

# Renolit LX P LT

## Safety Data Sheet

According to SS 586 Part 3 (2022)  
Issue date: 14.07.2025

Revision date: 14.07.2025

Supersedes:

Version: 1.0

### SECTION 1: Identification

#### 1.1. Product identifier

Trade name	Renolit LX P LT
Product code	BU ET&A
Product form	Mixture

#### 1.2. Other means of identification

No additional information available

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

Recommended use	Lubricant
Restrictions on use	For professional use only

#### 1.4. Supplier's details

##### Supplier

FUCHS LUBRICANTS GERMANY GmbH  
Friesenheimer Str. 19 Mannheim Germany 68169  
T +49 621 3701-0  
[produktsicherheit-FLG@fuchs.com](mailto:produktsicherheit-FLG@fuchs.com)

##### Department issuing data specification sheet

Hilti AG  
Feldkircherstraße 100 Schaan Liechtenstein 9494  
T +423 234 2111  
[product.compliance-power.tools@hilti.com](mailto:product.compliance-power.tools@hilti.com)

#### 1.5. Emergency phone number

Emergency number	GBK GmbH Global Regulatory Compliance +49 (0)6132-84463
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### SECTION 2: Hazard identification

#### 2.1. Classification of the substance or mixture

Health hazards	Skin sensitisation, Category 1
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#### 2.2. GHS label elements, including precautionary statements

##### Hazard pictograms (GHS SG)



##### Signal word (GHS SG)

Warning

##### Hazard statements (GHS SG)

H317 : May cause an allergic skin reaction

##### Precautionary statements

##### Prevention

P280 : Wear protective gloves, protective clothing, eye protection, face protection.

##### Response

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

#### 2.3. Other hazards which do not result in classification

No additional information available

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

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### 3.2. Mixtures

Name	Synonyms	Concentration (%)	Formula	Product identifier	GHS SG classification
organic polysulphide	di-tert-dodecyl polysulfide / di-tertiary-dodecyl polysulfide / Polysulfides, di-tert-dodecyl / sulfides, tert-dodecyl- / TDPS / tertiary-dodecyl polysulfide	1 – 5	(C <sub>12</sub> H <sub>25</sub> ) <sub>2</sub> (S) n n=1-5	CAS-No.: 68425-15-0 EC-No.: 270-335-7	Flam. Liq. Not classified Acute Tox. Not classified (Dermal) Skin Sens. 1B, H317
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	-	0.1 – 1	C <sub>12</sub> H <sub>11</sub> N · C 8H <sub>16</sub>	CAS-No.: 68411-46-1	Repr. 2, H361 Aquatic Acute Not classified Aquatic Chronic Not classified

## SECTION 4: First-aid measures

### 4.1. Description of necessary first aid measures

First-aid measures general	Take off immediately all contaminated clothing.
Inhalation	Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. If experiencing respiratory symptoms: Call a poison center or a doctor.
Skin contact	Take off immediately all contaminated clothing and wash it before reuse. Wash skin with mild soap and water. If skin irritation or rash occurs: Get medical advice/attention.
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persists.
Ingestion	Rinse mouth. Do NOT induce vomiting. Get medical advice/attention.

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

Symptoms/effects	Symptoms may be delayed.
Symptoms/effects after skin contact	May cause an allergic skin reaction.

### 4.3. Indication of immediate medical attention and special treatment needed, if necessary

Other medical advice or treatment	Treat symptomatically.
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## SECTION 5: Fire-fighting measures

### 5.1. Suitable extinguishing media

Suitable extinguishing media	Carbon dioxide. Dry powder. Alcohol-resistant foam. Water spray.
Unsuitable extinguishing media	Do not use a heavy water stream.

### 5.2. Specific hazards arising from the chemical

Explosion hazard	No direct explosion hazard.
Reactivity in case of fire	Decomposition products may be a hazard to health.
Hazardous decomposition products in case of fire	Carbon dioxide. Carbon monoxide.

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### 5.3. Special protective actions for fire fighters

Firefighting instructions	Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	Do not enter fire area without proper protective equipment, including respiratory protection. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures	Spilled material may present a slipping hazard.
<b>6.1.1. For non-emergency personnel</b>	
Protective equipment	Wear recommended personal protective equipment.
Emergency procedures	Ventilate spillage area. Evacuate unnecessary personnel. Avoid contact with skin and eyes.
<b>6.1.2. For emergency responders</b>	
Protective equipment	Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	Ventilate area. Evacuate unnecessary personnel. Stop leak if safe to do so.

