

# SAFETY DATA SHEET

## 1. Identification of the hazardous chemical and of the supplier

**Product identifier:** RENOLIT SYN 940 OEM

**Other means of identification:** No data available.

### Recommended use of the chemical and restrictions on use

**Recommended use:** Lubricating grease

**Recommended restrictions:** Industrial use only

### Manufacturer/Importer/Distributor Information

#### Manufacturer

Company Name: Fuchs Lubricants Co.  
Address: 17050 Lathrop Avenue  
Harvey, Illinois 60426  
Telephone: 708-333-8900  
Fax: 708-333-9180

Contact Person: EHS Department  
E-mail: sds@fuchs.com

**Emergency telephone number:** 708-333-8900 (Bus. hrs) 800-255-3924 (24 hrs)

## 2. Hazard(s) identification

### Hazard Classification

Not classified as hazardous under GHS

#### Unknown toxicity - Health

|   |         |
|---|---------|
| Acute toxicity, oral                        | 1.36 %  |
| Acute toxicity, dermal                      | 4.74 %  |
| Acute toxicity, inhalation, vapor           | 98.21 % |
| Acute toxicity, inhalation, dust<br>or mist | 97.8 %  |

### Label Elements

**Hazard Symbol:** No symbol

**Signal Word:** No signal word.

**Hazard Statement:** Not applicable

**Precautionary Statements** Not applicable

### 3. Composition/information on ingredients

#### Mixtures

| Chemical Identity   | CAS number  | Content in percent (%)* |
|---|-------------|-------------------------|
| 1-Decene, homopolymer, hydrogenated   | 68037-01-4  | 40 - 70%                |
| 1-dodecene, polymer with 1-octene, hydrogenated                             | 163149-29-9 | 15 - 40%                |
| Lithium soap  | 7620-77-1   | 7 - 13%                 |
| Zinc oxide  | 1314-13-2   | 1 - 5%                  |
| Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts | 68457-79-4  | 0.5 - 5%                |
| Distillates (petroleum), solvent-refined heavy paraffinic                   | 64741-88-4  | 0.5 - 5%                |
| Glycerin  | 56-81-5     | 0.1 - 1%                |
| Lubricating oils (petroleum), hydrotreated spent                            | 64742-58-1  | 0.1 - 1%                |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic                   | 64742-65-0  | 0.1 - 1%                |

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

### 4. First-aid measures

- Inhalation:** Move to fresh air. Call a POISON CENTER/doctor if you feel unwell.
- Skin Contact:** Remove contaminated clothing and shoes. Wash contact areas with soap and water. If skin irritation occurs: Get medical advice/attention.
- Eye contact:** Flush thoroughly with water. If irritation occurs, get medical assistance. Continue to rinse for at least 15 minutes.
- Ingestion:** Rinse mouth thoroughly. Call a POISON CENTER/doctor if you feel unwell. Do NOT induce vomiting.

#### Most important symptoms/effects, acute and delayed

**Symptoms:** No data available.

**Hazards:** No data available.

#### Indication of immediate medical attention and special treatment needed

**Treatment:** Get medical attention if symptoms occur.

### 5. Fire-fighting measures

**General Fire Hazards:** No unusual fire or explosion hazards noted.

**Suitable (and unsuitable) extinguishing media**

**Suitable extinguishing media:** Water spray, fog, CO2, dry chemical, or regular foam. Use fire-extinguishing media appropriate for surrounding materials.

**Unsuitable extinguishing media:** Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards arising from the chemical:** Heat may cause the containers to explode. During fire, gases hazardous to health may be formed.

**Special protective equipment and precautions for fire-fighters**

**Special fire-fighting procedures:** No data available.

**Special protective equipment for fire-fighters:** Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

**6. Accidental release measures**

**Personal precautions, protective equipment and emergency procedures:** See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away. Ensure adequate ventilation.

**For non-emergency personnel:** No data available.

**For emergency responders:** No data available.

**Methods and material for containment and cleaning up:** Absorb with sand or other inert absorbent. Stop the flow of material, if this is without risk.

