

## SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended.

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

#### 1.1 Product identifier

**Product name:** RENOLIT LX-ERP 2

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Identified uses:** Lubricating grease

**Uses advised against:** No uses advised against identified.

#### 1.3 Details of the supplier of the safety data sheet

##### Manufacturer / Supplier

Fuchs Schmierstoffe GmbH  
Friesenheimer Str. 19  
68169 Mannheim

Mexico Distributor  
LUBRICANTES FUCHS DE MEXICO, S.A. DE C.V.  
Acceso C No. 101 Parque Industrial Jurica  
C.P. 76120 Querétaro, Qro/México  
+ 52 (442) 238-9100  
+ 52 (442) 238-9110  
Departamento de Calidad  
info@fuchs.com.mx

Telephone:

+49 621 3701-0 (ZENTRALE)

Fax:

+49 621 3701-570

##### Contact Person:

Fuchs Schmierstoffe GmbH Abteilung Produktsicherheit

Telephone:

+49 621 3701-1333

Fax:

+49 621 3701-7303

E-mail:

produktsicherheit-FS@fuchs.com

#### 1.4 Emergency telephone number:

+49 621 3701-1333 / +49 621 3701-0 (Mo-Do 8-17, Fr 8-16)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**||** The product has been classified and labelled as hazardous according to regulation (EU) 1272/2008 (CLP).

**Classification according to Regulation (EC) No 1272/2008 as amended.**

##### Health Hazards

Skin sensitizer

Category 1

H317: May cause an allergic skin reaction.

Respiratory sensitizer

Category 1

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

##### Environmental Hazards

Chronic hazards to the aquatic environment

Category 3

H412: Harmful to aquatic life with long lasting effects.

##### Hazard summary

**Physical Hazards:**

No data available.

#### 2.2 Label Elements

Issue Date: 30.10.2013

Revision Date: 30.07.2019

Print date: 03.08.2019

SDS\_DE - EN - 000000000600655549

Version: 3.0

1/12

**Product name:** RENOLIT LX-ERP 2

**Contains:** carboxylic acid zinc salt  
Zn compound



**Signal Words:** Danger

**Hazard Statement(s):** H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H317: May cause an allergic skin reaction.  
H412: Harmful to aquatic life with long lasting effects.

#### Precautionary Statements

**Prevention:** P261: Avoid breathing dust/fume/gas/mist/vapours/spray.  
P273: Avoid release to the environment.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P284: [In case of inadequate ventilation] wear respiratory protection.

**Response:** P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

**Disposal:** P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

**2.3 Other hazards:** By handling of mineral oil products and chemical products no particular hazard is known when normal precautions (item 7) and personal protective equipment (item 8) are kept. The product may not be released into the environment without control.

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

**General information:** Lubricating grease: Thickener system and additives in synthetic base oil.

| Chemical name             | Identifier        | Concentration *  | REACH Registration No. | Notes |
|---------------------------|-------------------|------------------|------------------------|-------|
| Polyglycol                | EC: 608-643-4     | 50,00 - <100,00% |                        |       |
| Quinoline polymer         | EC: 500-051-3     | 1,00 - <5,00%    | 01-2119486783-23       |       |
| carboxylic acid zinc salt | EINECS: 282-762-6 | 1,00 - <5,00%    | 01-2119988500-34       |       |
| dilithium sebacate        | EINECS: 242-999-8 | 1,00 - <5,00%    | 01-2120119384-60       |       |
| Zn compound               | EINECS: 234-409-2 | 1,00 - <2,50%    | 01-2120783834-41       |       |
| Molybdenum thiocarbamate  | EINECS: 270-180-5 | 1,00 - <5,00%    | 01-2120764792-44       |       |
| Zn-Octoate                | EINECS: 286-272-3 | 0,10 - <1,00%    | 01-2119979093-30       |       |

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

**Product name:** RENOLIT LX-ERP 2

PBT: persistent, bioaccumulative and toxic substance.  
 vPvB: very persistent and very bioaccumulative substance.

