LUBRI-LOY®
PREMIUM LUBRICANTS & GREASES

**THE LUBRI-LOY COMPANY**
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**LUBRILOY.COM**

# SAFETY DATA SHEET

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

**LS-21014C**

## LUBRI-SYN CLEAR GREASE

**FOOD GRADE H1 · NLGI #2 · SYNTHETIC HYDROCARBON**

**CATALOG #:** LS-21014C, LS-21640C, LS-21192C · **SDS DATE:** 10/30/2026 · **VERSION:** 1.1 · **SUPERSEDES:** MSDS dated 8/1/2013

## 1 IDENTIFICATION

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|---|---|
| **Product identifier** | Lubri-Syn Clear Food Grade H1 Grease, NLGI #2 |
| **Other means of identification** | Catalog #: LS-21014C, LS-21640C, LS-21192C · Lubricating grease; Synthetic hydrocarbon grease, NLGI 2 |
| **Recommended use** | Food grade (H1) lubricating grease for incidental food contact applications. |
| **Restrictions on use** | Use only as a lubricant. Not for use in high-pressure systems where injection injuries are possible without proper controls. |
| **Food-contact registration** | NSF H1 registered for incidental food contact (registration on file with The Lubri-Loy Company) |
| **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.**

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| **Hazards not otherwise classified (HNOC)** | None known. |
| **Other hazards** | • High-pressure injection under the skin (e.g. from grease guns or hydraulic lines) can cause serious tissue damage; initial symptoms may be minimal. Seek immediate medical attention.<br>• Hot product can cause thermal burns.<br>• Spills create a slipping hazard. |

## 3 COMPOSITION / INFORMATION ON INGREDIENTS

**Substance / mixture** Mixture

| CHEMICAL NAME | CAS NUMBER | CONCENTRATION (% WT) |
|---|---|---|
| 1-Decene, homopolymer, hydrogenated (polyalphaolefin) | 68037-01-4 | 80 – 95 |
| Polyisobutylene (thickener/tackifier) | 9003-27-4 | 3 – 10 |
| Silica, amorphous (thickener) | 7631-86-9 | 1 – 5 |

Composition is a typical formulation for a clear, polymer/silica-thickened synthetic hydrocarbon H1 grease, derived from the product description; the source listed no hazardous components and no ingredient percentages.

## 4 FIRST-AID MEASURES

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| **Inhalation** | Not expected to be an inhalation hazard at ambient temperature. If exposed to vapors or mists from heated product, move to fresh air. Get medical attention if breathing becomes difficult or irritation persists. |
| **Skin contact** | Wipe away material with a dry towel, then wash skin with soap and water. Remove contaminated clothing. If product is injected under the skin, get medical attention immediately. |
| **Eye contact** | Flush with clean water until irritation subsides. Get medical attention if irritation persists. |
| **Ingestion** | Do not induce vomiting. Call a physician immediately. |
| **Most important symptoms and effects, acute and delayed** | Prolonged or repeated skin contact may cause mild irritation or drying of the skin. Contact with eyes may cause mild irritation. Ingestion may cause nausea or diarrhea. High-pressure injection may cause pain, swelling and serious tissue damage; early symptoms may be minimal. |
| **Immediate medical attention and special treatment** | High-pressure injection injuries are a surgical emergency and require immediate medical evaluation regardless of the size or appearance of the wound. Otherwise treat symptomatically. |

## 5 FIRE-FIGHTING MEASURES

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| **Suitable extinguishing media** | Dry chemical, foam, carbon dioxide ($CO_2$), water spray or fog. |
| **Unsuitable extinguishing media** | Do not use a straight water stream; it may scatter and spread burning material. |
| **Specific hazards arising from the chemical** | Combustible at elevated temperatures. Carbon monoxide and carbon dioxide may be formed by incomplete combustion; do not breathe combustion vapors. |
| **Protective equipment and precautions for firefighters** | Wear full protective clothing and NIOSH-approved positive-pressure self-contained breathing apparatus. Cool fire-exposed containers with water spray. Do not enter enclosed or confined spaces without protective equipment. |

