LUBRI-LOY®
PREMIUM LUBRICANTS & GREASES

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MATERIAL SAFETY DATA SHEET

2014LSM

LUBRI-LITH SYN M

PREMIUM SYNTHETIC LITHIUM COMPLEX WITH MOLY NLGI # 2

LUBRI-LOY CATALOG #: 2014LSM, 2640LSM, 2192LSM, 27040LSM **DATE ISSUED:** 9/29/2010 New
REPLACES ISSUE: New Issue

I PRODUCT IDENTIFICATION AND EMERGENCY INFORMATION

Product Name	**LUBRI-LITH SYN M Premium Synthetic Lithium Complex with Moly NLGI # 2**
Lubri-Loy Catalog #'s	2014LSM, 2640LSM, 2192LSM, 27040LSM
Date Issued	9/29/2010 New
Replaces Issue	New Issue
24-Hr. Emergency Phone	CHEMTREC (800) 424-9300

II COMPOSITION, INFORMATION ON INGREDIENTS

INGREDIENT NAME	CAS NO.	WEIGHT
1-DECENE, HOMOPOLYMER, HYDROGENATED (COMMON NAME: POLYALPHAOLEFINS)	68037-01-4	50-70 %
LITHIUM COMPLEX THICKENER	Proprietary	10-30 %
FATTY ACIDS, C18-UNSATD., DIMERS, POLYMERS W/ 2-ETHYLHEXANOL & NEOPENTYL GLYCOL	68552-19-2	5-10 %
*ANTIMONY DIALKYLDITHIOCARBAMATE	Proprietary	1-2 %
**MOLYBDENUM SULFIDE (MoS2)	1317-33-5	3-5%

** This chemical(s) is hazardous according to OSHA/WHIMIS criteria*

COMPOSITION COMMENTS

Refer to section eight for exposure limits on ingredients.
Chemical ingredients not regulated by OSHA, SARA, state or federal agencies are treated confidentially.

III HAZARDS IDENTIFICATION

Emergency Overview	Not regarded as a health hazard under current legislation.
Carcinogenicity	IARC: Not listed as a Group 1, 2A, or 2B agent. OSHA: Not regulated. NTP: Not listed.
Teratogenicity	No data available to indicate product or any components contained at greater than 0.1% may cause birth defects.
Health Warnings	INHALATION. Oil mist can irritate airways and lungs. SKIN CONTACT. Slightly irritating. Repeated or prolonged contact can result in drying of the skin. EYE CONTACT. Irritating. INGESTION. Can cause stomach ache and vomiting.
Route of Entry	Inhalation. Skin and/or eye contact. Ingestion.

IV FIRST AID MEASURES

Inhalation	Move the exposed person to fresh air at once. For breathing difficulties oxygen may be necessary. Get medical attention if any discomfort continues.
Eyes	Rinse with water. Contact physician if discomfort continues.
Skin	Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.
Ingestion	DO NOT INDUCE VOMITING! Get medical attention immediately!

V FIRST AID MEASURES

Eye	Flush with water; if irritated, contact physician.
Skin	Wipe off and wash with soap and water. If irritation develops, contact physician.Very low toxicity by contact (LD50> 10,00 mg/kg)
Ingestion	Very low toxicity by ingestion (oral LD50>5,000 mg/kg). Give large amounts of water; contact physician. Informphysician product is inert/non-toxic.
Inhalation	Slightly toxic by inhalation (4 hr. LC 50 1,000-5000 ppm; 8-40 mg/l). If discomfort occurs, move tofresh air; contact physician.

VI FIRE FIGHTING MEASURES

Flash Point (°C)	232 (450°F) Cd OC (Cleveland open cup).
Flammability Limit - Lower(%)	N/D
Flammability Limit - Upper(%)	N/D
Flammability Class	No Uniform Fire Code noted.
Extinguishing Media	Use: Foam. Carbon dioxide (CO2). Dry chemicals, sand, dolomite etc.
Special Fire Fighting Procedures	Use water to keep fire exposed containers cool and disperse vapors. Water spray may be used to flush spills away from exposures and dilute spills to non-flammable mixtures.
Unusual Fire & Explosion Hazards	Volume and pressure increases strongly when heated. Risk of container explosion in fire.
Hazardous Combustion Products	Acrid smoke/fumes. Oxides of: Carbon. Sulfur.
Protective Measures in Case of Fire	Self-contained breathing equipment and chemical resistant clothing recommended.

