

## SAFETY DATA SHEET

acc.to ISO/DIS 11014 for USA

### 1 PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 Product identifier

**Product name:** RENOLIT LX-PG 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 / Supplier**

FUCHS LUBRICANTS GERMANY GmbH  
Friesenheimer Str. 19  
68169 Mannheim

Telephone:

+49 621 3701-0 (ZENTRALE)

Fax:

+49 621 3701-570

#### Contact for request of safety data sheets

E-mail:

Automotive lubricants

CS.Services-FLG@fuchs.com

Industrial lubricants

Telephone:

+49 621 3701-0 (ZENTRALE)

#### Informing department for safety data sheets

E-mail:

produktsicherheit-FLG@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 been classified and labelled as hazardous according to the legislation in force.

##### Health Hazards

Skin sensitizer

Category 1

Toxic to reproduction

Category 2

##### Environmental Hazards

Chronic hazards to the aquatic environment

Category 3

---

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

---

**Hazard summary****Physical Hazards:** No data available.**2.2 Label Elements****Signal Words:** Warning**Hazard Statement(s):** H317: May cause an allergic skin reaction.  
H361: Suspected of damaging fertility or the unborn child.  
H412: Harmful to aquatic life with long lasting effects.**Precautionary Statements****Prevention:** P261: Avoid breathing dust/fume/gas/mist/vapors/spray.  
P201: Obtain special instructions before use.  
P202: Do not handle until all safety precautions have been read and understood.  
P281: Use personal protective equipment as required.  
P273: Avoid release to the environment.**Response:** P302+P352: IF ON SKIN: Wash with plenty of water.  
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.  
P308+P313: IF exposed or concerned: Get medical advice/attention.  
P321: Specific treatment (see on this label).**Storage:** P405: Store locked up.**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.**Unknown toxicity:** Due to information available product does not contain any ingredients of unknown toxicity.

---

**3 COMPOSITION / INFORMATION ON INGREDIENTS**

---

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

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

Chemical name	Identifier	Concentration *	Notes
Dilithium azelate	38900-29-7	5.00 - <10.00%	
ZnDTP	4259-15-8	1.00 - <2.50%	
carboxylic acid zinc salt	12001-85-3	0.10 - <1.00%	
Zn-Octoate	136-53-8	0.10 - <1.00%	
phenolic antioxidant	128-37-0	0.25 - <1.00%	
Amine aromatic , alkylated	68411-46-1	0.10 - <1.00%	
Thiadiazole derivative	72676-55-2	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
Dilithium azelate	38900-29-7	Acute Tox. 4;H302
ZnDTP	4259-15-8	Eye Dam. 1;H318, Aquatic Chronic 2;H411
carboxylic acid zinc salt	12001-85-3	Skin Sens. 1;H317, Aquatic Chronic 3;H412
Zn-Octoate	136-53-8	Repr. 2;H361d, Eye Irrit. 2;H319, Aquatic Chronic 3;H412
phenolic antioxidant	128-37-0	Aquatic Acute 1;H400, Aquatic Chronic 1;H410; M-Factor (aquatic acute): 1; M-Factor (aquatic chronic): 1
Amine aromatic , alkylated	68411-46-1	Repr. 2;H361f, Aquatic Chronic 3;H412
Thiadiazole derivative	72676-55-2	Skin Sens. 1B;H317, Aquatic Chronic 2;H411

## 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:** 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:** 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

---

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

---

**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:** Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.

**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:** 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

---

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

---

<b>8 EXPOSURE CONTROLS / PERSONAL PROTECTION</b>
--

**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:**

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 butyl 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.

<b>9 PHYSICAL AND CHEMICAL PROPERTIES</b>
---

**9.1 Information on basic physical and chemical propertiesAppearance**

---

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

---

<b>Physical state:</b>	solid
<b>Form:</b>	Paste
<b>Color:</b>	Light brown
<b>Odor:</b>	Characteristic
<b>Odor Threshold:</b>	Not applicable for mixtures
<b>pH:</b>	Not applicable
<b>Drop Point:</b>	200 °C (IP 396)
<b>Boiling Point:</b>	Value not relevant for classification
<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>Relative vapor density:</b>	Not applicable for mixtures
<b>Density:</b>	1.15 g/ml (25.00 °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
<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.

---

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

---

**Ingestion:** No data available.

**Skin Contact:** May cause an allergic skin reaction.

**Eye contact:** No data available.

**Acute toxicity****Oral****Product:**

ATEmix: 37,600.35 mg/kg

**Specified substance(s)**

Dilithium azelate

LD 50 (Rat): 2,000 mg/kg (OECD 420)

ZnDTP

LD 50 (Rat): 4,358 mg/kg

phenolic antioxidant

LD 50 (Rat): &gt; 2,930 mg/kg (OECD 401)

Amine aromatic ,  
alkylated

LD 50 (Rat): &gt; 5,000 mg/kg (OECD 401)

**Dermal****Product:**

Not classified for acute toxicity based on available data.

