SIGMA M-460 Air Compressor Fluid

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: SIGMA M-460 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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Wt.%</th>
<th>CAS</th>
<th>EINECS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poly Ester Synthetic</td>
<td>5 - 10</td>
<td>68515-49-1</td>
<td></td>
</tr>
<tr>
<td>Hydrogenated ISO-Paraffin</td>
<td>85 - 90</td>
<td>64742-54-7</td>
<td>265-157-1</td>
</tr>
<tr>
<td>Synthetic Oxidation Inhibitor</td>
<td>0.5 - 1</td>
<td>68921-45-9</td>
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<tr>
<td>Synthetic Corrosion Inhibitor</td>
<td>0.5 - 1</td>
<td>28015-99-8</td>
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<tr>
<td>Synthetic Ashless EP Additive</td>
<td>1 - 5</td>
<td>10254-57-6</td>
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<tr>
<td>Synthetic Oxidation Inhibitor</td>
<td>0.5 - 1</td>
<td>41484-35-9</td>
<td></td>
</tr>
</tbody>
</table>

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: 218°C (425°F) COC
AUTOIGNITION TEMPERATURE: > 315°C (600°F)
EXTINGUISHING MEDIA: Foam, dry powder, Halon®, carbon dioxide, sand, earth and water mist.
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

EXPOSURE GUIDELINES

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>OSHA PEL ppm</th>
<th>mg/m³</th>
<th>ACGIH TLV ppm</th>
<th>mg/m³</th>
<th>Supplier OEL ppm</th>
<th>mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>STEL [1] NL</td>
<td>NL</td>
<td>NL</td>
<td>10</td>
<td>NL</td>
<td>NL</td>
</tr>
</tbody>
</table>

Footnotes:
1. NL = Not listed

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: > 316°C (600°F)

POUR POINT: -30°C

FLASH POINT AND METHOD: 218°C (425°F) COC

SOLUBILITY IN WATER: Insoluble

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$_{50}$: > 2000 mg/kg
   Notes: Extrapolated from component data
   INHALATION LC$_{50}$: 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.

GENERAL COMMENTS: When released into the environment, adsorption to sediment and soil will be the predominant behavior.

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)

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<td>Hydrogenated ISO-Paraffin</td>
<td>64742-54-7</td>
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</table>

TSCA REGULATORY: All components are listed
CALIFORNIA PROPOSITION 65: This product contains a chemical known to the state of California to cause birth defects or other reproductive harm.

CANADA
WHMIS (WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM): Not regulated
DOMESTIC SUBSTANCE LIST (INVENTORY): All components are listed

16. OTHER INFORMATION

REVISION SUMMARY: New MSDS

<table>
<thead>
<tr>
<th>HMIS RATING</th>
<th>NFPA CODES</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEALTH:</td>
<td>0</td>
</tr>
<tr>
<td>FLAMMABILITY:</td>
<td>1</td>
</tr>
<tr>
<td>PHYSICAL HAZARD:</td>
<td>0</td>
</tr>
<tr>
<td>PERSONAL PROTECTION:</td>
<td>-</td>
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</tbody>
</table>

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