**Classification**

| Chemical name             | Identifier        | Classification  |
|---------------------------|-------------------|---|
| Polyglycol                | EC: 608-643-4     | CLP: Aquatic Chronic 3;H412   |
| Quinoline polymer         | EC: 500-051-3     | CLP: Aquatic Chronic 3;H412   |
| carboxylic acid zinc salt | EINECS: 282-762-6 | CLP: Aquatic Chronic 3;H412, Skin Sens. 1A;H317, Resp. Sens. 1;H334 |
| dilithium sebacate        | EINECS: 242-999-8 | CLP: Acute Tox. 4;H302  |
| Zn compound               | EINECS: 234-409-2 | CLP: Aquatic Chronic 2;H411, Skin Sens. 1B;H317, Eye Irrit. 2;H319  |
| Molybdenum thiocarbamate  | EINECS: 270-180-5 | CLP: Aquatic Chronic 4;H413   |
| Zn-Octoate                | EINECS: 286-272-3 | CLP: Repr. 2;H361d, Eye Irrit. 2;H319, Aquatic Chronic 3;H412       |

CLP: Regulation No. 1272/2008.

For the wording of the listed hazard statements refer to section 16.

**SECTION 4: First aid measures**

**General:** Instantly remove any clothing soiled by the product.

**4.1 Description of first aid measures**

**Inhalation:** Call a physician or poison control center immediately. If breathing stops, provide artificial respiration. Move to fresh air. If breathing is difficult, give oxygen.

**Eye contact:** Promptly wash eyes with plenty of water while lifting the eye lids.

**Skin Contact:** Destroy or thoroughly clean contaminated shoes. Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water. If skin irritation or an allergic skin reaction develops, get medical attention.

**Ingestion:** Rinse mouth thoroughly.

**4.2 Most important symptoms and effects, both acute and delayed:** May cause allergy or asthma symptoms or breathing difficulties if inhaled. Suspected to cause hypersensitivity and allergy.

**4.3 Indication of any immediate medical attention and special treatment needed** Symptoms may be delayed.

**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

**Suitable extinguishing media:** CO<sub>2</sub>, fire extinguishing powder or fog like water spraying. Extinguish larger fires with alcohol resistant foam or spray water with suitable surfactant added

**Product name:** RENOLIT LX-ERP 2

**Unsuitable extinguishing media:** Water with a full water jet.

**5.2 Special hazards arising from the substance or mixture:** During fire, gases hazardous to health may be formed.

**5.3 Advice for firefighters**

**Special fire fighting procedures:** Move container from fire area if it can be done without risk. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Collect contaminated fire fighting water separately. It must not enter drains.

**Special protective equipment for fire-fighters:** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures:** Ventilate closed spaces before entering them. Evacuate area. Keep upwind. Keep unauthorized personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

**6.2 Environmental Precautions:** Avoid release to the environment. Prevent further leakage or spillage if safe to do so.

**6.3 Methods and material for containment and cleaning up:** Scrape up spillage or absorb with absorbing material. Dispose of the material collected according to regulations. Stop the flow of material, if this is without risk.

**6.4 Reference to other sections:** See Section 8 of the SDS for Personal Protective Equipment. See Section 7 for information on safe handling. See Section 13 for information on disposal.

**SECTION 7: Handling and storage:**

**7.1 Precautions for safe handling:** Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with eyes, skin, and clothing. Wash hands thoroughly after handling. Do not eat, drink or smoke when working with the product. Take usual precautions when handling mineral oil products or chemical products.

**7.2 Conditions for safe storage, including any incompatibilities:** Local regulations concerning handling and storage of waterpolluting products have to be followed.

**7.3 Specific end use(s):** Not applicable

**Storage Class:** 11, Combustible solids

**Product name:** RENOLIT LX-ERP 2

## SECTION 8: Exposure controls/personal protection

### 8.1 Control Parameters

#### Occupational Exposure Limits

None of the components have assigned exposure limits.

### 8.2 Exposure controls

#### Appropriate engineering controls:

Provide adequate ventilation. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

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

##### General information:

Wash hands before breaks and after work. Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. The usual precautionary measures should be adhered to in handling the chemicals or the mineral oil products.

##### Eye/face protection:

Safety glasses (EN 166) recommended during refilling. Avoid contact with skin and eyes. Goggles/face shield are recommended. If risk of splashing, wear safety goggles or face shield.

##### Skin protection

##### Hand Protection:

Material: Nitrile-butadiene rubber (NBR).  
Min. Breakthrough time:  $\geq 480$  min  
Recommended thickness of the material:  $\geq 0,38$  mm

Avoid long-term and repeated skin contact. Suitable gloves can be recommended by the glove supplier. Use skin protection cream for preventive skin protection. Protective gloves, where permitted in acc. to safety directions. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

##### Other:

Do not carry cleaning cloths impregnated with the product in trouser pockets. Wear suitable protective clothing.