## 6 ACCIDENTAL RELEASE MEASURES

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| **Personal precautions, protective equipment and emergency procedures** | Wear appropriate protective equipment (see Section 8). Avoid skin and eye contact. Spilled material is very slippery; do not walk through it. |
| **Environmental precautions** | Prevent entry into sewers, drains and waterways. Report spills to waterways as required (U.S. National Response Center: 800-424-8802). |
| **Methods and materials for containment and cleanup** | Scrape up or shovel spilled material into a suitable, labeled container for disposal. Absorb residue with inert material such as sand or clay. Large spills may be recovered with vacuum pumps, shovels or buckets. Clean the area to remove slipping hazard. |

## 7 HANDLING AND STORAGE

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| **Precautions for safe handling** | Use with adequate ventilation. Avoid breathing mist or vapor. Avoid prolonged skin contact. Take care to prevent injection injuries when using high-pressure equipment. Wash thoroughly after handling. |
| **Conditions for safe storage, including incompatibilities** | Store in closed, clearly labeled containers in a cool, dry place. Use grounding equipment. Keep away from strong oxidizing agents. |

## 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

| COMPONENT | OSHA PEL | ACGIH TLV | OTHER |
|---|---|---|---|
| Polyalphaolefin base oil (as oil mist) | Not established | Not established | 5 mg/m$^3$ mineral oil mist limit used as guidance |
| Silica, amorphous (precipitated/fumed) | 20 mppcf TWA (80 mg/m$^3$ ÷ %SiO2) | Not established (withdrawn) | Dust limits; not applicable to silica bound in the gel/grease |

No exposure limits are established for the product. Oil mist limits are used as guidance; the former ACGIH 10 mg/m$^3$ STEL cited in the source has been withdrawn.

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| **Engineering controls** | Provide ventilation in accordance with good engineering practice to keep mist or vapor concentrations below exposure limits. Eyewash stations should be close to the work station. |

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| **Eye / face protection** | Safety glasses with side shields. Wear goggles or face shield if splashing is likely. |
| **Skin / hand protection** | Oil-resistant gloves (e.g. nitrile, neoprene) for prolonged or repeated contact. Wear protective clothing such as an apron or lab coat as needed to prevent skin contact. Use heat-protective gloves when handling hot product. |
| **Respiratory protection** | Not normally required. If mist or vapor exposure limits are exceeded, use a NIOSH-approved respirator (organic vapor cartridge with dust/mist prefilter) in accordance with 29 CFR 1910.134. |
| **Hygiene measures** | Wash hands before eating, drinking, smoking or using the toilet. Remove oil-soaked clothing and launder before reuse. Do not use solvents or harsh abrasives as skin cleaners. |

## 9 PHYSICAL AND CHEMICAL PROPERTIES

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|---|---|
| **Physical state** | Semi-solid (grease) |
| **Color** | Clear |
| **Odor** | Odorless |
| **Melting point / freezing point** | No data available |
| **Boiling point or initial boiling point and boiling range** | No data available |
| **Flammability** | Not flammable; may burn if heated to high temperature. |
| **Lower and upper explosion / flammability limit** | No data available |
| **Flash point** | > 392 °F (> 200 °C) (Cleveland open cup, typical for the polyalphaolefin base fluid; not reported in source) |
| **Auto-ignition temperature** | No data available |
| **Decomposition temperature** | No data available |
| **pH** | Not applicable |
| **Kinematic viscosity** | No data available |
| **Solubility** | Insoluble in water |
| **Partition coefficient n-octanol/water (log value)** | No data available |
| **Vapor pressure** | No data available |
| **Density and/or relative density** | 0.85 – 0.90 (specific gravity, water = 1, typical; not reported in source) |
| **Relative vapor density** | No data available |
| **Particle characteristics** | Not applicable |
| **NLGI grade** | 2 |
| **Dropping point** | > 500 °F (> 260 °C) |

