



MIGHTY LUBE®
Systematic Lubrication, Inc.

SAFETY DATA SHEET



Type ML Lubricant

REVISION DATE: January 01, 2019

SECTION 1

Product & Company Information

PRODUCT NAME: Mighty Lube Type ML Lubricant
PRODUCT CODE: ML
CHEMICAL FAMILY: Solvent, Ester MOS² Penetrating Lubricant
MOLECULAR FORMULA: Mixture

MANUFACTURER: Mighty Lube Systematic Lubrication Inc.
ADDRESS: 9569 West 40th Street, Fremont, MI 49412
PHONE: (231) 924-6160
24 HR. EMERGENCY TELEPHONE: (231) 924-6160

COMMENTS: To the best of our knowledge, this Safety Data Sheet conforms to the requirements of US OSHA 29 CFR 1910.1200, 91/155/EEC and Canadian Hazardous Products Act.

SECTION 2

Hazards Identification

GHS CLASSIFICATIONS

HEALTH: Aspiration Hazard, Acute 1
Skin Irritation, Category 2
PHYSICAL: Flammable Liquids, Category 3

GHS LABEL:



FLAMMABLE
LIQUID



EXCLAMATION
MARK



HEALTH
HAZARD

SIGNAL WORD: WARNING

HAZARD STATEMENTS:

H226: Flammable liquid and vapor.
H320: Causes eye irritation.
H316: Causes mild skin irritation.
H315: Causes skin irritation.
H332: Harmful if inhaled.
H302: Harmful if swallowed.
H242: Heating may cause a fire.
H335: May cause respiratory irritation.



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REVISION DATE: January 01, 2019

SECTION 2 *Continued*

Hazards Identification

PRECAUTIONARY STATEMENT(S)

PREVENTION:

P331: Do NOT induce vomiting.
P260: Do not breathe dust/fume/gas/mist/vapors/spray.
P305+P351+P338: IF IN EYES:
Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
P304+P340: IF INHALED:
Remove to fresh air and keep at rest in a position comfortable for breathing.
P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P337+P313: If eye irritation persists: Get medical advice/attention.
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
P371+P380+P375: In case of major fire and large quantities:
Evacuate area. Fight fire remotely due to the risk of explosion.
P210: Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

STORAGE:

P233: Keep container tightly closed.
P403+P233: Store in a well-ventilated place. Keep container tightly closed.
P210: Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P241: Use explosion-proof electrical/ventilating/lighting/.../ equipment.

DISPOSAL:

P501: Dispose of contents/container in accordance with local regulations.

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: Dark Gray Liquid

IMMEDIATE CONCERNS: CAUTION! May cause eye and skin irritation.

POTENTIAL HEALTH EFFECTS

EYES:

Moderate Irritation and Discomfort.

SKIN:

Moderate irritation and discomfort possible. De-fatting of skin, redness and chemical dermatitis possible. Toxic systemic effects from absorption are possible.

INGESTION:

Gastrointestinal tract irritation and/or discomfort is possible.

INHALATION:

Moderate respiratory discomfort and/or headaches.
Toxic systemic effects from inhalation are expected to be minor.

ROUTES OF ENTRY:

Absorption, Inhalation, Ingestion

TARGET ORGAN STATEMENT:

Skin, Mucous membranes and Lungs.

CANCER STATEMENT:

Contains material that may cause cancer.
Risk of cancer depends on duration and level of exposure.
Inadequate evidence available to evaluate the cancer hazard of this material.

