

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 HI-TEMP 100

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
Telephone: +44 (0) 1782 203700

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.

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

Hazard Statement(s): H412: Harmful to aquatic life with long lasting effects.

Product name: RENOLIT HI-TEMP 100

Precautionary Statements

Prevention: P273: Avoid release to the environment.

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.

Supplemental label information

EUH208: Contains: Organic polysulphide, carboxylic acid zinc salt. May produce an allergic reaction.

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 *	UK-REACH Registration No.	Notes
dilithium sebacate	EINECS: 242-999-8	1,00% - <5,00%		
ZnDTP	EINECS: 224-235-5	1,00% - <2,50%		
Organic polysulphide	EINECS: 270-335-7	0,10% - <1,00%		
carboxylic acid zinc salt	EINECS: 282-762-6	0,10% - <1,00%		
phenolic antioxidant	EINECS: 204-881-4	0,25% - <1,00%		
Zn-Octoate	EINECS: 286-272-3	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 sebacate	EINECS: 242-999-8	GBCLP: Acute Tox. 4;H302
ZnDTP	EINECS: 224-235-5	GBCLP: Eye Dam. 1;H318, Aquatic Chronic 2;H411
Organic polysulphide	EINECS: 270-335-7	GBCLP: Skin Sens. 1B;H317
carboxylic acid zinc salt	EINECS: 282-762-6	GBCLP: Skin Sens. 1;H317, Aquatic Chronic 3;H412
phenolic antioxidant	EINECS: 204-881-4	GBCLP: Aquatic Acute 1;H400, Aquatic Chronic 1;H410; M-Factor (aquatic acute): 1; M-Factor (aquatic chronic): 1
Zn-Octoate	EINECS: 286-272-3	GBCLP: Repr. 2;H361d, Eye Irrit. 2;H319, Aquatic Chronic 3;H412

GB-CLP

Product name: RENOLIT HI-TEMP 100

specific concentration limit

Chemical name	Identifier	specific concentration limit	Hazard class	Hazard Category	Hazard state-ments
ZnDTP	EINECS: 224-235-5	> 50 % > 50 %	Serious eye damage Serious eye irritation	1 2	H318 H319

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: 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

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.

Product name: RENOLIT HI-TEMP 100

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

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| 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 |
| 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 HI-TEMP 100

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:	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 beige
Odor:	Characteristic
pH:	substance/mixture is non-soluble (in water)
Drop Point:	240 °C (IP 396)
Boiling Point:	not determined
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
Vapor pressure:	Not applicable for mixtures

Product name: RENOLIT HI-TEMP 100

Relative vapor density:	Not applicable for mixtures
Density:	0,90 g/ml (25 °C) (DIN 51757)
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: 45.381 mg/kg
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Product name: RENOLIT HI-TEMP 100

Specified substance(s)

dilithium sebacate LD 50 (Rat): 2.000 mg/kg (OECD 420)

ZnDTP LD 50 (Rat): 4.358 mg/kg

phenolic antioxidant LD 50 (Rat): > 2.930 mg/kg (OECD 401)

Dermal**Product:** Not classified for acute toxicity based on available data.**Specified substance(s)**

ZnDTP LD 50 (Rabbit): > 5.000 mg/kg (OECD 402)

phenolic antioxidant LD 50 (Rat): > 5.000 mg/kg (OECD 402)

Inhalation**Product:** Not classified for acute toxicity based on available data.**Skin Corrosion/Irritation:****Product:** Based on available data, the classification criteria are not met.**Specified substance(s)**dilithium sebacate
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.**Serious Eye Damage/Eye Irritation:****Product:** Based on available data, the classification criteria are not met.**Specified substance(s)**dilithium sebacate
OECD 405 (Rabbit):
Based on available data, the classification criteria are not met.ZnDTP
(Rabbit):
Slightly irritating.**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)**dilithium sebacate
, 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

Product name: RENOLIT HI-TEMP 100

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)

dilithium sebacate LC 50 (Fish, 96 h): 100 mg/l (OECD 203)
 ZnDTP LC 50 (Fish, 96 h): 4,4 mg/l (OECD 203)
 Organic polysulphide LC 50 (Fish, 96 h): > 100 mg/l (OECD 203)
 Zn-Octoate LC 50 (Fish, 96 h): 100 mg/l (OECD 203)

Aquatic Invertebrates

Specified substance(s)

dilithium sebacate 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)

Chronic Toxicity

Product: Based on available data, the classification criteria are met.

Fish

Product name: RENOLIT HI-TEMP 100

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

Toxicity to Aquatic Plants

Specified substance(s)

dilithium sebacate 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

12.2 Persistence and Degradability

Biodegradation

Product:

Not applicable for mixtures

Specified substance(s)

dilithium sebacate (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

phenolic antioxidant 30 % (OECD 302C) Not readily degradable.

Zn-Octoate 70 % (28 d, OECD 301D) Readily biodegradable

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.

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.

Product name: RENOLIT HI-TEMP 100

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

List of Waste (LoW) Codes

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: —

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

Product name: RENOLIT HI-TEMP 100

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

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.

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.
H361d	Suspected of damaging the unborn child.
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.

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:

11.03.2024

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.