##### Respiratory Protection:

Not relevant, due to the form of the product.

##### Thermal hazards:

Not known.

##### 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.

##### Environmental Controls:

No data available.

## SECTION 9: Physical and chemical properties

**Product name:** RENOLIT LX-ERP 2

### 9.1 Information on basic physical and chemical properties

#### Appearance

|   |                                       |
|---|---------------------------------------|
| <b>Physical state:</b>                          | solid                                 |
| <b>Form:</b>                                    | Paste                                 |
| <b>Color:</b>                                   | Yellow                                |
| <b>Odor:</b>                                    | Characteristic                        |
| <b>Odor Threshold:</b>                          | Not applicable for mixtures           |
| <b>pH:</b>                                      | Not applicable                        |
| <b>Freezing point:</b>                          | Not applicable for mixtures           |
| <b>Boiling Point:</b>                           | Not applicable                        |
| <b>Flash Point:</b>                             | Not applicable                        |
| <b>Evaporation Rate:</b>                        | Not applicable for mixtures           |
| <b>Flammability (solid, gas):</b>               | Value not relevant for classification |
| <b>Flammability Limit - Upper (%)—:</b>         | Value not relevant for classification |
| <b>Flammability Limit - Lower (%)—:</b>         | Value not relevant for classification |
| <b>Vapor pressure:</b>                          | Not applicable for mixtures           |
| <b>Vapor density (air=1):</b>                   | Not applicable for mixtures           |
| <b>Density:</b>                                 | 1,02 g/ml (15,00 °C)                  |
| <b>Solubility(ies)</b>                          |                                       |
| <b>Solubility in Water:</b>                     | Insoluble in water                    |
| <b>Solubility (other):</b>                      | No data available.                    |
| <b>Partition coefficient (n-octanol/water):</b> | Not applicable for mixtures           |
| <b>Autoignition Temperature:</b>                | Value not relevant for classification |
| <b>Decomposition Temperature:</b>               | Value not relevant for classification |
| <b>NLGI:</b>                                    | 2                                     |
| <b>Explosive properties:</b>                    | Value not relevant for classification |
| <b>Oxidizing properties:</b>                    | Value not relevant for classification |

#### 9.2 Other information

No data available.

## SECTION 10: Stability and reactivity

|   |   |
|---|---|
| <b>10.1 Reactivity:</b>                         | Stable under normal use conditions.   |
| <b>10.2 Chemical Stability:</b>                 | Stable under normal use conditions.   |
| <b>10.3 Possibility of hazardous reactions:</b> | Stable under normal use conditions.   |
| <b>10.4 Conditions to avoid:</b>                | Stable under normal use conditions.   |
| <b>10.5 Incompatible Materials:</b>             | Strong oxidizing substances. Strong acids. Strong bases.  |
| <b>10.6 Hazardous Decomposition Products:</b>   | Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors. |

## SECTION 11: Toxicological information

### Information on likely routes of exposure

**Product name:** RENOLIT LX-ERP 2

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|                      |                                      |
|----------------------|--------------------------------------|
| <b>Inhalation:</b>   | No data available.                   |
| <b>Ingestion:</b>    | No data available.                   |
| <b>Skin Contact:</b> | May cause an allergic skin reaction. |
| <b>Eye contact:</b>  | No data available.                   |

### 11.1 Information on toxicological effects

#### Acute toxicity

##### Oral

|                               |                                     |
|-------------------------------|-------------------------------------|
| <b>Product:</b>               | ATEmix: 137.997 mg/kg               |
| <b>Specified substance(s)</b> |                                     |
| Quinoline polymer             | LD 50 (Rat): 3.190 mg/kg            |
| dilithium sebacate            | LD 50 (Rat): 2.000 mg/kg (OECD 420) |
| Zn compound                   | LC 50 (Rat): 4.920 mg/kg            |

##### Dermal

|                               |  |
|-------------------------------|--|
| <b>Product:</b>               | Not classified for acute toxicity based on available data. |
| <b>Specified substance(s)</b> |  |
| Quinoline polymer             | LD 50 (Rabbit): > 5.100 mg/kg                              |