SAFETY DATA SHEET: TYPE ML LUBRICANT | **PAGE 2 OF 8**



MIGHTY LUBE®
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Type ML Lubricant

REVISION DATE: January 01, 2019

SECTION 3

Composition / Information on Ingredients

CHEMICAL NAME	WT. %	CAS
Mineral Spirit Solvent	87	8052-41-3
Polyol Ester	>9	68130-55-2
Complex inhibitors provide anti-wear, oxidative stability, moisture displacement and rust protection	<3	Proprietary
Molybdenum Disulfide	<.5	1317-33-5
Petroleum Oil	<.5	8002-05-9

SECTION 4

First Aid Measures

- EYES:** Immediately flush eyes with plenty of water for 15 minutes. If irritation persists, seek medical attention.
- SKIN:** Remove contaminated clothing; wash contaminated area thoroughly with soap and water. If redness or irritation occurs, seek medical attention.
- INGESTION:** Do not induce vomiting due at aspiration hazard. If vomiting occurs lower head below knees to avoid aspiration. Seek immediate medical attention.
- INHALATION:** Remove victim from area of exposure. If unconscious, give oxygen. Give artificial respiration if not breathing. Get immediate attention.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

- CHRONIC EFFECTS:** Chronic effects of ingestion and subsequent aspiration into the lungs may cause pneumatocele (lung tumor) formation and chronic lung dysfunction.

SECTION 5

Fire Fighting Measures

- EXTINGUISHING MEDIA:** Use dry chemical, foam, or carbon dioxide.
- HAZARDOUS COMBUSTION PRODUCTS:** Oxides of carbon and noxious fumes.
- EXPLOSION HAZARDS:** Vapor accumulations may flash and/or explode if ignited. Keep ignition sources, open flames, etc., away from these fumes.
- FIRE FIGHTING PROCEDURES:** Proper respiratory equipment to protect against the hazardous effects of combustion products is recommended. Water in a straight hose stream may cause fire to spread and should be used as a cooling medium only.



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SAFETY DATA SHEET



Type ML Lubricant

REVISION DATE: January 01, 2019

SECTION 6

Accidental Release Measures

SMALL SPILL:

Extinguish possible sources of ignition. Evacuate all unprotected personnel and ventilate area. Only personnel equipped with proper respiratory, skin/eye protection should enter spill area. Dike area to contain spill and clean up by absorbing on an inert absorbent or other means. Don't flush into sewers or natural waterways.

LARGE SPILL:

Contain material as described above and call the local fire or police department for immediate emergency assistance.

SECTION 7

Handling and Storage

HANDLING:

Store in a cool, dry, ventilated area away from excessive heat, sparks and open flames. Avoid prolonged or repeated contact with skin and/or breathing of vapors when handling. Keep containers closed when not in use.

STORAGE:

Store unopened containers under cool, dry and ventilated conditions. Keep away from heat, sparks and flame.

STORAGE TEMPERATURE:

Ambient

LOADING TEMPERATURE:

Ambient

SHELF LIFE:

THE SHELF LIFE OF THIS PRODUCT IS UNDETERMINED, BUT MAY BECOME SUSPECT ONE YEAR FROM THE DATE OF PURCHASE.

**ELECTROSTATIC
ACCUMULATION HAZARD:**

Static Hazard: Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations, which have the potential of generating an accumulation of electrostatic charge and /or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gaging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures.

For more information, refer to OSHA Standard 29 CFR 1910.106, Flammable and Combustible Liquids, NFPA 77, Recommended Practice on Static Electricity' (liquids, powders, and dust), and/or the American Petroleum Institute (API) Recommended Practice 2003, Protection Against Ignitions Arising Out of Static, Lightning, and Stray Currents.



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SAFETY DATA SHEET

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SECTION 8

Exposure Controls / Personal Protection

EXPOSURE GUIDELINES:

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)							
Chemical Name		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		Supplier OEL	
		ppm	mg/m3	ppm	mg/m3	ppm	mg/m3
Stoddard Solvent	TWA	500 ppm	2900 mg/m3	100 ppm	572 mg/m3	NL	NL
	STEL	ppm	mg/m3	ppm	mg/m3	NL	NL
Ethyl Benzene	TWA	100	435	100 ppm	434		
	STEL			125 ppm	543		
1,2,4-Trimethylbenzene	TWA	ppm		25 ppm	123		

ENGINEERING CONTROLS:

If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure guidelines, additional ventilation or exhaust systems may be required. Where explosive mixtures may be present, electrical systems safe for such locations must be used.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE:

Wear safety glasses with side shields or goggles when handling this material.

