPING INFORMATION: Nonhazardous ROAD AND RAIL (ADR/RID): Bulk Nonhazardous

**AIR (ICAO/IATA):** Bulk Nonhazardous **VESSEL (IMO/IMDG):** Bulk Nonhazardous

### 15. REGULATORY INFORMATION

### **UNITED STATES**

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

**311/312 HAZARD CATEGORIES:** None **313 REPORTABLE INGREDIENTS:** N/A

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA REGULATORY: Nonhazardous
TSCA (TOXIC SUBSTANCE CONTROL ACT)
TSCA REGULATORY: All components are listed

**CALIFORNIA PROPOSITION 65:** N/A

**CANADA** 

WHMIS (WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM): Not regulated

**DOMESTIC SUBSTANCE LIST (INVENTORY):** All components are listed

## **16. OTHER INFORMATION**

**REVISION SUMMARY:** Revision #: 1. This MSDS replaces the February 1, 2013 MSDS. Any changes in information are as follows: In Section 1: Approval Date, Date Prepared; In Section 3: List of Ingredients

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## **HMIS RATING**

HEALTH:	0
FLAMMABILITY:	1
PHYSICAL HAZARD:	0
PERSONAL PROTECTION	٧:



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