



SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name: Super Lube® Open Gear and Wire Rope Lubricant**
- **Article number:** No other identifiers
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture** Lubricant
- **1.3 Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**
Synco Chemical Corporation
24 DaVinci Dr., P.O. Box 405
Bohemia, NY 11716
Telephone: 631-567-5300
Email: info@super-lube.com
- **1.4 Emergency telephone number:**
CHEMTREC
1-800-424-9300 (US/Canada)
+01 703-527-3887 (International)

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
The product is not classified as hazardous according to OSHA GHS regulations within the United States.
- **2.2 GHS label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is not classified as hazardous according to OSHA GHS regulations within the United States.
- **Signal word** Not Regulated
- **Hazard statements** Not Regulated
- **Precautionary statements**
General: Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.
- **Hazard description:**
- **WHMIS-symbols:** Not hazardous under WHMIS.
- **NFPA ratings (scale 0 - 4)**



Health = 0

Fire = 1

Reactivity = 0

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· **HMIS-ratings (scale 0 - 4)**

HEALTH	0	Health = 0
FIRE	1	Fire = 1
REACTIVITY	0	Reactivity = 0

· **HMIS Long Term Health Hazard Substances**

None of the ingredients are listed.

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**

· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:** None in reportable quantities.

· **Additional information:**

For the listed ingredients, the identity and exact percentages are being withheld as a trade secret.

SECTION 4: First aid measures

· **4.1 Description of first aid measures**

· **After inhalation:**

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

· **After skin contact:**

Hot material: immediately flush with cool water for at least 15 minutes. Get immediate medical attention. Cold material: clean exposed skin with waterless soap.

· **After eye contact:**

Hot material: flush eyes with plenty of water for at least 15 minutes. Seek medical assistance for mechanical removal of this material from the eye. The use of flush fluid other than water is not recommended. Cold material: flush eyes with plenty of water.

· **After swallowing:**

Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Wash out mouth with water. Call physician immediately.

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· 4.2 Most important symptoms and effects, both acute and delayed

- **Eye contact:** May cause slight transient irritation. Heated material can cause thermal burns.
- **Inhalation:** Exposure to aerosols or particulates from heated material may cause adverse lung effects if high concentrations are inhaled.
- **Skin contact:** No known significant effects or critical hazards. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Heated material can cause thermal burns.
- **Ingestion:** May cause gastrointestinal irritation and diarrhea.

· 4.3 Specific treatments

Medical personnel may leave the material in place to minimize physical damage to the skin. No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

· Suitable extinguishing agents:

Water spray (fog), foam, dry chemical, carbon dioxide

- **For safety reasons unsuitable extinguishing agents:** None known.

· 5.2 Special hazards arising from the substance or mixture:

Rapid depolymerization can occur in a fire and produce flammable vapors. May depolymerize at temperatures above 200°C with the production of extremely flammable butene monomers. Vapor may cause fire. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.

- **Hazardous thermal decomposition products:** Decomposition products may include carbon dioxide and carbon monoxide.

· 5.3 Advice for firefighters

Where open cell insulation has been contaminated with polybutene, spontaneous combustion may occur at temperatures as low as 138°C (280°F). Therefore, where open cell insulation has been used, the temperature of storage tanks and heat tracing must be kept well below 120°C (250°F) and any insulation contaminated with polybutene should be replaced immediately.

· Protective equipment:

Wear self-contained respiratory protective device.
Wear fully protective suit.

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SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures:**
Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or spray. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on personal protective equipment.
- **6.2 Environmental precautions:**
Avoid dispersal or spreading of spilled material, runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- **6.3 Methods and material for containment and cleaning up:**
Small spills: add absorbent and use a non-sparking or explosion-proof means to transfer to a sealable, appropriate container for disposal.
Large spills: dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in appropriate container for disposal. Avoid contact of spilled material and runoff with soil and surface waterways. Treat as an oil spill.
- **6.4 Reference to other sections**
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
Store in a segregated and approved area. A potentially flammable atmosphere may be generated if material is held hot for prolonged periods. For prolonged storage at temperatures of 60°C and above, keep in rust-free tanks and exclude oxygen by use of nitrogen blanket. Heating systems which generate localized hot spots should never be used. Suitable storage materials are: mild steel / carbon steel. Store and use away from heat, sparks, open flame or any other ignition source. Keep in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use.