SKIN:

To prevent any contact, wear impervious protective clothing such as nitrile or butyl rubber gloves, apron, boots or whole bodysuit, as appropriate.

RESPIRATORY:

Use NIOSH/MSHA approved respirators when vapors or mist concentrations exceed permissible exposure limits.

PROTECTIVE CLOTHING:

Chemical resistant boots, apron, etc. as necessary to prevent contamination of clothing and skin contact.

WORK HYGIENIC PRACTICES:

Good personal hygiene practices should always be followed.

SECTION 9

Physical and Chemical Properties

PHYSICAL STATE:

Liquid

ODOR:

Mild Hydrocarbon Odor

APPEARANCE:

Dark gray liquid

pH:

Not Applicable

PERCENT VOLATILE:

87

FLASHPOINT AND METHOD:

(105°F) to (110°F)
ASTM D56

FLAMMABLE LIMITS:

0.5 to 6.0

AUTOIGNITION TEMPERATURE:

(446°F)

VAPOR PRESSURE:

2.1 mmHg at (68°F)

VAPOR DENSITY:

4.7 (Air=1)

BOILING POINT:

(325°F) to (400°F)
ASTM D-2887

FREEZING POINT:

(-85°F) to (-13°F)

SOLUBILITY IN WATER:

Negligible

EVAPORATION RATE:

Not Available

SPECIFIC GRAVITY:

0.78 to 0.79 (water=1)

SAFETY DATA SHEET: TYPE ML LUBRICANT | PAGE 5 OF 8

**MIGHTY LUBE®**
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SAFETY DATA SHEET

**Type ML Lubricant**

REVISION DATE: January 01, 2019

SECTION 10**Stability and Reactivity**

REACTIVITY: No

HAZARDOUS POLYMERIZATION: Will not occur

STABILITY: Stable

CONDITIONS TO AVOID: Exposure to excessive heat, open flames and sparks. Avoid conditions that favor the formation of excessive mists and/or fumes.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of Carbon when burned.

INCOMPATIBLE MATERIALS: Strong oxidizing agents.

SECTION 11**Toxicological Information**

ACUTE:

DERMAL LD50: > 2000 mg/kg (rabbit) **ORAL LD50:** > 7000 mg/kg (rat) **INHALATION LC50:** 21 mg/l for 1 hr (calculated)

CHRONIC: Contains Ethyl Benzene which is considered a carcinogen under IARC. It has caused cancer in laboratory animal studies. The relevance of these findings to humans is uncertain.

CARCINOGENICITY:

Chemical Name	IARC Status
Ethyl Benzene	2B

SECTION 12**Ecological Information**

ENVIRONMENTAL DATA: This naphtha is potentially toxic to freshwater and saltwater ecosystems. It will normally float on water with its lighter components evaporation rapidly.

ECOTOXICOLOGICAL INFORMATION: Ecological effects testing have not been conducted on this material. If spilled, this naphtha, its storage tank water bottoms and sludge, and any contaminated soil or water may be hazardous to human, animal, and aquatic life. If released from its container, this material will probably contribute to the creation of atmospheric smog. n-Heptane, heptane isomers, and octane isomers all have estimated half-lives, of between 2.4 and 4.4 days in air when photochemical hydroxyl and/or nitrate radicals are present.

SECTION 13**Disposal Considerations**

DISPOSAL METHOD: Conditions of use may cause this material to become a hazardous waste as defined by state or federal law. Use approved treatment, transporters and disposal sites.

FOR LARGE SPILLS: Extinguish possible sources of ignition. Evacuate all unprotected personnel and ventilate area. Only personnel equipped with proper respiratory, skin/eye protection should enter spill area. Dike area to contain spill and clean up by absorbing on an inert absorbent or other means. Don't flush into sewers or natural waterways.