**Environmental Precautions:** Avoid release to the environment. Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.

**7. Handling and storage**

**Precautions for safe handling:** Observe good industrial hygiene practices. Wear appropriate personal protective equipment. Do not expose to intense heat as product may expand and pressurize container.

**Conditions for safe storage, including any incompatibilities:** Store in original tightly closed container. Avoid contact with oxidizing agents. Store away from incompatible materials.

## 8. Exposure controls/personal protection

### Control Parameters

#### Occupational Exposure Limits

| Chemical Identity   | Type    | Exposure Limit Values | Source   |
|---|---------|-----------------------|--|
| Zinc oxide - Respirable fraction.                         | VLE-PPT | 2 mg/m <sup>3</sup>   | Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014) |
|   | VLE-CT  | 10 mg/m <sup>3</sup>  | Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014) |
| Distillates (petroleum), hydrotreated heavy naphthenic    | VLE-PPT | 5 mg/m <sup>3</sup>   | Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014) |
| Glycerin  | VLE-PPT | 10 mg/m <sup>3</sup>  | Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014) |
| Lubricating oils (petroleum), hydrotreated spent          | VLE-PPT | 5 mg/m <sup>3</sup>   | Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014) |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | VLE-PPT | 5 mg/m <sup>3</sup>   | Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014) |

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| Distillates (petroleum), solvent-refined heavy paraffinic | VLE-PPT | 5 mg/m <sup>3</sup>     | Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014) |
| Glycerin  | VLE-PPT | 10 mg/m <sup>3</sup>    | Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014) |
| Lubricating oils (petroleum), hydrotreated spent          | VLE-PPT | 5 mg/m <sup>3</sup>     | Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014) |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | VLE-PPT | 5 mg/m <sup>3</sup>     | Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014) |
| Lead compound - as Pb                                     | VLE-PPT | 0.05 mg/m <sup>3</sup>  | Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014) |
| Cadmium compound - Respirable fraction. - as Cd           | VLE-PPT | 0.002 mg/m <sup>3</sup> | Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014) |

|   |         |             |  |
|---|---------|-------------|--|
|   |         |             | 2014)  |
| Cadmium compound - Inhalable fraction. - as Cd  | VLE-PPT | 0.01 mg/m3  | Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014) |
| Cadmium compound - Respirable fraction. - as Cd | VLE-PPT | 0.002 mg/m3 | Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014) |

**Appropriate Engineering Controls** No data available.

#### Individual protection measures, such as personal protective equipment

**General information:** Use personal protective equipment as required.

**Eye/face protection:** Wear safety glasses with side shields (or goggles).

#### Skin Protection

**Hand Protection:** No data available.

#### Other:

Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information.

**Respiratory Protection:** In case of inadequate ventilation use suitable respirator. Seek advice from supervisor on the company's respiratory protection standards.

**Hygiene measures:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

## 9. Physical and chemical properties

### Appearance

**Physical state:** solid  
**Form:** Grease  
**Color:** White

**Odor:** Mild

**Odor threshold:** No data available.

**pH:** No data available.

**Melting point/freezing point:** No data available.

**Initial boiling point and boiling range:** No data available.

**Flash Point:** 264 °C

**Evaporation rate:** No data available.

**Flammability (solid, gas):** No data available.

### Upper/lower limit on flammability or explosive limits

**Flammability limit - upper (%):** No data available.

**Flammability limit - lower (%):** No data available.

**Explosive limit - upper:** No data available.

|   |                    |
|---|--------------------|
| <b>Explosive limit - lower:</b>                 | No data available. |
| <b>Vapor pressure:</b>                          | No data available. |
| <b>Vapor density:</b>                           | No data available. |
| <b>Density:</b>                                 | No data available. |
| <b>Relative density:</b>                        | 0.95 (20 °C)       |
| <b>Solubility(ies)</b>                          |                    |
| <b>Solubility in water:</b>                     | Insoluble          |
| <b>Solubility (other):</b>                      | No data available. |
| <b>Partition coefficient (n-octanol/water):</b> | No data available. |
| <b>Auto-ignition temperature:</b>               | No data available. |
| <b>Decomposition temperature:</b>               | No data available. |
| <b>Viscosity:</b>                               | No data available. |