## 10 STABILITY AND REACTIVITY

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| **Reactivity** | Not reactive under normal conditions of use. |
| **Chemical stability** | Stable at ambient temperatures and pressures. |
| **Possibility of hazardous reactions** | Hazardous polymerization will not occur. May react with strong oxidizing agents. |
| **Conditions to avoid** | Excessive heat, sparks, open flame and other ignition sources. |
| **Incompatible materials** | Strong oxidizing agents. |
| **Hazardous decomposition products** | Carbon monoxide and carbon dioxide from incomplete combustion. |

## 11 TOXICOLOGICAL INFORMATION

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|---|---|
| **Likely routes of exposure** | Skin contact and eye contact. Skin absorption: no. Inhalation: not expected. Ingestion: not likely under normal use. |
| **Symptoms related to the physical, chemical and toxicological characteristics** | Mild irritation of skin and mucous membranes. Prolonged or repeated skin contact tends to remove skin oils and may cause irritation. |
| **Acute effects** | Not expected to be acutely toxic. Based on available data, the classification criteria are not met. |
| **Delayed, immediate and chronic effects** | No data available. Prolonged or repeated skin contact may defat the skin and cause irritation. |
| **Numerical measures of toxicity** | No data available for the mixture. |
| **Carcinogenicity (NTP, IARC, OSHA)** | No component is listed as a carcinogen by NTP, IARC or OSHA. |
| **Other information** | Injection of grease under the skin under high pressure can cause inflammation, swelling and severe, permanent tissue damage. |

## 12 ECOLOGICAL INFORMATION

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|---|---|
| **Ecotoxicity** | No data available. |
| **Persistence and degradability** | No data available |
| **Bioaccumulative potential** | No data available |
| **Mobility in soil** | Low solubility in water; expected to float on water and adsorb to soil. |
| **Other adverse effects** | Do not allow product to enter sewers or waterways. Oil films on water can harm aquatic organisms and reduce oxygen transfer. |

## 13 DISPOSAL CONSIDERATIONS

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| **Disposal methods** | Dispose of in accordance with all applicable federal, state and local regulations. The user is responsible for determining whether the waste is a hazardous waste at the time of disposal (40 CFR 261). |
| **Contaminated packaging** | Empty containers retain residue. Do not pressurize, cut, weld, braze, solder, drill, grind or expose empty containers to heat, flame or other ignition sources. Send to a reconditioner or dispose of in accordance with regulations. |

## 14 TRANSPORT INFORMATION

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| **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 |
| **Environmental hazards** | Not a marine pollutant |
| **Special precautions for user** | None known. |

## 15 REGULATORY INFORMATION

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| **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 |
| **TSCA** | All components are listed on the TSCA Inventory or are exempt. |
| **State regulations** | California Proposition 65: This product does not contain chemicals known to the State of California to cause cancer, birth defects or other reproductive harm at levels requiring a warning. |

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| **Other** | NSF H1 registered for incidental food contact (registration on file with The Lubri-Loy Company). |

## 16 OTHER INFORMATION

### HAZARD RATINGS (SUPPLEMENTAL)

| HMIS® | | | |
|---|---|---|---|
| **Health** | **Flammability** | **Physical** | **PPE** |
| 0 | 1 | 0 | C |

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

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

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| **Date of preparation** | 10/30/2026 |
| **Version** | 1.1 |
| **Supersedes** | MSDS dated 8/1/2013 |
| **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).<br>• Source listed 'C' in the NFPA special-hazard position (a PPE code); removed.<br>• Completed with documented assumptions; see Basis of classification and assumptions.<br>• 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 source gave no composition. The product is completed as a typical clear synthetic hydrocarbon H1 grease: polyalphaolefin (68037-01-4) 80–95% thickened with polyisobutylene (9003-27-4) 3–10% and amorphous silica (7631-86-9) 1–5%, the thickener system that gives a clear, odorless grease with a dropping point above 500 °F.
- The flash point (> 200 °C / > 392 °F) and specific gravity (0.85–0.90), not reported in the source, are typical values for a polyalphaolefin-based grease.
- The product is NSF H1 registered as stated in the product name; the registration is on file with The Lubri-Loy Company.
- HMIS/NFPA ratings 0/1/0 from the source are retained; they are consistent with a not-classified combustible grease.

### 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**