

# MATERIAL SAFETY DATA SHEET



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Date Issued: 02/02/2010  
 MSDS No: KAESER SIGMA S-150 022307  
 Date Revised: 02/04/2010  
 Revision No: 1

## SIGMA S-150 Synthetic Air Compressor Fluid

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** SIGMA S-150 Synthetic Air Compressor Fluid  
**GENERAL USE:** Lubricant and corrosion inhibitor  
**CHEMICAL FAMILY:** Synthetic based lubricant

#### MANUFACTURER

Manufactured for Kaeser Compressors, Inc.  
 511 Sigma Drive  
 Fredericksburg, VA 22408  
**Product Stewardship:** 281-354-8600

#### 24 HR. EMERGENCY TELEPHONE NUMBERS

**USA :** 800-424-9300  
**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
Synthetic Polyester	75 - 80	68515-47-9
Poly Alpha Olefin Synthetic	1 - 3	68037-01-4
Synthetic Olefin	8 - 14	9003-29-6
Synthetic Oxidation Inhibitor	0.5 - 1	68921-45-9
Synthetic Corrosion Inhibitor	0.5 - 1	28015-99-8
Synthetic Ashless EP Additive	1 - 5	10254-57-6
Synthetic Oxidation Inhibitor	0.5 - 1	41484-35-9

**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:** > 243°C (470°F) COC

**AUTOIGNITION TEMPERATURE:** > 315°C (600°F)

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

**pH:** Neutral

**PERCENT VOLATILE:** None

**VAPOR PRESSURE:** < 0.01

**VAPOR DENSITY:** Greater than air

**BOILING POINT:** > 371°C (700°F)

**POUR POINT:** -33°C

**FLASH POINT AND METHOD:** > 243°C (470°F) COC

**EVAPORATION RATE:** Negligible

**DENSITY:** > 0.90

**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

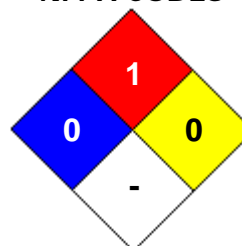
**DOMESTIC SUBSTANCE LIST (INVENTORY):** All components are listed

### **16. OTHER INFORMATION**

**REVISION SUMMARY:** Revision #: 1. This MSDS replaces the February 04, 2010 MSDS., Any changes in information are as follows: In Section 5: Flash Point Method In Section 11: Oral LD50 (Unit), Acute

**HMIS RATING**

<b>HEALTH:</b>	<b>0</b>
<b>FLAMMABILITY:</b>	<b>1</b>
<b>PHYSICAL HAZARD:</b>	<b>0</b>
<b>PERSONAL PROTECTION:</b>	

**NFPA CODES**

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