LUBRI-LOY®
PREMIUM LUBRICANTS & GREASES

THE LUBRI-LOY COMPANY
701 Market St, Ste 110 PMB 1025
Saint Louis, MO 63101 USA
Company (877) 582-7456
Deliveries (314) 887-5889
LUBRILOY.COM

SAFETY DATA SHEET

Prepared to OSHA Hazard Communication Standard, 29 CFR 1910.1200 (2024) · GHS format

GOS

LUBRI-LOY INDUSTRIAL EP SYNTHETIC GEAR OIL

ISO 100, 150, 220, 320, 460, 680

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 · **SDS DATE:** 10/30/2026 · **VERSION:** 1.1 · **SUPERSEDES:** MSDS dated 8/27/2009 (No. 67555E-5; replaced 1/26/2007 issue)

1 IDENTIFICATION

Product identifier	Lubri-Loy Industrial EP Synthetic Gear Oil, ISO 100, 150, 220, 320, 460, 680
Other means of identification	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 · Synthetic extreme-pressure gear oil; Lubricant
Recommended use	Industrial enclosed gear lubricant.
Restrictions on use	None known. Use only as intended.
Supplier / responsible party	The Lubri-Loy Company, 701 Market St, Ste 110 PMB 1025, Saint Louis, MO 63101, USA
Company telephone	(877) 582-7456 · lubriloy.com
Deliveries telephone	(314) 887-5889
Emergency telephone (24 hr)	(877) 582-7456 (The Lubri-Loy Company, 24 hours)

2 HAZARD(S) IDENTIFICATION

This product is not classified as hazardous under the OSHA Hazard Communication Standard, 29 CFR 1910.1200 (2024). No hazard pictogram, signal word or hazard statement is required.

Hazards not otherwise classified (HNOC)	None known.
Other hazards	• High-pressure injection under the skin can cause serious injury even when no symptoms are apparent. • Material floats and can re-ignite on the surface of water. • Spills create a slipping hazard.

3 COMPOSITION / INFORMATION ON INGREDIENTS

Substance / mixture	Mixture

CHEMICAL NAME	CAS NUMBER	CONCENTRATION (% WT)
Synthetic hydrocarbon base oils (polyalphaolefin)	Mixture	85 – 94.99
Polymer additives *	Proprietary	5 – 14.99

* The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

Concentrations are % by volume as stated in the original data sheet.

No ingredient is classified as hazardous under OSHA HCS 2024 based on the information available.

4 FIRST-AID MEASURES

Inhalation	Move to fresh air. Give oxygen if breathing is difficult. Get medical attention.
Skin contact	Remove contaminated clothing and shoes and wipe excess from skin. Flush skin with water, then wash with soap and water. Get medical attention if irritation occurs. Do not reuse clothing until cleaned.
Eye contact	Flush with water. Get medical attention if irritation occurs.
Ingestion	Do not induce vomiting. In general no treatment is needed unless large quantities are swallowed; get medical attention.
Most important symptoms and effects, acute and delayed	Mild irritation of eyes, skin, nose, throat and respiratory tract from oil mist or vapors of heated product. Prolonged or repeated skin contact may cause defatting, drying, dermatitis, folliculitis or oil acne.
Immediate medical attention and special treatment	Treat symptomatically. Emesis induction is generally unnecessary for high-viscosity, low-volatility products such as oils. Pre-existing eye, skin and respiratory disorders may be aggravated. High-pressure injection injuries require immediate surgical evaluation.

5 FIRE-FIGHTING MEASURES

Suitable extinguishing media	Water fog, alcohol-resistant foam, dry chemical or carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use a direct stream of water; material floats and can re-ignite on the surface of water.
Specific hazards arising from the chemical	Material will not burn unless preheated. Combustion produces a complex mixture of airborne solids, liquids and gases, including carbon monoxide, carbon dioxide and other unidentified organic compounds.
Protective equipment and precautions for firefighters	Do not enter a confined fire space without full bunker gear (helmet with face shield, bunker coat, gloves and rubber boots) and a positive-pressure, NIOSH-approved self-contained breathing apparatus.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	May burn although not readily ignitable. Wear appropriate personal protective equipment (see Section 8). Spills create a slipping hazard.
Environmental precautions	Prevent entry into sewers and waterways. This product is an oil under Section 311 of the Clean Water Act: spills into or leading to surface waters that cause a sheen must be reported to the National Response Center, 800-424-8802.
Methods and materials for containment and cleanup	Large spills: remove with a vacuum truck or pump to storage/salvage vessels. Small spills: soak up with an absorbent such as clay or sand, place in a non-leaking container and seal tightly for proper disposal.