##### Inhalation

|                               |  |
|-------------------------------|--|
| <b>Product:</b>               | Not classified for acute toxicity based on available data. |
| <b>Specified substance(s)</b> |  |
| dilithium sebacate            | No data available.   |
| Zn compound                   | LC 0 (Rat, 4 h): > 11,6 mg/l                               |

##### Skin Corrosion/Irritation:

|                               |  |
|-------------------------------|--|
| <b>Product:</b>               | Based on available data, the classification criteria are not met.  |
| <b>Specified substance(s)</b> |  |
| Quinoline polymer             | OECD 404 (Rabbit):<br>Not irritant.  |
| dilithium sebacate            | OECD 431<br>Based on available data, the classification criteria are not met.<br>OECD 439<br>Based on available data, the classification criteria are not met. |

**Product name:** RENOLIT LX-ERP 2

**Serious Eye Damage/Eye Irritation:**

**Product:** Based on available data, the classification criteria are not met.

**Specified substance(s)**

Quinoline polymer OECD 405 (Rabbit):  
Not irritant.

dilithium sebacate OECD 405 (Rabbit):  
Based on available data, the classification criteria are not met.

**Respiratory or Skin Sensitization:**

**Product:** May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
May cause sensitization by inhalation.

**Specified substance(s)**

Quinoline polymer No sensitizing effect (guinea pig); OECD 406

dilithium sebacate , OECD 429 (Mouse)  
Based on available data, the classification criteria are not met.

**Germ Cell Mutagenicity**

**Product:** Based on available data, the classification criteria are not met.

**In vitro**

**Specified substance(s)**

dilithium sebacate (OECD 471)  
Based on available data, the classification criteria are not met.

**Carcinogenicity**

**Product:** Based on available data, the classification criteria are not met.

**Reproductive toxicity**

**Product:** Based on available data, the classification criteria are not met.

**Specific Target Organ Toxicity - Single Exposure**

**Product:** Based on available data, the classification criteria are not met.

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:** Based on available data, the classification criteria are not met.

**Aspiration Hazard**

**Product:** Based on available data, the classification criteria are not met.

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

**SECTION 12: Ecological information**

**12.1 Toxicity**

**Acute toxicity**

**Product:** Based on available data, the classification criteria are not met.

**Fish**

**Specified substance(s)**

Quinoline polymer LC 50 (Fish, 96 h): 50 - 64 mg/l



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|                    |   |
|--------------------|---|
| dilithium sebacate | LC 50 (Fish, 96 h): 100 mg/l (OECD 203) |
| Zn compound        | LC 50 (Fish, 96 h): > 100 mg/l          |
| Zn-Octoate         | LC 50 (Fish, 96 h): 100 mg/l (OECD 203) |

**Aquatic Invertebrates**

**Specified substance(s)**

|                          |  |
|--------------------------|--|
| Polyglycol               | EC 50 (Water Flea, 48 h): > 10 mg/l (OECD 202) |
| Quinoline polymer        | EC 50 (Water Flea, 48 h): 56 mg/l              |
| dilithium sebacate       | EC 50 (Water Flea, 48 h): 100 mg/l (OECD 202)  |
| Zn compound              | EC 50 (Water Flea, 48 h): 35 mg/l              |
| Molybdenum thiocarbamate | EC 50 (Water Flea, 48 h): 100 mg/l             |

**Chronic ToxicityProduct:** Based on available data, the classification criteria are met.

**Toxicity to Aquatic Plants**

**Specified substance(s)**

|                          |   |
|--------------------------|---|
| Quinoline polymer        | EC 50 (Alga, 72 h): > 100 mg/l          |
| dilithium sebacate       | EC 50 (Alga, 72 h): 100 mg/l (OECD 201) |
| Zn compound              | EC 50 (Alga, 72 h): 4 mg/l              |
| Molybdenum thiocarbamate | EC 50 (Alga, 72 h): 100 mg/l            |

## 12.2 Persistence and Degradability

**Biodegradation**

**Product:**

Not applicable for mixtures

**Specified substance(s)**

|                           |   |
|---------------------------|---|
| Polyglycol                | 0 % (28 d, OECD 301F)                           |
| carboxylic acid zinc salt | 29 % (28 d, OECD 301B) Not easily biodegradable |
| dilithium sebacate        | (OECD 301D) Inherently biodegradable            |
| Molybdenum thiocarbamate  | 0 % (28 d, OECD 301B) Not easily biodegradable  |
| Zn-Octoate                | 70 % (28 d, OECD 301D) Readily biodegradable    |

## 12.3 Bioaccumulative potential

**Product:**

Not applicable for mixtures

## 12.4 Mobility in soil:

**Product:**

Not applicable for mixtures

**Product name:** RENOLIT LX-ERP 2

**12.5 Results of PBT and vPvB assessment:** The product does not contain any substances fulfilling the PBT/vPvB criteria.

