

# SAFETY DATA SHEET

acc.to ISO/DIS 11014 for USA

## 1 PRODUCT AND COMPANY IDENTIFICATION

### 1.1 Product identifier

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

**Other means of identification:** For further information, please refer to section 9 of the SDS.

### 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

Fuchs Schmierstoffe GmbH  
Friesenheimer Str. 19  
68169 Mannheim

#### US Distributor

Fuchs Lubricants Co.  
17050 Lathrop Avenue  
Harvey, IL 60426

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 US contact telephone :** 708-333-8900  
**Emergency telephone:** 800-255-3924

## 2 HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

The product has not been classified as hazardous and does not need to be labelled according to the legislation in force.

#### Hazard summary

**Physical Hazards:** No data available.

### 2.2 Label Elements

Not applicable

### 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.

**Unknown toxicity:** Due to information available product does not contain any ingredients of unknown toxicity.

## 3 COMPOSITION / INFORMATION ON INGREDIENTS

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

**General information:** Lubricating grease: Thickener system and additives in solvent refined mineral oil.

Chemical name	Identifier	Concentration *	Notes
ZnDTP	85940-28-9	1.00 - <2.50%	
Zn compound	12001-85-3	0.10 - <1.00%	
Thickener compound for lithium greases	12007-60-2	0.10 - <1.00%	

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.  
 PBT: persistent, bioaccumulative and toxic substance.  
 vPvB: very persistent and very bioaccumulative substance.

#### Classification

Chemical name	Identifier	Classification
ZnDTP	85940-28-9	Eye Irrit. 2;H319, Skin Irrit. 2;H315, Aquatic Chronic 2;H411
Zn compound	12001-85-3	Aquatic Chronic 2;H411, Skin Sens. 1B;H317, Eye Irrit. 2;H319
Thickener compound for lithium greases	12007-60-2	Acute Tox. 4;H302, Eye Dam. 1;H318, Repr. 2;H361d

Please note that the mineral oils and petroleum distillates used in our products are severely refined and have a DMSO extract < 3% as measured by method IP 346 and are not classified as carcinogenic according to Note L of Annex VI of Regulation EC 1272/2008."

## 4 FIRST AID MEASURES

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

### 4.1 Description of first aid measures

**Inhalation:** Supply fresh air; consult doctor in case of symptoms.

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

**Skin Contact:** Wash with soap and water.

**Ingestion:** Rinse mouth thoroughly.

**4.2 Most important symptoms and effects, both acute and delayed:** May cause skin and eye irritation.

**4.3 Indication of any immediate medical attention and special treatment needed** Get medical attention if symptoms occur.

## SECTION 5: Firefighting measures

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

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### 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

**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:** Not required.

**6.2 Environmental Precautions:** Avoid release to the environment. Environmental manager must be informed of all major spillages. Prevent further leakage or spillage if safe to do so. Do not allow to enter drainage system, surface or ground water.

**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:** Provide adequate ventilation. Observe good industrial hygiene practices. 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

Product name: RENOLIT LX-PEP 2

## 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1.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.

##### 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:

No data available.

##### 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.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties Appearance

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

<b>Physical state:</b>	solid
<b>Form:</b>	Paste
<b>Color:</b>	Green
<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>	Not applicable for mixtures
<b>Flammability Limit - Lower (%)—:</b>	Not applicable for mixtures
<b>Vapor pressure:</b>	Not applicable for mixtures
<b>Vapor density (air=1):</b>	Not applicable for mixtures
<b>Density:</b>	0.90 g/cm <sup>3</sup> (25 °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
<b>9.2 Other information</b>	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.

## 11 TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

**Inhalation:** No data available.

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

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**Ingestion:** No data available.

**Skin Contact:** No data available.

**Eye contact:** No data available.

## Acute toxicity

### Oral

#### Product:

Not classified for acute toxicity based on available data.

#### Specified substance(s)

Zn compound

LC 50 (Rat): 4,920 mg/kg

Thickener compound for  
lithium greases

LD 50 (Rat): 500 mg/kg (OECD 423)

### Dermal

#### Product:

Not classified for acute toxicity based on available data.

#### Specified substance(s)

Thickener compound for  
lithium greases

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

### Inhalation

#### Product:

Not classified for acute toxicity based on available data.

#### Specified substance(s)

Zn compound

LC 0 (Rat, 4 h): > 11.6 mg/l

Thickener compound for  
lithium greases

No data available.

### Skin Corrosion/Irritation:

#### Product:

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

#### Specified substance(s)

Thickener compound for  
lithium greases

OECD 431 Based on available data, the classification criteria are not met.  
OECD 439 Based on available data, the classification criteria are not met.

### Serious Eye Damage/Eye Irritation:

#### Product:

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

#### Specified substance(s)

Thickener compound for  
lithium greases

OECD 437 Not applicable  
OECD 405 Corrosive.

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

**Respiratory or Skin Sensitization:**

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

**Specified substance(s)**

Thickener compound for lithium greases 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)**

Thickener compound for lithium greases (OECD 473)  
Based on available data, the classification criteria are not met.

**Carcinogenicity**

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

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

No carcinogenic components identified

**NTP: US. National Toxicology Program (NTP) Report on Carcinogens:**

No carcinogenic components identified

**OSHASp: US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):**

No carcinogenic components identified

**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.

**12 ECOLOGICAL INFORMATION**

**12.1 Toxicity**

**Acute toxicity**

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

**Fish**

**Specified substance(s)**

Zn compound LC 50 (Fish, 96 h): > 100 mg/l

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

Thickener compound for lithium greases LC 50 (Fish, 96 h): 100 mg/l (OECD 203)

#### **Aquatic Invertebrates**

##### **Specified substance(s)**

Zn compound EC 50 (Water Flea, 48 h): 35 mg/l

Thickener compound for lithium greases EC 50 (Water Flea, 48 h): 100 mg/l (OECD 202)

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

#### **Toxicity to Aquatic Plants**

##### **Specified substance(s)**

Zn compound EC 50 (Alga, 72 h): 4 mg/l

Thickener compound for lithium greases EC 50 (Alga, 72 h): 100 mg/l (OECD 201)

### **12.2 Persistence and Degradability**

#### **Biodegradation**

**Product:** Not applicable for mixtures

##### **Specified substance(s)**

Thickener compound for lithium greases Study technically not feasible

### **12.3 Bioaccumulative potential**

**Product:** Not applicable for mixtures

### **12.4 Mobility in soil:**

**Product:** Not applicable for mixtures

### **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:** No data available.

## **13 Disposal considerations**

### **13.1 Waste treatment methods**

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

**Disposal methods:** Do not empty into drains; dispose of this material and its container in a safe way. When storing used products, ensure that the waste categories and mixing instructions are observed.

## **14 TRANSPORT INFORMATION**

### **DOT**

Not regulated.



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

**IMDG - International Maritime Dangerous Goods Code**

Not regulated.

**IATA**

Not regulated.

**15 REGULATORY INFORMATION**

**US Federal Regulations**

**US State Regulations**

**Inventory Status**

DSL	On or in compliance with the inventory
TSCA	On or in compliance with the inventory

**16 OTHER INFORMATION**

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

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

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H361d	Suspected of damaging the unborn child.
H411	Toxic to aquatic life with long lasting effects.

**Revision Date:** 29.07.2019

**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.