

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

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

1.1 Product identifier

Product name: RENOLIT LX-EP 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 LUBRICANTS (UK) PLC.
New Century Street
ST1 5HU Hanley
Telephone: +44 (0) 1782 203700

Contact Person: Product Safety department
E-mail: product.safety@fuchs.com
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1.4 Emergency telephone number: UK NHS: Dial 111

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has been classified and labelled as hazardous according to regulation GB-CLP.

Classification according to GB-CLP.

Health Hazards

Skin sensitizer Category 1 H317: May cause an allergic skin reaction.

Hazard summary

Physical Hazards: No data available.

2.2 Label Elements

Contains: carboxylic acid zinc salt



Signal Words: Warning

Product name: RENOLIT LX-EP 2

Hazard Statement(s): 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: 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 solvent refined mineral oil.

Chemical name	Identifier	Concentration *	UK-REACH Registration No.	Notes
Dilithium azelate	EINECS: 254-184-4	1,00% - <5,00%		
Potassium salt, containing boron	EC: 701-296-0	1,00% - <3,00%		
carboxylic acid zinc salt	EINECS: 282-762-6	1,00% - <5,00%		
Amine aromatic , alkylated	EINECS: 270-128-1	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	EINECS: 254-184-4	GBCLP: Acute Tox. 4;H302
Potassium salt, containing boron	EC: 701-296-0	GBCLP: , Repr. 2;H361
carboxylic acid zinc salt	EINECS: 282-762-6	GBCLP: Aquatic Chronic 3;H412, Skin Sens. 1;H317, Eye Irrit. 2;H319
Amine aromatic , alkylated	EINECS: 270-128-1	GBCLP: Repr. 2;H361f, Aquatic Chronic 3;H412

GB-CLP

specific concentration limit

Chemical name	Identifier	specific concentration limit	Hazard class	Hazard Category	Hazard statements
Potassium salt, containing boron	EC: 701-296-0	>= 4,5 %	Toxic to reproduction	2	H361

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

Product name: RENOLIT LX-EP 2

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 Nota L/ Nota N of Annex VI of Regulation GB-CLP.

SECTION 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. May cause skin and eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed Symptoms may be delayed. Get medical attention if symptoms occur.

SECTION 5: Firefighting measures**5.1 Extinguishing media**

Suitable extinguishing media: CO₂, 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.

Product name: RENOLIT LX-EP 2

SECTION 6: Accidental release measures

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| 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. 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:

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| 7.1 Precautions for safe handling: | Provide adequate ventilation. 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 |

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

Product name: RENOLIT LX-EP 2

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.
Eyeface 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 butyl rubber (NBR). Min. Breakthrough time: ≥ 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

9.1 Information on basic physical and chemical properties

Appearance

Physical state:	solid
Form:	Paste
Color:	Light brown
Odor:	Characteristic
pH:	substance/mixture is non-soluble (in water)
Drop Point:	> 250 °C (IP 396)
Boiling Point:	Not applicable
Flash Point:	Not applicable
Evaporation Rate:	Not applicable for mixtures
Flammability (solid, gas):	not determined
Explosion Limit - Upper (%):	Not applicable for mixtures
Explosion Limit - Lower (%):	Not applicable for mixtures

Product name: RENOLIT LX-EP 2

Vapor pressure:	Not applicable for mixtures
Relative vapor density:	Not applicable for mixtures
Density:	0,95 g/cm ³ (15 °C)
Solubility(ies)	
Solubility in Water:	Insoluble in water
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	Not applicable for mixtures
Auto-ignition temperature:	not determined
Decomposition Temperature:	not determined
NLGI:	2
Explosive properties:	Value not relevant for classification
Oxidizing properties:	Value not relevant for classification
Particle characteristics:	Study technically not feasible
9.2 Other information	No data available.

SECTION 10: Stability and reactivity

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

SECTION 11: Toxicological information**Information on likely routes of exposure**

Inhalation:	No data available.
Ingestion:	No data available.
Skin Contact:	May cause an allergic skin reaction.
Eye contact:	No data available.

11.1 Information on toxicological effects**Acute toxicity****Oral**

Product:	ATEmix: 57.316 mg/kg
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Product name: RENOLIT LX-EP 2

Specified substance(s)

Dilithium azelate LD 50 (Rat): 2.000 mg/kg (OECD 420)

Amine aromatic , alkylated LD 50 (Rat): > 5.000 mg/kg (OECD 401)

Dermal

Product: Not classified for acute toxicity based on available data.

Inhalation

Product: Not classified for acute toxicity based on available data.

Specified substance(s)

carboxylic acid zinc salt LC 50 (Rat, 4 h): > 42 mg/l

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.

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.

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.

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.

Reproductive toxicity

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

Product name: RENOLIT LX-EP 2

Specified substance(s)

Amine aromatic , alkylated oral (Rat, OECD 421), Suspected of damaging fertility.

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

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)

carboxylic acid zinc salt 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)

carboxylic acid zinc salt EC 50 (Water Flea, 48 h): > 100 mg/l (OECD 202)

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

Chronic Toxicity

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

Toxicity to Aquatic Plants

Specified substance(s)

Dilithium azelate EC 50 (Alga, 72 h): 100 mg/l (OECD 201)

Amine aromatic , alkylated EC 50 (72 h): > 100 mg/l (OECD 201)

12.2 Persistence and Degradability

Biodegradation

Product name: RENOLIT LX-EP 2

Product:	Not applicable for mixtures
Specified substance(s) Dilithium azelate	(OECD 301D) Inherently biodegradable
carboxylic acid zinc salt	(OECD 301B) Not readily degradable.
Amine aromatic , alkylated	Not readily degradable.

12.3 Bioaccumulative potential

Product:	Not applicable for mixtures
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12.4 Mobility in soil:

Product:	Not applicable for mixtures
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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.

Water Hazard Class (WGK):

WGK 1: slightly water-endangering.

SECTION 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.

List of Waste (LoW) Codes

Unused product: 12 01 12*: spent waxes and fats

SECTION 14: Transport information**ADR/RID**

14.1 UN number or ID 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:	—

Product name: RENOLIT LX-EP 2

IMDG

- 14.1 UN number or ID 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 or ID 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:

GB Regulations

The Ozone-Depleting Substances and Fluorinated Greenhouse Gases (Amendment etc.) (EU Exit) Regulations 2019:
none

The Persistent Organic Pollutants (Amendment) (EU Exit) Regulations 2020:
none

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

DIRECTIVE Control of Major Accident Hazards Regulations 2015:

Not applicable

SECTION 16: Other information

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

Product name: RENOLIT LX-EP 2

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.
H361	Suspected of damaging fertility or the unborn child.
H361f	Suspected of damaging fertility.
H412	Harmful to aquatic life with long lasting effects.

Other information:

The classification complies with the current GB lists; however, it has been supplemented with expert literature information and information provided by/about our company. The following evaluation methods were used: On the basis of test data; Calculation Method; Bridging Principle "Substantially similar mixtures"; Expert Judgement

Revision Date:

19.07.2024

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.