### 6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

For containment	Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.
Methods for cleaning up	Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
Other information	Dispose of materials or solid residues at an authorized site.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling	Ensure good ventilation of the work station. Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Do not breathe vapours, spray. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.
Hygiene measures	Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures	Keep in a cool, well-ventilated place away from heat.
Storage conditions	Keep cool. Protect from sunlight. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container closed when not in use. Keep only in original container.
Incompatible materials	Strong acids. Strong bases. Strong oxidizing agents.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters/Occupational exposure limits

No additional information available

### 8.2. Appropriate engineering control measures

Appropriate engineering controls	Ensure good ventilation of the work station.
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### 8.3. Individual protection measures, such as personal protective equipment (PPE)

#### Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection

Avoid repeated or prolonged skin contact. Wear protective gloves. Nitrile rubber gloves

Eye protection

Chemical goggles or safety glasses

Skin and body protection

Wear suitable protective clothing

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment

#### Personal protective equipment symbol(s)



Environmental exposure controls

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

Physical state	Solid
Appearance	Pasty.
Colour	Yellow
Odour	characteristic
Odour threshold	No data available
pH	Not available
Melting point	Not available
Freezing point	Not available
Initial boiling point and boiling range	Not available
Flash point	Not available
Evaporation rate	Not available
Flammability	Not available
Explosive limits	Not available
Vapour pressure	Not available
Relative vapour density at 20°C	Not available
Density	0.9 g/cm <sup>3</sup> (20 °C)
Relative density	Not available
Solubility	Material insoluble in water.
Partition coefficient n-octanol/water (Log Kow)	Not available
Partition coefficient n-octanol/water (Log Pow)	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity, kinematic	Not available
Particle size	Not available
Particle size distribution	Not available
Particle shape	Not available
Particle aspect ratio	Not available
Particle specific surface area	Not available

### 9.2. Other information

No additional information available

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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

#### 10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents.

#### 10.6. Hazardous decomposition products

Thermal decomposition generates : carbon oxides. Toxic gases. Toxic vapours.

### SECTION 11: Toxicological information

#### 11.1. Acute toxicity

Acute toxicity (oral)	Not classified
Acute toxicity (dermal)	Not classified
Acute toxicity (inhalation)	Not classified

organic polysulphide (68425-15-0)	
LD50 dermal rat	> 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))
Skin corrosion or irritation	Not classified
Serious eye damage or irritation	Not classified
Respiratory or skin sensitisation	May cause an allergic skin reaction.
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
STOT-single exposure	Not classified
STOT-repeated exposure	Not classified
Aspiration hazard	Not classified

Renolit LX P LT	
Density	0.9 g/cm <sup>3</sup> (20 °C)

Potential adverse human health effects and symptoms      Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general	The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute)	Not classified
Hazardous to the aquatic environment, long-term (chronic)	Not classified
Other information	Avoid release to the environment.

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organic polysulphide (68425-15-0)	
Partition coefficient n-octanol/water (Log Pow)	> 6.2 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 22 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	8.5 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value, GLP)

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene (68411-46-1)	
LC50 - Fish [1]	> 100 mg/l
LC50 - Other aquatic organisms [1]	> 100 mg/l
Bioconcentration factor (BCF REACH)	411

### 12.2. Persistence and degradability

Renolit LX P LT	
Persistence and degradability	No additional information available.

organic polysulphide (68425-15-0)	
Persistence and degradability	Not readily biodegradable in water.

### 12.3. Bioaccumulative potential

Renolit LX P LT	
Bioaccumulative potential	Not established.

organic polysulphide (68425-15-0)	
Partition coefficient n-octanol/water (Log Pow)	> 6.2 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 22 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	8.5 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value, GLP)
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5).

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene (68411-46-1)	
Bioconcentration factor (BCF REACH)	411

### 12.4. Mobility in soil

Renolit LX P LT	
Mobility in soil	No additional information available

organic polysulphide (68425-15-0)	
Surface tension	Not applicable, OECD 115: Surface Tension of Aqueous Solutions
Partition coefficient n-octanol/water (Log Pow)	> 6.2 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 22 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	8.5 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value, GLP)
Ecology - soil	Adsorbs into the soil.