7 HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with eyes and prolonged skin contact. Wash with soap and water before eating, drinking, smoking, applying cosmetics or using the toilet. Launder contaminated clothing before reuse; discard contaminated leather articles such as shoes or belts that cannot be decontaminated. Keep away from heat and open flames, including pilot lights. Empty containers can retain residue: do not cut, drill, grind or weld on or near containers.
Conditions for safe storage, including incompatibilities	Store in a cool, dry place with adequate ventilation, away from open flames, high temperatures and strong oxidizing agents. Keep containers closed when not in use.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

COMPONENT	OSHA PEL	ACGIH TLV	OTHER
Oil mist (source applies mineral oil mist limits to the polyalphaolefin base oil)	5 mg/m^3 TWA (mineral oil mist)	5 mg/m^3 TWA (inhalable fraction; mineral oil, pure, highly and severely refined)	—

No component has its own OSHA PEL or ACGIH TLV; oil mist limits are given as guidance where mist is generated. The former ACGIH 10 mg/m^3 STEL for oil mist has been withdrawn.

Engineering controls	Use adequate ventilation to keep airborne mist concentrations below exposure guidelines.
Eye / face protection	Safety glasses with side shields.
Skin / hand protection	Chemical-resistant gloves (neoprene or nitrile rubber). Select other protective clothing (boots, apron) based on the task and exposure.
Respiratory protection	Not normally required with adequate ventilation. If mist concentrations may exceed exposure limits, use a NIOSH-approved air-purifying respirator with an R or P particulate filter (add an organic vapor cartridge for vapors from heated product). Use a self-contained breathing apparatus for emergencies or unknown concentrations. Follow 29 CFR 1910.134.
Hygiene measures	Wash with soap and water after handling and before eating, drinking or smoking. Launder contaminated clothing before reuse.

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid
Color	Pale yellow
Odor	Mild
Melting point / freezing point	No data available
Boiling point or initial boiling point and boiling range	No data available
Flammability	Not flammable; will burn only if preheated
Lower and upper explosion / flammability limit	No data available
Flash point	500 – 510 °F (260 – 265.6 °C), Cleveland open cup
Auto-ignition temperature	No data available
Decomposition temperature	No data available
pH	Not applicable
Kinematic viscosity	> 30 mm^2/s (cSt) at 40 °C (ISO 100 – 680 grades)
Solubility	No data available
Partition coefficient n-octanol/water (log value)	No data available
Vapor pressure	No data available
Density and/or relative density	Specific gravity 0.85 – 0.87
Relative vapor density	No data available
Particle characteristics	Not applicable (not a solid)
Pour point	-40 to -50 °F (-40 to -45.6 °C)
Chemical family	Synthetic lubricants

10 STABILITY AND REACTIVITY

Reactivity	Not reactive under normal conditions.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None known.
Conditions to avoid	Heat and open flames.
Incompatible materials	Strong oxidizing agents.

Hazardous decomposition products	Thermal decomposition products depend on conditions; pyrolysis or combustion releases a complex mixture of airborne solids, liquids and gases including carbon monoxide, carbon dioxide and other unidentified organic compounds.

11 TOXICOLOGICAL INFORMATION

Likely routes of exposure	Skin contact, eye contact, inhalation of mist or heated vapor, ingestion.
Symptoms related to the physical, chemical and toxicological characteristics	Mild irritation of the nose, throat and respiratory tract from mist or heated vapor; minimal eye and skin irritation.
Acute effects	Lubricating oils are generally no more than minimally irritating to eyes and skin and no more than slightly toxic if swallowed.
Delayed, immediate and chronic effects	Prolonged and repeated skin contact may cause defatting and drying of the skin, leading to dermatitis, folliculitis or oil acne.
Numerical measures of toxicity	Oral LD50 > 2 g/kg (rat); dermal LD50 > 2 g/kg (rabbit) — based on components. Not classified for acute toxicity.
Carcinogenicity (NTP, IARC, OSHA)	Not listed by NTP, IARC, ACGIH or OSHA.
Other information	Pre-existing eye, skin and respiratory disorders may be aggravated by exposure.

12 ECOLOGICAL INFORMATION

Ecotoxicity	No ecological data available for this product.
Persistence and degradability	Persistent; not readily biodegradable.
Bioaccumulative potential	Not expected to bioaccumulate.
Mobility in soil	No data available. Product floats on water.
Other adverse effects	Prevent release to the environment.

13 DISPOSAL CONSIDERATIONS

Disposal methods	The user must determine at the time of disposal whether the material meets RCRA criteria for hazardous waste, since use, contamination and mixing may affect classification. Recycle used oil where possible. Follow federal, state and local regulations.
Contaminated packaging	Empty containers retain residue; dispose of or recondition in accordance with regulations.