**Specified substance(s)**

ZnDTP

LD 50 (Rabbit): &gt; 5,000 mg/kg (OECD 402)

phenolic antioxidant

LD 50 (Rat): &gt; 5,000 mg/kg (OECD 402)

**Inhalation****Product:**

Not classified for acute toxicity based on available data.

**Specified substance(s)**

Dilithium azelate

No data available.

**Skin Corrosion/Irritation:****Product:**

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

**Specified substance(s)**

Dilithium azelate

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

ZnDTP

(Rabbit): None.

---

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

---

**Serious Eye Damage/Eye Irritation:**

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

**Specified substance(s)**

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

ZnDTP (Rabbit): Slightly irritating.

Amine aromatic ,  
alkylated OECD 405 (Rabbit): Not irritant.

**Respiratory or Skin Sensitization:**

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

**Specified substance(s)**

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

ZnDTP , OECD 406-1 (Guinea Pig)Not a skin sensitizer.

phenolic antioxidant No sensitizing effect (guinea pig); OECD 406

Amine aromatic ,  
alkylated No sensitizing effect (guinea pig); OECD 406

**Germ Cell Mutagenicity**

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

**In vitro****Specified substance(s)**

Dilithium azelate (OECD 471)  
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

**OSHAS: 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 met.



---

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

---

**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.

<b>12 ECOLOGICAL INFORMATION</b>
----------------------------------

**General information:** Not applicable

**12.1 Toxicity****Acute toxicity**

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

**Fish****Specified substance(s)**

Dilithium azelate LC 50 (Fish, 96 h): 100 mg/l (OECD 203)

ZnDTP LC 50 (Fish, 96 h): 4.4 mg/l (OECD 203)

Zn-Octoate LC 50 (Fish, 96 h): 100 mg/l (OECD 203)

Amine aromatic ,  
alkylated LC 50 (Fish, 96 h): > 100 mg/l (OECD 203)

**Aquatic Invertebrates****Specified substance(s)**

Dilithium azelate EC 50 (Water Flea, 48 h): 100 mg/l (OECD 202)

ZnDTP EC 50 (Water Flea, 48 h): 75 mg/l (OECD 202)

phenolic antioxidant EC 50 (Water Flea, 48 h): 0.61 mg/l (OECD 202)

Amine aromatic ,  
alkylated EC 50 (Daphnia magna): 51 mg/l (OECD 202)

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

**Fish****Specified substance(s)**

ZnDTP NOEC (Fish, 4 d): 3.2 mg/l

**Aquatic Invertebrates****Specified substance(s)**

ZnDTP NOEC (Water Flea, 21 d): 0.4 mg/l

phenolic antioxidant NOEC (Water Flea, 21 d): > 0.39 mg/l

---

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

---

**Toxicity to Aquatic Plants****Specified substance(s)**

Dilithium azelate	EC 50 (Alga, 72 h): 100 mg/l (OECD 201)
ZnDTP	EC 50 (Alga, 72 h): 410 mg/l NOEC (Alga, 72 h): 220 mg/l
Amine aromatic , alkylated	EC 50 (72 h): > 100 mg/l (OECD 201)

**12.2 Persistence and Degradability****Biodegradation****Product:**

Not applicable for mixtures

**Specified substance(s)**

Dilithium azelate	(OECD 301D) Inherently biodegradable
ZnDTP	5 % (28 d, OECD 301B) Not readily degradable.
carboxylic acid zinc salt	29 % (28 d, OECD 301B) Not easily biodegradable
Zn-Octoate	70 % (28 d, OECD 301D) Readily biodegradable
phenolic antioxidant	30 % (OECD 302C) Not readily degradable.
Amine aromatic , alkylated	Not readily degradable.

**12.3 Bioaccumulative potential****Product:**

Not applicable for mixtures

**Specified substance(s)**

phenolic antioxidant	May be accumulated in organism
----------------------	--------------------------------

**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:**

Harmful to aquatic life with long lasting effects.

<b>13 Disposal considerations</b>
-----------------------------------

**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.

---

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

---

**14 TRANSPORT INFORMATION****DOT**

Not regulated.

**TDG**

Not regulated.

**IMDG - International Maritime Dangerous Goods Code**

Not regulated.

**IATA**

Not regulated.

**15 REGULATORY INFORMATION****US Federal Regulations****US State Regulations****US. California Proposition 65**

WARNING! This product can expose you to chemicals including

DIETHANOLAMINE	which is [are] known to the State of California to cause cancer.
----------------	--

For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).**Inventory Status**

DSL	On or in compliance with the inventory
TSCA	On or in compliance with the inventory
NDSL	Not 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.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H361	Suspected of damaging fertility or the unborn child.
H361d	Suspected of damaging the unborn child.
H361f	Suspected of damaging fertility.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

**Revision Date:** 21.04.2023

---

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

---

**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.