**12.6 Other adverse effects:** Harmful to aquatic life with long lasting effects.

**Water Hazard Class (WGK):** WGK 2: significantly water-endangering.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

**General information:** Dispose in accordance with all applicable regulations.

**Disposal methods:** Discharge, treatment, or disposal may be subject to national, state, or local laws.

#### European Waste Codes

12 01 12\*: spent waxes and fats

### SECTION 14: Transport information

#### ADR/RID

14.1 UN Number: —  
 14.2 UN Proper Shipping Name: —  
 14.3 Transport Hazard Class(es)  
     Class: Non-dangerous goods  
     Label(s): —  
     Hazard No. (ADR): —  
     Tunnel restriction code: —  
 14.4 Packing Group: —  
 14.5 Environmental hazards: —  
 14.6 Special precautions for user: —

#### ADN

14.1 UN Number: —  
 14.2 UN Proper Shipping Name: —  
 14.3 Transport Hazard Class(es)  
     Class: Non-dangerous goods  
     Label(s): —  
 14.3 Packing Group: —  
 14.5 Environmental hazards: —  
 14.6 Special precautions for user: —

**Product name:** RENOLIT LX-ERP 2

#### IMDG

- 14.1 UN Number: —
- 14.2 UN Proper Shipping Name: —
- 14.3 Transport Hazard Class(es)
  - Class: Non-dangerous goods
  - Label(s): —
  - EmS No.: —
- 14.3 Packing Group: —
- 14.5 Environmental hazards: —
- 14.6 Special precautions for user: —

#### IATA

- 14.1 UN Number: —
- 14.2 Proper Shipping Name: —
- 14.3 Transport Hazard Class(es):
  - Class: Non-dangerous goods
  - Label(s): —
- 14.4 Packing Group: —
- 14.5 Environmental hazards: —
- 14.6 Special precautions for user: —

**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code:** Not applicable.

### SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

##### EU Regulations

**Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer:** none

**Regulation (EC) No. 850/2004 on persistent organic pollutants:** none

##### National Regulations

**Water Hazard Class (WGK):** WGK 2: significantly water-endangering.

**15.2 Chemical safety assessment:** No Chemical Safety Assessment has been carried out.

### SECTION 16: Other information

**Revision Information:** Vertical lines in the margin indicate an amendment.

**Product name:** RENOLIT LX-ERP 2

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**Wording of the H-statements in section 2 and 3**

|       |  |
|-------|--|
| H302  | Harmful if swallowed.  |
| H317  | May cause an allergic skin reaction.                                       |
| H319  | Causes serious eye irritation.   |
| H334  | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H361d | Suspected of damaging the unborn child.                                    |
| H411  | Toxic to aquatic life with long lasting effects.                           |
| H412  | Harmful to aquatic life with long lasting effects.                         |
| H413  | May cause long lasting harmful effects to aquatic life.                    |

**Other information:** The classification complies with the current EU lists; however, it has been supplemented with expert literature information and information provided by/about our company. It was derived from the test data and/or the application of the conventional method.

**Revision Date:** 30.07.2019

**Disclaimer:** The data contained in this safety data sheet are based on our current knowledge and experience and are given to the best of our knowledge and belief. It characterizes the product only with regard to safety requirements for handling, transport and disposal. The data do not describe the product's properties (tech. product specification). Neither should any agreed property nor the suitability of the product for any specific technical application be deduced from the data contained in this safety data sheet. Modifications on this document are not allowed. The data are not transferable to other products. In the case of mixing the product with other products or in the case of processing, the data in this safety data sheet are not necessarily valid for the new-made material. It is the responsibility of the recipient of the product to observe federal, state and local law. Please contact us to obtain up-to-date safety data sheets. This document was issued electronically and has no signature.