PRODUCT DISPOSAL: Dispose of at a supervised incineration facility or an appropriate waste disposal facility according to current applicable laws and regulations and product characteristics at time of disposal.

EMPTY CONTAINER: Vapor accumulations may flash and/or explode if ignited. Keep ignition sources, open flames, etc. away from these fumes.

SAFETY DATA SHEET: TYPE ML LUBRICANT | **PAGE 6 OF 8**



MIGHTY LUBE®
Systematic Lubrication, Inc.

SAFETY DATA SHEET



Type ML Lubricant

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SECTION 14

Transport Information

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Petroleum Distillates, N.O.S.

PRIMARY HAZARD CLASS/DIVISION: 3

UN/NA NUMBER: 1268 PACKING GROUP: III LABEL: Class 3, Flammable Liquid

SECTION 15

Regulatory Information

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: Fire Hazard, Acute (Immediate) Health Hazard.

FIRE: Yes PRESSURE GENERATING: No REACTIVITY: No ACUTE: Yes CHRONIC: Yes

313 REPORTABLE INGREDIENTS: 1,2,4-Trimethylbenzene (Pseudocumene) [CAS No. 95-63-6] conc.: 1 to 4%

EPCRA SECTION 313

SUPPLIER NOTIFICATION:

Chemical Name	Wt.%	CAS
1,2,4-Trimethylbenzene	0.5 - 5	95-63-6

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

Chemical Name	Wt.%	CERCLA RQ
Ethyl Benzene	0.1	1,000

CERCLA RQ:

Xylenes (RQ = 100 lbs.) conc.: 0.001 to 0.36%

Ethylbenzene (RQ = 1000 lbs.) conc.: 0 to 0.072%

Cumene (RQ = 5000 lbs.) conc.: 0.43 to 0.72%

TSCA (TOXIC SUBSTANCE CONTROL ACT)

Chemical Name	CAS
Stoddard solvent	8052-41-3
Ethyl Benzene	100-41-4
1,2,4-Trimethylbenzene	95-63-6

TSCA REGULATORY:

This material or its components are listed in the TSCA inventory.

CALIFORNIA PROPOSITION 65: This product contains chemical (s) known to the state of California to cause cancer/birth defects.

Chemical Name	Wt.%	LISTED
Ethyl Benzene	0.5 - 5	Cancer

CANADA

CANADIAN ENVIRONMENTAL
PROTECTION ACT:

All intentional ingredients are listed on the DSL (Domestic Substance List).

DOMESTIC SUBSTANCE LIST (INVENTORY): Listed

GENERAL COMMENTS:

Substances of Very High Concern - SVHC Status, Not Listed

SAFETY DATA SHEET: TYPE ML LUBRICANT | PAGE 7 OF 8



MIGHTY LUBE®
Systematic Lubrication, Inc.

SAFETY DATA SHEET



Type ML Lubricant

REVISION DATE: January 01, 2019

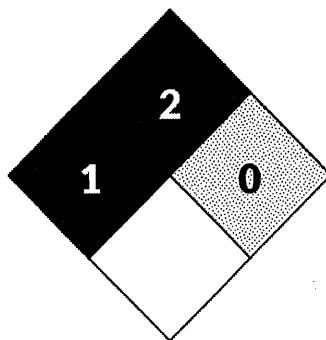
SECTION 16

Other Information

HMIS RATING

HEALTH	*	1
FLAMMABILITY		2
PHYSICAL HAZARD		0
PERSONAL PROTECTION		X

NFPA CODES



ADDITIONAL MSDS INFORMATION:

Caution! Can be made to burn.

Treat as an OSHA/NFPA Class IIIB Combustible Liquid.

Overexposure to mists or liquid may cause irritation to eyes, nose, throat, lungs and skin or aggravate a preexisting condition.

Prolonged or repeated contact with skin may defat the skin and cause dermatitis.

Avoid breathing mist or contact with skin and eyes.

MANUFACTURER DISCLAIMER:

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