## 10. Stability and reactivity

|  |   |
|--|---|
| <b>Reactivity:</b>                         | Not reactive during normal use.   |
| <b>Chemical Stability:</b>                 | Material is stable under normal conditions.   |
| <b>Possibility of hazardous reactions:</b> | None under normal conditions. None under normal conditions.   |
| <b>Conditions to avoid:</b>                | Avoid heat or contamination. Avoid heat or contamination.   |
| <b>Incompatible Materials:</b>             | No data available.  |
| <b>Hazardous Decomposition Products:</b>   | Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors. |

## 11. Toxicological information

### Information on likely routes of exposure

|                      |  |
|----------------------|--|
| <b>Inhalation:</b>   | Inhalation is the primary route of exposure. In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes. |
| <b>Skin Contact:</b> | Prolonged skin contact may cause redness and irritation.   |
| <b>Eye contact:</b>  | Eye contact is possible and should be avoided.   |
| <b>Ingestion:</b>    | May be ingested by accident. Ingestion may cause irritation and malaise.   |

### Symptoms related to the physical, chemical and toxicological characteristics

|                      |                    |
|----------------------|--------------------|
| <b>Inhalation:</b>   | No data available. |
| <b>Skin Contact:</b> | No data available. |

**Eye contact:** No data available.

**Ingestion:** No data available.

**Information on toxicological effects**

**Acute toxicity (list all possible routes of exposure)**

**Oral**

**Product:** ATEmix (): 2000 - 5000 mg/kg

**Dermal**

**Product:** ATEmix (): 2000 - 5000 mg/kg

**Inhalation**

**Product:** No data available.

**Specified substance(s):**

Zinc oxide  
 NOEL (Rabbit): 5 mg/m<sup>3</sup>  
 LC 50 (Rat): > 1.79 mg/l  
 LC 50 (Mouse): 2,500 mg/m<sup>3</sup>  
 LC 50 (Rat): > 5,700 mg/m<sup>3</sup>  
 LC 50 (Mouse): > 5.7 mg/l

Distillates (petroleum),  
 solvent-refined heavy  
 paraffinic  
 LC 50 (Rat): 22 mg/l

Glycerin  
 LC 0 (Rat): 5,850 mg/m<sup>3</sup>  
 LC 50 (Rat): > 5,850 mg/m<sup>3</sup>  
 LC 50 (Rat): > 570 mg/m<sup>3</sup>

**Repeated dose toxicity**

**Product:** No data available.

**Skin Corrosion/Irritation**

**Product:** No data available.

**Specified substance(s):**

|  |   |
|--|---|
| 1-Decene,<br>homopolymer,<br>hydrogenated  | in vivo (Rabbit): Not irritant , 24 - 72 h Read-across based on grouping of substances (category approach), Weight of Evidence study  |
| Lithium soap   | in vivo (Rabbit): Not classified as an Irritant , 24 - 72 h Read-across based on grouping of substances (category approach), Weight of Evidence study<br>In vitro (Human, in vitro reconstituted epidermis model): Not irritant , 6 d<br>Experimental result, Key study   |
| Zinc oxide   | in vivo (Rabbit): Not irritant , 4 - 72 h Experimental result, Supporting study<br>In vitro (Human, in vitro reconstituted epidermis model): Non-corrosive , 2 d<br>Experimental result, Key study<br>In vitro (Human, EPISKIN epidermis model): Not irritant , > 0.00 h<br>Experimental result, Key study<br>In vitro (Human, in vitro test using skin model): Non-corrosive , 3 min<br>Experimental result, Key study<br>in vivo (Mouse): Not irritant Experimental result, Key study<br>in vivo (Guinea pig): Not irritant Experimental result, Key study<br>in vivo (Rabbit): Not irritant Experimental result, Key study |
| Phosphorodithioic acid,<br>mixed O,O-bis(iso-Bu<br>and pentyl) esters, zinc<br>salts | in vivo (Rabbit): Category 2 , 24 - 72 h Experimental result, Key study<br>in vivo (Rabbit): Not irritant , 24 - 72 h Experimental result, Key study  |

