



# MSDS Document

## Product Encool SS-9779EP-AS-LF

### 1. Chemical Product and Company Identification

#### Product Encool SS-9779EP-AS-LF

**Synonyms:** Water Extendable Metal Working Fluid

**MSDS ID** EL11080

Engineered Lubricants Co.  
11525 Rock Island Court  
Maryland Heights , MO 63043

**Contact Name**

msds@englube.com

**Phone Number**

(314)872-9540 X3033

**Emergency Phone**

(800)424-9300

**Revision Date** 11/15/2011

Health:	1
Fire:	1
Reactivity:	0
Specific	

### 2. Composition and Information on Ingredients

Ingredient	CAS Number	Weight %	ACGIH TLV	PEL	STEL
REPORTABLE HAZARDOUS COMPONENTS	1111-11-11				
Ethanolamine	141-43-5	1% - 1.25%	6 mg/m3 TWA	6 mg/m3 TWA	

### 3. Hazard Identification

#### Emergency Overview

DARK AMBER CAUTION

#### APPEARANCE

LIQUID.

#### **PHYSICAL HAZARDS**

None expected.

#### **HEALTH HAZARDS**

##### **Potential Health Effects**

##### **Eye**

Moderately irritating to the eyes. May cause corneal injury.

##### **Skin**

Moderately irritating to the skin.

May cause sensitization.

##### **Inhalation**

Mist or vapors may cause irritation of mucous membranes and upper respiratory tract.

##### **Ingestion**

Harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

In normal industrial use ingestion is not considered a probable route of exposure.

#### **4. First Aid Information**

##### **Eye**

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Have eyes examined and tested by medical personnel.

##### **Skin**

Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

##### **Ingestion**

If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

##### **Inhalation**

If breathing is difficult move to fresh air. Call a physician if symptoms develop or persist.

#### **5. Fire Fighting Measures**

**Flash Point** N.D.- H<sub>2</sub>O Based

##### **Flammable Properties**

If water evaporates residual material will burn.

##### **Extinguishing Media**

Use water spray, regular foam, dry chemical, carbon dioxide.

### **Hazardous Combustion Products**

Carbon monoxide, carbon dioxide, ammonia and formaldehyde

### **PRECAUTIONS FOR FIRE-FIGHTING**

#### **Fire fighting instructions**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking supply.

## **6. Accidental Release Measures**

### **Personal Precautions**

Avoid contact with skin, eyes, and clothing.

### **METHODS FOR CONTAINMENT AND CLEAN UP**

#### **Containment**

Stop the flow of material, if this can be done without risk. Dike the spilled material, where this is possible.

#### **Clean-up**

Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container.

## **7. Handling and Storage**

### **SAFE HANDLING**

#### **Handling**

Avoid breathing (dust, vapor, mist, gas). Wash thoroughly after handling.

### **SAFE STORAGE**

#### **Storage**

Store in a cool dry place. Store in a tightly closed container. Keep container closed when not in use.

## **8. Exposure Controls and Personal Protection**

### **EXPOSURE LIMITS**

#### **OIL MIST**

OSHA PEL: MIST 5 MG/M<sup>3</sup> 8 HRS;

ACGIH TLV: MIST 5 MG/M<sup>3</sup> 8 HRS

#### **141-43-5; Ethanolamine**

ACGIH TLV: TWA 6 mg/m<sup>3</sup>; OSHA PEL: TWA 6 mg/m<sup>3</sup>

## PERSONAL PROTECTION

### Eyes

Wear tight fitting safety goggles (splash goggles).

### Hand Protection

Wear impervious gloves.

### Respirators

Wear the following respiratory protection if exposure limits may be exceeded: Wear a NIOSH-certified (or equivalent) respirator as necessary.

### Engineering controls

Good general ventilation should be sufficient to control airborne levels.

### Specific Hygiene Measures

Always observe good personal hygiene measures, such as washing after handling the material before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

## 9. Physical and Chemical Properties

Physical State	LIQUID
Specific Gravity	1.014
Density lbs/Gal.	8.442
Color/Appearance	TURQUOISE BLUE
Odor	Mild
pH	9.3~10% in aqueous solution
Boiling/Cond. Point	~ 212 F
Solubility	SOLUBLE IN H <sub>2</sub> O
VOC %	3.4% E1868 (110 min @ 81C)
Molecular Formula	Not determined
Viscosity	69.02 cSt @ 100F

## 10. Stability and Reactivity

### REACTIVITY

None expected.