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SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

Appropriate engineering controls: No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

· 8.2 Exposure controls

· **General protective and hygienic measures:**

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

· **Respiratory protection:**

If ventilation is inadequate, use respirator that will protect against organic vapor and dust / mist.

· **Protection of hands:**



Protective gloves

Wear gloves that cannot be penetrated by chemicals or oil. Nitrile rubber.

When handling hot material, wear heat resistant protective gloves, clothing and face shield that are able to withstand the temperature of the heated product.

The correct choice of protective gloves depends upon the chemicals being handled, the condition of work and use and of the gloves. Most gloves provide only a short time of protection before they must be discarded or replaced. Gloves should be chosen in consultation with the supplier / manufacturer with a full assessment of the working conditions.

· **Eye protection:**



Safety glasses

· **Body and other skin protection:**

Wear apron or coverall if there is a risk of exposure to splashes. When handling hot material wear heat-resistant protective gloves, clothing and face shield that are able to withstand the temperature of the molten product. Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

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SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

· **Form:** Liquid.

· **Colour:** Clear. Colorless.

· **Odour:** Characteristic.

· **Odour threshold:** Not available.

· **pH-value:** Not available.

· **Melting point/Melting range:** Not available.

· **Boiling point/Boiling range:** Not available.

· **Flash point:** Closed cup: 125 to 165°C (257 to 329°F) [Pensky-Martens.]
Open cup: >154°C (>309.2°F) [Cleveland.]

· **Evaporation rate** Not available.

· **Flammability (solid, gaseous):** Not available.

· **Lower and upper explosive (flammable) limits:** Not available.

· **Vapour pressure:** Not available.

· **Vapour density:** Not available.

· **Relative density** 0.879 to 0.906

· **Solubility:** Insoluble in the following materials: cold water and hot water.

· **Solubility in water:** Not available.

· **Partition coefficient (n-octanol / water):** Not available.

· **Auto/Self-ignition temperature:** Not available.

· **Decomposition temperature:** Not available.

· **Viscosity:** Kinematic (at °C: 100): 600 to 650
mm²/s (600 to 650 cSt)

· **Solvent content:**
VOC (California) <1%

· **9.2 Other information** No further relevant information available.

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SECTION 10: Stability and reactivity

- **10.1 Reactivity:** No specific test data related to reactivity is available for this product or ingredients.
- **10.2 Chemical stability:** Stable under recommended storage and handling conditions (see Section 7).
- **10.3 Possibility of hazardous reactions:** may depolymerize at temperatures above 200°C with the production of extremely flammable butene monomers.
- **10.4 Conditions to avoid:** Keep away from sources of ignition, heat, spark, flame. Avoid strong oxidizing conditions. Avoid extended exposure to temperatures above 60°C in presence of air.
- **10.5 Incompatible materials:** Strong oxidizing agents; acidic clays at > 100°C.
- **10.6 Hazardous decomposition products:** Under normal conditions or storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity:

LD/LC50 values that are relevant for classification:

Polybutene (Isobutylene / butene copolymer)

Oral	LD50	>34600 mg/kg (rat)
Dermal	LD50	>10250 mg/kg (rabbit)

Primary irritant effect:

- **on the skin:** No known significant effects or critical hazards. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Heated material can cause thermal burns.
- **on the eye:** May cause slight transient irritation. Heated material can cause thermal burns.
- **inhalation:** Exposure to aerosols or particulates from heated material may cause adverse lung effects if high concentrations are inhaled.
- **ingestion:** May cause gastrointestinal irritation and diarrhea.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):** None.
- **Likely routes of exposure:** Oral, dermal and inhalation.
- **Repeated Dose Toxicity:** No known significant effects or critical hazards.

