

# MATERIAL SAFETY DATA SHEET

Arbor-Lube

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Manufacturer and distributor** K-Line Industries, Inc.  
315 Garden Avenue  
Holland, MI 49424

**Product use:** Lubricant for reaming and machining cast iron engine components

**Product description:** A mixture of SMF-500, water, ethanol and small amounts of miscellaneous ingredients.

**Emergency telephone number** (616)-396-3564 (Monday-Friday 8:00 a.m. - 5:00 p.m., Central)

**CHEMTREC:** 800-424-9300 (24 hours)

**Date prepared/issued:** 3/23/01

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

The criteria for listing components in the composition section include constituents that are present at 1.0% or greater, and are hazardous according to OSHA. This is not intended to be a complete compositional disclosure.

<u>Chemical Name</u>	<u>CAS #</u>	<u>% by Weight</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Ethanol	64-17-5	1-2%	1000 ppm	1000 ppm

## 3. HAZARDS IDENTIFICATION

**NFPA Hazard Classification** Fire hazard: 1 Health Hazard: 1 Reactivity Hazard: Not determined

### Potential Health Effects of Individual Constituents:

**Ethanol**

**Inhalation:** Inhalation of ethanol may cause respiratory tract irritation.

**Ingestion:** Ethanol overexposure may cause vomiting and distorted perceptions.

**Skin contact:** Ethanol may cause symptoms ranging from slight irritation to severe dermatitis.

**Eye contact:** Ethanol may cause eye irritation.

**Other effects:** May cause headache, nervousness, dizziness, tremors, fatigue, nausea, unconsciousness, sleep disorders, hallucinations, loss of muscular coordination and convulsions.

**Target organs:** Eyes, skin, nervous system, liver and respiratory system

**4. FIRST AID MEASURES**

<b>Inhalation</b>	Move to fresh air. If irritation develops, seek medical aid.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Seek medical aid if irritation persists. Wash clothing before reuse.
<b>Eye contact</b>	Rinse thoroughly with plenty of water, including under eye lids, for at least 15 minutes and consult a physician.
<b>Ingestion</b>	Not expected to be problem. However, if swallowed, DO NOT induce vomiting. Give large quantities of water. Seek medical aid immediately. Never give anything by mouth to an unconscious person.

**5. FIRE-FIGHTING MEASURES**

<b>Extinguishing media</b>	Use foam, dry chemical powder (preferred) or carbon dioxide.
<b>Specific hazards</b>	None.
<b>Firefighting Instructions</b>	Standard procedure for chemical fires. Exercise caution when fighting any chemical fire. A self-contained breathing apparatus and protective clothing are essential.

**6. ACCIDENTAL RELEASE MEASURES**

<b>Environmental precautions</b>	Do not flush into surface water or sanitary sewer system.
<b>Methods for cleaning up</b>	Clean up promptly by using an absorbant, vacuum or otherwise place in an approved container.

**7. HANDLING AND STORAGE**

<b>Handling</b>	<p>Provide suitable mechanical equipment for safe handling of drums and other heavy packages.</p> <p>Do not heat above Flash Point (&gt;210 °F). Keep containers closed. Handle and open containers with care to prevent leakage or spillage.</p> <p>Avoid contact with eyes, skin and clothing. Avoid breathing vapor if generated. Use adequate ventilation. Wash thoroughly after handling. Do not ingest.</p>
<b>Storage</b>	Keep at temperatures below 210 °F and away from ignition sources.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Engineering measures to reduce exposure

Avoid contact with the skin and the eyes. Use local exhaust ventilation where vapors may be generated.

### Personal protective equipment

#### Respiratory protection

No special protective equipment required assuming that ethanol vapor levels do not approach allowable levels.

#### Hand protection

Chemical resistant gloves.

#### Eye protection

Indirect vented goggles.

#### Skin and body protection

Long sleeved clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Form

Liquid with a soapy composition

### Color

Milky white

### Odor

Mild

### Physical and chemical properties

Flash point:> 210°F

Additional chemical and physical data is not available.

## 10. STABILITY AND REACTIVITY

### Stability

Product has not been tested.

### Materials to avoid

Product has not been tested. Ethanol, alone, is incompatible with acetyl chloride and oxidizing agents, and SMF-500, by itself, is incompatible with strong acids.

### Hazardous decomposition products

Product has not been tested. However, it is not believed to be affected by products causing hazardous decomposition. Ethanol, alone, is affected by carbon oxides causing hazardous decomposition.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

Product has not been tested.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity** Product has not been tested.

**13. DISPOSAL CONSIDERATIONS**

**Waste from residues/  
unused products** Ensure compliance with local, state and federal waste regulations.

**Contaminated packaging** Empty containers must comply with local, state and federal regulations prior to recycling, recovery or waste disposal.

**14. TRANSPORT INFORMATION**

**DOT Classifications** Not regulated.

**15. REGULATORY INFORMATION**

**Regulatory Information** Under SARA III Section 313, K-Line is required to inform you that the following compound is in the product.

**Chlorinated Ester** CAS# 68440-29-9 3% of the SMF-500 portion of mixture.

**16. OTHER INFORMATION**

**Disclaimer** The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication.

**Date prepared/issued:** 3/23/01