LUBRI-LOY®
PREMIUM LUBRICANTS & GREASES

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MATERIAL SAFETY DATA SHEET

GOS

LUBRI-LOY INDUSTRIAL EP SYNTHETIC GEAR OIL

ISOS 100, 150, 220, 320, 460, 680

LUBRI-LOY CATALOG #: GOS-100, GOS-100-640, GOS-150, GOS-150-640, GOS-220, GOS-220-640, GOS-320, GOS-320-640, GOS-460, GOS-460-640, GOS-680, GOS-680-640

DATE ISSUED: 8/27/09 **REPLACES ISSUE:** 1/26/2007

I PRODUCT IDENTIFICATION AND EMERGENCY INFORMATION

Product Name	Lubri-Loy Industrial EP Synthetic Gear Oil, ISOs 100, 150, 220, 320, 460, 680
Lubri-Loy Catalog #'s	GOS-100, GOS-100-640, GOS-150, GOS-150-640, GOS-220, GOS-220-640, GOS-320, GOS-320-640, GOS-460, GOS-460-640, GOS-680, GOS-680-640
MSDS Number	67555E - 5
Date Issued	8/27/09
Replaces Issue	1/26/2007
24-Hr. Emergency Phone	CHEMTREC (800) 424-9300

II COMPONENTS AND HAZARD INFORMATION

CAS#	CONCENTRATION	INGREDIENTS
		Synthetic Gear Oil
Mixture	85 - 94.99 %volume	Synthetic hydrocarbon base oils
Proprietary	5 - 14.99 %volume	Polymer additives

PLEASE NOTE THAT THE CHEMICAL IDENTITY Of SOME OR ALL OF THE ABOVE HAZARDOUS INGREDIENTS IS CONFIDENTIAL INFORMATION AND MAY BE WITHHELD AS PERMITTED BY 29CFR 1910.1200 AND VARIOUS STATE RIGHT TO KNOW LAWS.

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS):

HEALTH	FLAMMABILITY	REACTIVITY
0	1	0

III HEALTH AND HAZARD INFORMATION

EMERGENCY OVERVIEW

Appearance & Odor	Pale yellow liquid. Mild odor.
Health Hazards	No known immediate health hazards.
Physical Hazards	No known physical hazards.

INHALATION:

Inhalation of vapors (generated at high temperatures only) or oil mist may cause mild irritation of the nose, throat, and respiratory tract.

EYE IRRITATION:

Lubricating oils are generally considered no more than minimally irritating to the eyes.

SKIN CONTACT:

Lubricating oils are generally considered no more than minimally irritating to the skin. Prolonged and repeated contact may result in defatting and drying of the skin that may cause various skin disorders such as dermatitis, folliculitis or oil acne.

INGESTION:

Lubricating oils are generally no more than slightly toxic if swallowed.

SIGNS AND SYMPTOMS:

Irritation as noted above.

AGGRAVATED MEDICAL CONDITIONS:

Pre-existing eye, skin and respiratory disorders may be aggravated by exposure to this product.

For additional health information, refer to section 11.

IV FIRST AID PROCEDURES

Inhalation	Remove victim to fresh air and provide oxygen if breathing is difficult. Get medical attention.
Skin	Remove contaminated clothing and shoes and wipe excess from skin. Flush skin with water, then wash with soap and water. If irritation occurs, get medical attention. Do not reuse clothing until cleaned.
Eye	Flush with water. If irritation occurs, get medical attention.
Ingestion	Do not induce vomiting. In general, no treatment is necessary unless large quantities of product are ingested. However, get medical attention.
Note to Physician	In general, emesis induction is unnecessary in high viscosity, low volatility products such as oils and greases.

V FIRE AND EXPLOSION HAZARD INFORMATION

Flash Point [Method]	500 ºF -510 ºF/260 ºC -265.56 ºC [Cleveland Open Cup]
Extinguishing Media	Material will float and can be re-ignited on surface of water. Use water fog, 'alcohol foam', dry chemical or carbon dioxide (CO2) to extinguish flames. Do not use a direct stream of water.
Fire Fighting Instructions	Material will not burn unless preheated. Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves and rubber boots), including a positive pressure, NIOSH approved, self-contained breathing apparatus.