### 12.5. Other adverse effects

Ozone	Not classified
Other adverse effects	No additional information available

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### SECTION 13: Disposal considerations

Waste treatment methods	Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	Dispose in a safe manner in accordance with local/national regulations.
Additional information	Do not re-use empty containers.

### SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / RID /

ADR	IMDG	IATA	RID
<b>14.1. UN number or ID number</b>			
Not regulated	Not regulated	Not regulated	Not regulated
<b>14.2. UN proper shipping name</b>			
Not regulated	Not regulated	Not regulated	Not regulated
<b>14.3. Transport hazard class(es)</b>			
Not regulated	Not regulated	Not regulated	Not regulated
<b>14.4. Packing group</b>			
Not regulated	Not regulated	Not regulated	Not regulated
<b>14.5. Environmental hazards</b>			
Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available			

#### 14.6. Special precautions for user

##### Overland transport

Not regulated

##### Transport by sea

Not regulated

##### Air transport

Not regulated

##### Rail transport

Not regulated

#### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

### SECTION 15: Regulatory information

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

Regulation	Component / Mixture
Workplace Safety and Health Act & Workplace Safety and Health (General Provisions) Regulations	Applicable
Arms and Explosives Act	Not applicable
Chemical Weapons Prohibition Act	Not applicable

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Regulation	Component / Mixture
Environmental Protection and Management (Air Impurities) Regulations	
Environmental Protection and Management Act (Hazardous Substances)	
Environmental Public Health (Quality of Piped Drinking Water) Regulations	
Fire Safety Act/Fire Safety (Petroleum and Flammable Materials) Regulations	
Maritime and Port Authority of Singapore (Dangerous, Petroleum and Explosives) Regulations	
Misuse of Drugs Act	
Poisons Act	
Poisons Rules	
Hazardous waste (Control of export, import and transit) Act	
Strategic goods (Control) Act	

### 15.2. International regulations

No additional information available

## SECTION 16: Other information

Issue date	14/07/2025
Revision date	14/07/2025
Abbreviations and acronyms	<p>ACGIH - American Conference of Government Industrial Hygienists</p> <p>ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways</p> <p>ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road</p> <p>ATE - Acute Toxicity Estimate</p> <p>BCF - Bioconcentration factor</p> <p>BLV - Biological limit value</p> <p>BOD - Biochemical oxygen demand (BOD)</p> <p>CAS-No. - Chemical Abstract Service number</p> <p>CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008</p> <p>COD - Chemical oxygen demand (COD)</p> <p>CSA - Chemical safety assessment</p> <p>DMEL - Derived Minimal Effect level</p> <p>DNEL - Derived-No Effect Level</p> <p>EC-No. - European Community number</p> <p>EC50 - Median effective concentration</p> <p>ED - Endocrine disruptor</p> <p>EN - European Standard</p> <p>EWC - European waste catalogue</p> <p>IARC - International Agency for Research on Cancer</p> <p>IATA - International Air Transport Association</p> <p>IMDG - International Maritime Dangerous Goods</p> <p>LC50 - Median lethal concentration</p> <p>LD50 - Median lethal dose</p> <p>LOAEL - Lowest Observed Adverse Effect Level</p> <p>Log Kow - Partition coefficient n-octanol/water (Log Kow)</p>



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Log Pow - Partition coefficient n-octanol/water (Log Pow)  
MAK - maximum workplace concentration  
NOAEC - No-Observed Adverse Effect Concentration  
NOAEL - No-Observed Adverse Effect Level  
NOEC - No-Observed Effect Concentration  
N.O.S. - Not Otherwise Specified  
OECD - Organisation for Economic Co-operation and Development  
OEL - Occupational Exposure Limit  
OSHA - Occupational Safety Health Administration  
PBT - Persistent Bioaccumulative Toxic  
PNEC - Predicted No-Effect Concentration  
PPE - Personal protection equipment  
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail  
SDS - Safety Data Sheet  
STP - Sewage treatment plant  
TF - Technical function  
ThOD - Theoretical oxygen demand (ThOD)  
TLM - Median Tolerance Limit  
TWA - Time Weighted Average  
VOC - Volatile Organic Compounds  
vPvB - Very Persistent and Very Bioaccumulative  
UFI - Unique Formula Identifier  
None.

### Other information

SDS\_SG\_Hilti

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.