CONFIDENTIAL
Please restrict the use to your internal company requirements.

Material Safety Data Sheet

ENSOL 856-NCS-FLC-PR

HMIS	
Health	1
Flammability	1
Reactivity	0
Protective Equipment	ABC

Section 1 – Chemical Product and Company Identification

Engineered Lubricants Co.
11525 Rock Island Court
Maryland Heights, MO 63043-3597

Emergency Phone Numbers
Engineered Lubricants: 314-872-9540
Transportation Emergencies: Chemtrec: 1-800-424-9300
After Hours Medical Emergencies: 1-800-876-0008 Ext. 3068

Product Description: Soluble Oil; Petroleum Hydrocarbon Oil Blend

Section 2 – Composition / Information on Ingredients

Hazardous Components Per 40 CFR Parts 302.4, 355.5, & 372.65	CAS #	% Vol	Exposure Limits		Carcinogen		
			ACGIH TLV	OSHA PEL	NTP	IARC	OSHA
Diethanolamine	111-42-2	<1.5	2mg/M³ (Sk)	N/E	N	N	N
Balance of Components: Trade Secret			N/E	N/E	N	N	N
Other Exposure Limits: Oil Mist			5mg/M³	5mg/M³			
Hydrogen Chloride Gas			5ppm (C)	5ppm (C)			
Triethanolamine			5mg/M³	N/E			

EPA SARA Title III Section 313 (40CFR 372) Toxic Chemicals Above De Minimis Levels: Diethanolamine

Hazard Categories (29CFR 1910.1200): Health: Acute **Physical:** None

The exact chemical identity of this product may be withheld as a **Trade Secret** in accordance with OSHA Hazard Communication Standard, 29 CFR 1910.1200(i). In a medical emergency, health professionals may obtain identity by calling 1-800-876-0008 Ext. 3068.

N/E = Not Established N/A = Not Applicable N/D = No Data/Not Determined C = Ceiling (Sk) = Skin

Section 3 – Physical and Chemical Properties

Color: Dark Amber
Odor: Mild
SpG 60°F: 0.98
Lb/Gal: 8.16
Physical State: Liquid
% Volatile By Vol.: Negligible
Solubility in Water: Complete
Boiling Point °F: ~212

Physical data are typical values based on material tested but may vary from batch to batch.

Section 4 – Fire-Fighting Measures

Flash Point °F: 370 **Method Used:** COC

Extinguishing Media: Dry Chemical, Foam, CO_2
Special Fire Fighting Procedures: Fire fighters should wear self-contained breathing gear.
Unusual Fire & Explosion Hazards: Closed containers may rupture if exposed to intense heat.

Section 5 – Stability and Reactivity

Stability: Stable **Hazardous Polymerization:** Will not occur
Conditions to Avoid: Excessive Heat, Nitrosating Agents
Incompatibility: Strong Oxidizing Agents, Acids, Alkalis.
Decomposition Products: Oxides of Carbon, Nitrogen, Sulfur; Acrolein, Hydrogen Chloride, and other products of incomplete combustion.

Section 6 – Health Hazard Information

Potential Health Effects

Skin Contact: Prolonged or repeated contact may cause irritation. May aggravate preexisting skin disorders.

Eye Contact: May cause irritation. Eye tearing (lacrimation) is possible if the product is subjected to extreme heat which is above normal operating temperatures.

Inhalation: Of mists or vapors may cause discomfort.

Ingestion: May cause gastrointestinal distress.

Emergency and First Aid Procedures

Skin Contact: Wash thoroughly with soap and water.

Eye Contact: Flush with running water for at least 15 minutes.

Inhalation: Move to fresh air. Consult a physician.

Ingestion: Do not induce vomiting. If conscious, give 2 glasses of water. Get medical attention

If irritated or if irritation persists, consult physician. Wash contaminated clothing before reuse.

Section 7 – Spill, Leak, and Disposal Procedures

Steps to be Taken in Case Material is Released or Spilled: Ventilate area. Do not allow to enter waterways and sewers. Wear appropriate protective equipment. Pick up free liquid for recycle and/or disposal. Collect remaining product with inert absorbent material for disposal.

Waste Disposal Method: According to local, state, and federal regulations.

Section 8 – Exposure Controls / Personal Protection

Eye: Where there is significant potential for eye contact, wear chemical goggles and have eye flushing equipment available.

Skin: Protective gloves and clothing are recommended.

Respiratory: Required if discomfort is experienced or if vapor levels are in excess of exposure limits (See Sec. 2). Follow OSHA respirator regulations (29 CFR 1910-134).

Ventilation: Provide general or local exhaust ventilation systems to maintain airborne concentrations below exposure limits (See Sec. 2).

Other Protective Equipment: If splash is unavoidable, wear appropriate impervious clothing.

Section 9 – Special Precautions and Comments

Precautions to be Taken in Handling and Storing: Some hydrogen chloride gas is evolved at room temperature. Increased amounts of hydrogen chloride gas can evolve at elevated temperatures. Do not store above 120F. Do not flame cut, braze, or weld containers (empty, part full or full). Empty containers are not to be used for storage or shipment of fluid of any type. When use of an empty container for waste is unavoidable, all current local, state, and federal regulations and procedures must be followed.

Other Precautions: Avoid contact with skin, eyes, and clothing. Wash hands with soap and water before eating, drinking, or smoking. Avoid or contain mists/vapors. Persons exposed to mists/vapors should wear an approved breathing device. Keep containers closed when not in use. Do not mix with products containing nitrites or other nitrosating agents. This product is slippery and may cause falls if walked on.

Date Prepared: 12/10/08 (Supersedes 5/13/04) **Code:** 11734