SECTION 12: Ecological information

12.1 Toxicity

Polybutene (Isobutylene / butene copolymer)

EC50	>1000 mg/l (similar material)	Daphnia	48 hours
LC50	>1000 mg/l (similar material)	Fish	96 hours

- **12.2 Persistence and degradability:** unlikely to biodegrade at a significant rate.
- **12.3 Mobility in soil:** not likely to move rapidly with surface or groundwater flows because of its low water solubility and is not likely to volatilize rapidly into the air because of its low vapor pressure.

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- **12.4 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**

- **Recommendation**

Avoid contact of spilled material with soil and prevent runoff entering surface waterways. Consult an environmental professional to determine if local, regional or national regulations would classify spilled or contaminated materials as hazardous waste. Use only approved transporters, recyclers, treatment, storage or disposal facilities. Dispose of in accordance with all applicable local and national regulations. Empty containers may contain harmful, flammable/combustible or explosive residue or vapors. Do not cut, grind, drill, weld, reuse or dispose of containers unless adequate precautions are taken against these hazards. Labels should not be removed from containers until they have been cleaned.

SECTION 14: Transport information

- **UN-Number**

- **DOT, IMDG, IATA**

UN3257

- **UN proper shipping name**

- **DOT**

Elevated temperature liquid, n.o.s. (Polybutene)

- **IMDG**

ELEVATED TEMPERATURE LIQUID N.O.S. (Polybutene)

- **IATA**

Forbidden

- **Transport hazard class(es)**

- **DOT**



- **Class**

9

- **Label**

9

- **IMDG**



- **Class**

9

- **Label**

9

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· IATA	
· Class	-
· Label	-
· Packing group	III
· DOT, IMDG, IATA	This Material is not regulated for transport when shipped in non-bulk packages. When this material is shipped at temperatures <100°C (<212°F) this material is not regulated for transport.
· Environmental hazards:	None
· Special precautions for user	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· DOT	
· Quantity limitations	On passenger aircraft/rail: Forbidden On cargo aircraft only: Forbidden
· Special provisions:	IB1, T3, TP3, TP29

· IMDG	
· EMS Number:	F-A, _S-P_
· Special Provisions:	232, 274

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **United States (USA):** United States inventory (TSCA 8b): This material is listed or exempted.
- **Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs):** Not listed
- **Clean Air Act Section 602 Class | Substance:** Not listed
- **Clean Air Act Section 602 Class || Substances:** Not listed
- **DEA List I Chemicals (Precursor Chemicals):** Not listed
- **DEA List II Chemicals (Essential Chemicals):** Not listed

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- **SARA 302 / 304**

Composition/information on ingredients: No products found.

- **SARA 304 RQ:** Not applicable.

- **SARA 311 / 312**

Classification: Not applicable.

Composition/information on ingredients: No products found.

- **SARA 313:** Not applicable.

- **State Regulations:**

Massachusetts: This material is not listed.

New York: This material is not listed.

New Jersey: This material is not listed.

Pennsylvania: This material is not listed.

- **California Prop. 65:** None of the components are listed.

- **International Lists:**

Australia inventory (AICS): This material is listed or exempted.

China inventory (IECSC): This material is listed or exempted.

Japan inventory: This material is listed or exempted.

Korea inventory: This material is listed or exempted.

Malaysia inventory (EHS Register): This material is listed or exempted.

New Zealand Inventory of Chemicals (NZIoC) This material is listed or exempted.

Philippines inventory (PICCS): This material is listed or exempted.

Taiwan inventory (CSNN): This material is listed or exempted.

United States inventory (TSCA 8b): This material is listed or exempted.

Europe inventory: This material is listed or exempted.

Canada inventory: This material is listed or exempted.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Abbreviations and acronyms:**

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Good

LogPow = Logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.

("Marpol" = marine pollution)

UN = United Nations

HCS (U.S.A) = Hazard Communication Standard International transport regulations.

- **Sources**

SDS Prepared by:

Environmental Protection Department