#### Serious Eye Damage/Eye Irritation

**Product:** No data available.

**Specified substance(s):**

|   |  |
|---|--|
| 1-Decene,<br>homopolymer,<br>hydrogenated | Rabbit, 48 h: Not irritant EU<br>Rabbit, 48 h: Not irritant EU<br>Rabbit, 72 h: Not irritant EU<br>Rabbit, 24 h: Not irritant EU<br>Rabbit, 24 h: Not irritant EU<br>Rabbit, 72 h: Not irritant EU<br>Rabbit, 24 - 72 h: Not irritant EU<br>Rabbit, 72 h: Not irritant EU  |
| Lithium soap                              | Rabbit, 7 d: Not irritant EU<br>Rabbit, 2 - 7 d: Not irritant<br>Rabbit, 7 d: Not irritant<br>Rabbit: Not irritant EU<br>Rabbit, 7 d: Not Classified EU<br>Rabbit, 3 - 7 d: Not irritant<br>Rabbit: Not irritant EU<br>Rabbit, 1 - 14 d: Not Classified EU<br>Rabbit, 72 h: Not irritant<br>Rabbit, 48 h: Not Classified EU<br>Rabbit, 24 - 72 h: Not Classified EU<br>Rabbit, 24 h: Not Classified EU |
| Zinc oxide                                | Rabbit, 24 - 72 h: Not irritant EU   |

|                          |  |
|--------------------------|--|
| Phosphorodithioic acid,  | Rabbit, 24 - 72 h: Category 1 OECD GHS |
| mixed O,O-bis(iso-Bu     | Rabbit, 24 - 72 h: Category 1 OECD GHS |
| and pentyl) esters, zinc | Rabbit, 24 - 72 h: Category 1 OECD GHS |
| salts                    | Rabbit, 24 - 72 h: Category 1 OECD GHS |
|                          | Rabbit, 24 - 72 h: Category 1 OECD GHS |
|                          | Rabbit, 24 - 72 h: Category 1 OECD GHS |
|                          | Rabbit, 24 - 72 h: Category 1 OECD GHS |
|                          | Rabbit, 24 - 72 h: Category 1 OECD GHS |
|                          | Rabbit, 24 - 72 h: Category 1 OECD GHS |
|                          | Rabbit, 24 - 72 h: Category 1 OECD GHS |
|                          | Rabbit, 24 - 72 h: Category 1 OECD GHS |
|                          | Rabbit, 24 - 72 h: Category 1 OECD GHS |
|                          | Rabbit, 24 - 72 h: Category 1 OECD GHS |
|                          | Rabbit, 24 - 72 h: Category 1 OECD GHS |

**Respiratory or Skin Sensitization**

**Product:** No data available.

**Carcinogenicity**

**Product:** No data available.

**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

No carcinogenic components identified

**Germ Cell Mutagenicity**

**In vitro**

**Product:** No data available.

**In vivo**

**Product:** No data available.

**Reproductive toxicity**

**Product:** No data available.

**Specific Target Organ Toxicity - Single Exposure**

**Product:** No data available.

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:** No data available.

**Aspiration Hazard**

**Product:** No data available.

**Other effects:** No data available.

**12. Ecological information**

**Ecotoxicity:**

**Acute hazards to the aquatic environment:**

**Fish**

**Product:** No data available.

**Specified substance(s):**

1-Decene, homopolymer, hydrogenated LC 50 (Rainbow Trout, 96 h): > 1,000 mg/l

Zinc oxide LC 50 (Striped bass (Morone saxatilis), 48 h): 0.25 - 2.46 mg/l Mortality

Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts  
LC 50 (Pimephales pomoxis, 96 h): 100 mg/l  
LC 50 (Pimephales pomoxis, 96 h): 25 - 50 mg/l

Glycerin LC 50 (Fish): 51,000 - 57,000 mg/l

Distillates (petroleum), solvent-dewaxed heavy paraffinic LC 50 (Fish, 96 h): > 100 mg/l