14 TRANSPORT INFORMATION

DOT (49 CFR) UN number	Not applicable
UN proper shipping name	Not regulated as a hazardous material by DOT.
Transport hazard class	Not applicable
Packing group	Not applicable
DOT notes	This product is an oil under 49 CFR Part 130; Part 130 applies to rail or highway shipments in tanks of 3,500 gallons or more.
Other modes (IMDG / IATA)	IATA: not regulated. IMO/IMDG: not regulated.
Environmental hazards	Not a marine pollutant
Special precautions for user	None known.

15 REGULATORY INFORMATION

OSHA HCS status	Not hazardous under OSHA HCS 29 CFR 1910.1200 (2024).
SARA 311/312 hazard categories	None

SARA 313 (TRI)	None known.
CERCLA reportable quantity	None known. Product is covered by the CERCLA petroleum exclusion; releases are not reportable under CERCLA.
TSCA	All components are listed on the TSCA Inventory or are exempt.
State regulations	Not regulated by California Proposition 65, the New Jersey Right-to-Know list or the Pennsylvania Right-to-Know list (per source).
Other	• SARA 302: no components listed. • Clean Air Act: contains no Class I or Class II ozone-depleting substances. • Clean Water Act: oil under Section 311; sheen-producing discharges are reportable to the National Response Center.

16 OTHER INFORMATION

HAZARD RATINGS (SUPPLEMENTAL)

HMIS®			
Health	**Flammability**	**Physical**	**PPE**
0	1	0	B

NFPA 704			
Health	**Flammability**	**Instability**	**Special**
0	1	0	—

HMIS and NFPA ratings are supplemental and are not part of the GHS classification.

Date of preparation	10/30/2026
Version	1.1
Supersedes	MSDS dated 8/27/2009 (No. 67555E-5; replaced 1/26/2007 issue)
Prepared by	The Lubri-Loy Company, Saint Louis, MO · Company (877) 582-7456 · Deliveries (314) 887-5889
Revision notes	• Converted from pre-2012 MSDS format to 16-section GHS SDS (OSHA HCS 2024). • Old sheet called the product hazardous solely because it carries the oil-mist exposure limit; reclassified as not classified under HCS 2024 criteria. • Withdrawn ACGIH oil-mist STEL removed. • Completed with documented assumptions; see Basis of classification and assumptions. • Version 1.1 (10/30/2026): company address and telephone numbers updated; no change to hazard information.

BASIS OF CLASSIFICATION AND ASSUMPTIONS

This Safety Data Sheet was prepared from the product's formulation records and prior data sheet, supplemented by published data for the identified components. Where specific product data were not available, the following assumptions were applied:

- The base oil is a polyalphaolefin synthetic hydrocarbon (85 – 95%), which is not classified and is not a petroleum carcinogen concern; the mineral oil mist exposure limit is applied to it by analogy, as in the original data sheet.
- The 'polymer additives' (5 – 15%) disclosed in the original data sheet are the complete additive package, including the sulfur-phosphorus extreme-pressure components of an EP gear oil; it is a standard non-classified package present below GHS classification cut-offs.
- Flash point 500 – 510 °F (Cleveland open cup) and viscosity above 30 mm^2/s at 40 °C for every grade mean the product is neither a flammable/combustible liquid nor an aspiration hazard.
- All components are listed on the TSCA Inventory.
- The original data sheet's statement that the product is not regulated under California Proposition 65 or the New Jersey and Pennsylvania Right-to-Know lists is accepted.
- HMIS and NFPA ratings were set to match the GHS classification (health 0 or 1, flammability 1 for a combustible oil with flash point above 200 °F, physical/instability 0, HMIS PPE B: safety glasses and gloves).

ABBREVIATIONS

ACGIH – American Conference of Governmental Industrial Hygienists; CAS – Chemical Abstracts Service; CERCLA – Comprehensive Environmental Response, Compensation, and Liability Act; DOT – U.S. Department of Transportation; GHS – Globally Harmonized System; HCS – Hazard Communication Standard; IARC – International Agency for Research on Cancer; NTP – National Toxicology Program; OSHA – Occupational Safety and Health Administration; PEL – Permissible Exposure Limit; RQ – Reportable Quantity; SARA – Superfund Amendments and Reauthorization Act; STEL – Short-Term Exposure Limit; TLV – Threshold Limit Value; TSCA – Toxic Substances Control Act; TWA – Time-Weighted Average.

DISCLAIMER

The information in this Safety Data Sheet is believed to be accurate as of the date of preparation and is provided in good faith. It relates only to the specific product designated and may not be valid when the product is used in combination with other materials or in any process. The Lubri-Loy Company makes no warranty, express or implied, regarding the accuracy or completeness of this information or the results obtained from its use, and assumes no liability for loss, damage or expense

arising from the handling, storage, use or disposal of the product. Users are responsible for determining the suitability of the product for their purposes and for complying with all applicable laws and regulations.

END OF SAFETY DATA SHEET