### Stability

Material is stable under normal conditions.

### HAZARDOUS REACTIONS

None expected.

### Hazardous Reactions

Hazardous polymerization will not occur.

### Incompatible Materials

Strong oxidizers. Strong acids. Strong bases.

### **Hazardous Decomposition Products**

Material does not decompose at ambient temperatures.

## **11. Toxicological Information**

### **ACUTE ORAL TOXICITY**

Data obtained on components: # 64742-52-5: LD50/ oral/ rabbit: > 5000mg/kg.

### **ACUTE INHALATION TOXICITY**

No data available.

### **ACUTE DERMAL TOXICITY**

Data obtained on components: # 64742-52-5: LD50/ dermal/ rabbit: > 5000mg/kg.

### **4719-04-4**

Data obtained on components:

# 4719-04-4 LD50/ dermal/ rabbit: >1000 mg/kg

Data obtained on components: # 141-43-5 LD50/ dermal/ rabbit: >2000 mg/kg.

### **SKIN SENSITIZATION**

May cause sensitization.

### **GERM CELL MUTAGENICITY**

No data available.

### **CARCINOGENICITY**

#### **Chronic Toxicity**

There are no known carcinogenic chemicals in this product. (IARC, ACGIH, US OSHA, US NTP).

### **REPRODUCTIVE TOXICITY**

No data available.

### **ASPIRATION HAZARD**

None expected.

## **12. Ecological Information**

### **General**

This information is given based on data available for the material, components of the material, and similar materials.



### **ECOTOXICITY EFFECTS**

Harmful to fish and other water organisms.

### **PERSISTENCE AND DEGRADABILITY**

Readily Biodegradable.

#### **Bioaccumulation**

No information available.

## **13. Disposal Considerations**

#### **Waste Disposal Method**

According to local, state, and federal regulations.

Do not dump into any sewers, on the ground, or into any body of water.

## **14. Transportation Information**

#### **U.S. DOT**

Not Regulated

#### **SEA (IMDG)**

Not Regulated

#### **AIR (IATA)**

Not Regulated

## **15. Regulatory Information**

#### **OSHA Hazard Communication Standard**

When used for its intended purposes, this material is not classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

#### **US REGULATIONS**

#### **SARA Sections 311 and 312**

Immediate (Acute) Health Hazard: YES.

Delayed (Chronic) Health Hazard: YES. Fire Hazard: NO. Reactive Hazard: NO.

Sudden Release of Pressure Hazard: NO.

#### **SARA (313) TOXIC RELEASE INVENTORY**

NONE

**CERCLA (Comprehensive Environmental Response and Liability Act of 1980, S 103)**

### **Comprehensive Environmental Response and Liability Act (CERCLA)**

This material is not subject to any special reporting under the requirements of CERCLA.

### **EPCRA**

This material contains no extremely hazardous substances.

### **IARC**

#### **Carcinogenicity**

The major components of this product are not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

### **UNITES STATES INVENTORY (TSCA 8b)**

#### **U.S. Toxic Substances Control Act TSCA**

All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30

## **16. Other Information**

### **Disclaimer**

The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any representation or warranty expressed or implied, regarding its accuracy or correctness. The conditions or methods of handling, storage, use, and disposal of the product are beyond our control and may be beyond our knowledge. Therefore, we do not assume responsibility and expressly disclaim liability for loss, damage, or expense arising out of or in any way connected with the handling, storage, use, or disposal of the product.

### **LEGEND**

DOT- Department of Transportation; IMDG-International Maritime Dangerous Goods; IATA- International Air Transport Association; SARA-Superfund Amendments and Reauthorization Act; CERCLA-Comprehensive Environmental Response, Compensation, and Liability Act; EPCRA-Emergency Planning and Community Right-to-Know Act; IARC-International Agency for Research on Cancer. STOT-Specific Target Organ Toxicity.