VI ACCIDENTAL RELEASE MEASURES

Protective Measures	May burn although not readily ignitable. Wear appropriate personal protective equipment when cleaning up spills. Refer to Section 8.
Spill Management	FOR LARGE SPILLS: Remove with vacuum truck or pump to storage/salvage vessels. FOR SMALL SPILLS: Soak up residue with an absorbent such as clay, sand or other suitable material. Place in non-leaking container and seal tightly for proper disposal.
Reporting	CERCLA: Product is covered by EPA's Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) petroleum exclusion. Releases to air, land, or water are not reportable under CERCLA (Superfund). CWA: This product is an oil as defined under Section 311 of EPA's Clean Water Act (CWA). Spills into or leading to surface waters that cause a sheen must be reported to the National Response Center, 1-800-424-8802.

VII HANDLING AND STORAGE

Precautionary Measures	Wash with soap and water before eating, drinking, smoking, applying cosmetics, or using toilet. Launder contaminated clothing before reuse. Properly dispose of contaminated leather articles such as shoes or belts that cannot be decontaminated. Avoid heat, open flames, including pilot lights, and strong oxidizing agents. Use explosion-proof ventilation to prevent vapor accumulation. Ground all handling equipment to prevent sparking.

Storage	Store in a cool, dry place with adequate ventilation. Keep away from open flames and high temperatures.
Container Warnings	Keep containers closed when not in use. Containers, even those that have been emptied, can contain explosive vapors. Do not cut, drill, grind, weld or perform similar operations on or near containers.

VIII PROTECTION AND PRECAUTIONS

Polyalphaolefin ACGIH TLV TWA: 5 mg/m3 STEL: 10 mg/m3
Polyalphaolefin OSHA PEL TWA: 5 mg/m3

EXPOSURE CONTROLS

Adequate ventilation to control airborne concentrations below the exposure guidelines/limits.

PERSONAL PROTECTION

Personal protective equipment (PPE) selections vary based on potential exposure conditions such as handling practices, concentration and ventilation.

Information on the selection of eye, skin and respiratory protection for use with this material is provided below.

Eye Protection	Safety glasses with side shields
Skin Protection	Use protective clothing which is chemically resistant to this material. Selection of protective clothing depends on potential exposure conditions and may include gloves, boots, suits and other items. The selection(s) should take into account such factors as job task, type of exposure and durability requirements. Published literature, test data and/or glove and clothing manufacturers indicate the best protection is provided by:Neoprene, or Nitrile Rubber
Respiratory Protection	If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, an approved respirator must be worn. Respirator selection, use and maintenance should be in accordance with the requirements of the OSHA Respiratory Protection Standard, 29 CFR 1910.134. Types of respirator(s) to be considered in the selection process include: For Mist: Air Purifying, R or P style NIOSH approved respirator. For Vapors: Air Purifying, R or P style prefilter & organic cartridge, NIOSH approved respirator. Self-contained breathing apparatus for use in environments with unknown concentrations or emergency situations.

IX PHYSICAL AND CHEMICAL PROPERTIES

Appearance & Odor	Pale yellow liquid. Mild odor.
Substance Chemical Family	Lubricants
Appearance	Pale yellow liquid.
Flash Point	500 ºF - 510 ºF [Cleveland Open Cup]
Pour Point	-40 ºF - -50 ºF
Specific Gravity	0.85 - 0.87
Viscosity	> 30 cSt @ 40 ºC

X STABILITY AND REACTIVITY

Stability	Material is stable under normal conditions.
Conditions to Avoid	Avoid heat and open flames.
Materials to Avoid	Avoid contact with strong oxidizing agents.

Hazardous Decomposition Products	Thermal decomposition products are highly dependent on combustion conditions. A complex mixture of airborne solids, liquids and gases will evolve when this material undergoes pyrolysis or combustion. Carbon Monoxide, Carbon Dioxide and other unidentified organic compounds may be formed upon combustion.