VII ACCIDENTAL RELEASE MEASURES

Personal Precautions	Minimize skin contact. Wear suitable eye protection.
Precautions to Protect the Environment	Keep product out of sewers and watercourses by diking or impounding. Advise authorities if product has entered or may enter sewers, watercourses or extensive land areas. Assure conformity with applicable government regulations.
Spill Clean-Up Procedures	Collect in closed container.

VIII HANDLING AND STORAGE

Handling Precautions	Keep away from heat, sparks and open flame. Eye wash station should be available at the work place.
Storage Precautions	Keep away from heat, sparks and open flame. Store separated from: Acids. Oxidizing materials.
Storage Criteria	Unspecified storage.

VIII EXPOSURE CONTROLS, PERSONAL PROTECTION

COMPONENT	STD	TWA	STEL	TWA	STEL
ANTIMONY DIALKYLDITHIOCARBAMATE	OSHA			0.5 mg/m3 as Sb	
	ACGIH			0.5 mg/m3 as Sb	

Protective Equipment	Gloves & goggles
Engineering Controls	Use engineering controls to reduce air contamination to permissible exposure level.
Ventilation	No specific ventilation requirements noted, but forced ventilation may still be required if air contamination exceeds acceptable level.
Respirators	No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.
Protective Gloves	Chemical resistant gloves required for prolonged or repeated contact. Use protective gloves made of: Neoprene, nitrile, polyethylene or PVC. or latex.
Eye Protection	Wear splash-proof eye goggles to prevent any possibility of eye contact.
Protective Clothing	Wear appropriate clothing to prevent repeated or prolonged skin contact.
Hygienic Work Practices	Wash at the end of each work shift and before eating, smoking and using the toilet.

IX PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical State	Grease
Color	Moly Grey
Odor	Mild (or faint)
Solubility Description	Insoluble in water
Boiling Point (°C, range)	N/D
Melt./Freez. Point (°C, interval)	N/D
Density	0.86 - 0.87°C
Vapor Density (air=1)	>5
Vapor Pressure	<0.01 mmHg °C
Evaporation Rate	<1 Reference
pH-Value, Diluted Solution	N/D Concentration %M

X STABILITY AND REACTIVITY

Stability	Normally stable.
Conditions to Avoid	Avoid contact with acids and oxidizing substances.
Hazardous Polymerization	Will not polymerize.
Hazardous Decomposition Products	Oxides of: Carbon. Sulfur.

XI TOXICOLOGICAL INFORMATION

No experimental toxicological data on the preparation as such is available.

XII ECOLOGICAL INFORMATION

No data on possible environmental effects have been found.

XIII DISPOSAL CONSIDERATIONS

Dispose of in accordance with Local Authority requirements.

XIV TRANSPORT INFORMATION

DOT Hazard Class	Non-Hazardous (No label required).
Sea Transport Notes	Not regulated per IMDG.
Air Transport Notes	Not regulated per IATA.

X REGULATORY INFORMATION

US FEDERAL REGULATIONS:

COMPONENT	SARA 302	CERCLA	SARA 313
1-DECENE, HOMOPOLYMER, HYDROGENATED (COMMON NAME: POLYALPHAOLEFINS)	NO	NO	NO
LITHIUM COMPLEX THICKENER	NO	NO	NO
FATTY ACIDS, C18-UNSATD., DIMERS, POLYMERS W/ 2-ETHYLHEXANOL & NEOPENTYL GLYCOL	NO	NO	NO
ZINC, BIS(DIPENTYLCARBAMODITHIOATO-S,S")-, (T-4) -	NO	***	N982 - Zn
ANTIMONY DIALKYLDITHIOCARBAMATE	NO	***	N010 - Sb

**** Indicates that no RQ is assigned to this generic or broad class, although the class is a CERCLA hazardous substance. See 50 Federal Register 13456 (April 4, 1985). Values in Section 313 column represent Category Codes for reporting under Section 313.*

XI OTHER INFORMATION

NFPA-HMIS: HEALTH	1	Irritation, minor residual injury
NFPA-HMIS: FLAMMABILITY	1	Burns only if pre-heated
NFPA-HMIS: REACTIVITY	0	Normally Stable
HMIS PERSONAL PROTECTION	B	Safety Eyewear and Gloves

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