**Aquatic Invertebrates**

**Product:** No data available.

**Specified substance(s):**

1-Decene, homopolymer, hydrogenated EC50 (Daphnia, 48 h): 190 mg/l

Zinc oxide LC 50 (Water flea (Daphnia magna), 48 h): 0.098 mg/l Mortality

Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts EC50 (Daphnia magna, 48 h): 4 mg/l

Distillates (petroleum), solvent-refined heavy paraffinic EC50 (Daphnia): > 1,000 mg/l

Distillates (petroleum), solvent-dewaxed heavy paraffinic EC50 (Daphnia, 48 h): > 100 mg/l

**Chronic hazards to the aquatic environment:**

**Fish**

**Product:** No data available.

**Aquatic Invertebrates**

**Product:** No data available.

**Toxicity to Aquatic Plants**

**Product:** No data available.

**Specified substance(s):**

|   |  |
|---|--|
| Zinc oxide  | EC50 (Algae (Pseudokirchneriella subcapitata), 72 h): 0.042 mg/l   |
| Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts | EC50 (Pseudokirchneriella subcapitata (green algae), 96 h): 1 mg/l |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic                   | EC50 (Green algae (Scenedesmus quadricauda), 72 h): > 100 mg/l     |

**Persistence and Degradability**

**Biodegradation**

**Product:** No data available.

**BOD/COD Ratio**

**Product:** No data available.

**Bioaccumulative potential**

**Bioconcentration Factor (BCF)**

**Product:** No data available.

**Partition Coefficient n-octanol / water (log Kow)**

**Product:** No data available.

**Specified substance(s):**

Glycerin Log Kow: -1.76

**Mobility in soil:** No data available.

**Known or predicted distribution to environmental compartments**

|   |                    |
|---|--------------------|
| 1-Decene, homopolymer, hydrogenated   | No data available. |
| 1-dodecene, polymer with 1-octene, hydrogenated                             | No data available. |
| Lithium soap  | No data available. |
| Zinc oxide  | No data available. |
| Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts | No data available. |
| Distillates (petroleum), solvent-refined heavy paraffinic                   | No data available. |
| Glycerin  | No data available. |
| Lubricating oils (petroleum), hydrotreated spent                            | No data available. |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic                   | No data available. |

**Other adverse effects:** No data available.

### 13. Disposal considerations

**Disposal instructions:** Discharge, treatment, or disposal may be subject to national, state, or local laws. Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. It is the responsibility of the product user or owner to determine at the time of disposal, which waste regulations must be applied.

**Contaminated Packaging:** Empty containers should be taken to an approved waste handling site for recycling or disposal.

### 14. Transport information

**DOT**  
Not Regulated.

**IATA**  
Not Regulated.

**IMDG**  
Not Regulated.

### 15. Regulatory information

#### Safety, health and environmental regulations specific for the product in question

**Mexico. Substances subject to reporting for the pollutant release and transfer registry (PRTR)**  
None present or none present in regulated quantities.

**Mexico. Federal Law for the Control of Chemical Substances Susceptible to Diversion to Manufacturing of Chemical Weapons, Appendix 1: National list of chemical substances**  
Not applicable

**Mexico. Wastewater Discharges - Maximum Limits into Coastal Waters, Dams, Rivers, Soil and Wetlands (NOM-001-ECOL)**

|   |         |
|---|---------|
| Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts | Listed. |
| Lead compound   | Listed. |
| Cadmium compound  | Listed. |
| Zinc compound   | Listed. |

**Mexico. Hazardous Chemicals (NOM-028-STPS-2012, System for administration of workplace safety in the process and critical equipment for handling hazardous chemicals, Appendix A, Table A.I)**

Not applicable

**Mexico. Narcotic Drugs List (General Health Law, Articles 234 & 239, Feb. 7, 1984)**

Not applicable

**Mexico. Psychotropic Drugs (General Health Law, Feb. 7, 1984, Articles 245 & 254 Bis)**

Not applicable

**16. Other information, including date of preparation or last revision**

**Issue Date:** 01/20/2026

**Revision Information:** 01/20/2026: ARGHS\_MX

**Version #:** 1.2

**Further Information:** No data available.

**Disclaimer:** This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.