XI TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Dermal LD50 >2 g/kg(Rabbit) OSHA: Non-Toxic Based on components(s)
Oral LD50 >2 g/kg(Rat) OSHA: Non-Toxic Based on components(s)

CARCINOGENICITY CLASSIFICATION

Synthetic Gear Oil
NTP: No IARC: Not Reviewed by IARC ACGIH: No OSHA: No

XII ECOLOGICAL INFORMATION

ENVIRONMENTAL IMPACT SUMMARY:

There is no ecological data available for this product. However, this product is an oil. It is persistent and does not readily biodegrade. However, it does not bioaccumulate.

XIII DISPOSAL CONSIDERATION

RCRA INFORMATION:

Under RCRA, it is the responsibility of the user of the material to determine, at the time of the disposal, whether the material meets RCRA criteria for hazardous waste. This is because material uses, transformations, mixtures, processes, etc. may affect the classification. Refer to the latest EPA, state and local regulations regarding proper disposal.

XIV TRANSPORT INFORMATION

US DEPARTMENT OF TRANSPORTATION CLASSIFICATION

This material is not subject to DOT regulations under 49 CFR Parts 171-180.
Oil: This product is an oil under 49CFR (DOT) Part 130. If shipped by rail or highway in a tank with a capacity of 3500 gallons or more, it is subject to these requirements. Mixtures or solutions containing 10% or more of this product may also be subject to this rule.

INTERNATIONAL AIR TRANSPORT ASSOCIATION

Not regulated under IATA rules.

INTERNATIONAL MARITIME ORGANIZATION CLASSIFICATION

Not regulated under International Maritime Organization rules.

XV REGULATORY INFORMATION

FEDERAL REGULATORY STATUS

OSHA Classification	Product is hazardous according to the OSHA Hazard Communication Standard, 29 CFR 1910.1200, because it carries the occupational exposure limit for mineral oil mist.
Ozone Depleting Substances (40 CFR 82 Clean Air Act)	This material does not contain nor was it directly manufactured with any Class I or Class II ozone depleting substances.
Superfund Amendment & Reauthorization Act (SARA) Title III	There are no components in this product on the SARA 302 list.
SARA Hazard Categories (311/312)	Immediate Health:NO Delayed Health:NO Fire:NO Pressure:NO Reactivity:NO
SARA Toxic Release Inventory (TRI) (313)	There are no components in this product on the SARA 313 list.
Toxic Substances Control Act (TSCA) Status	All component(s) of this material is(are) listed on the EPA/TSCA Inventory of Chemical Substances.
Other Chemical Inventories	Component(s) of this material is (are) listed on the Australian AICS, Canadian DSL, European EINECS,

STATE REGULATION

This material is not regulated by California Prop 65, New Jersey Right-to-Know Chemical List or Pennsylvania Right-To-Know Chemical List. However for details on your regulation requirements you should contact the appropriate agency in your state.

XVI OTHER INFORMATION

Although the information and recommendations set forth herein (hereafter referred to as information) are presented in good faith and believed to be accurate and factual as of the date hereof, Lubri-Loy, Inc. makes no representation as to the completeness or accuracy thereof. Information is supplied upon the condition that the person receiving the same will make their own determination as to its safety and suitability for their purposes prior to use. In no event will Lubri-Loy, Inc. be responsible for damages of any natures whatsoever resulting from the use or reliance upon information. No representation or warranty, either expressed or implied, of merchantability or fitness for a particular purpose is made with respect to information of the product to which the information refers.

Ingredients are listed in Section 2 if they present a physical or health hazard and are present at or above 1.0% in the mixture. If a ingredient is identified as a CARCINOGEN by NTP, IARC,ACGIH, or OSHA as of the date on the MSDS, it will be listed in Section 3 when present at or above 0.1% in the product. Negative statements concerning carcinogenicity are not reported. Other ingredients may be listed if deemed appropriate. Additional health information may be found in Section 3.