



SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended.

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

1.1 Product identifier

Product name: RENOLIT L 20

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

SECTION 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.

Classification according to Directive 67/548/EEC or 1999/45/EC as amended

R52/53

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Hazard summary

Physical 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.

Environmental hazards: This product is water polluting; see item 12.

2.2 Label elements

R52/53

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S61

Avoid release to the environment. Refer to special instructions/safety data sheets.

2.3 Other hazards: No data available.

SECTION 3: Composition/information on ingredients

3.2 Mixtures



Product name: RENOLIT L 20

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

| Chemical name | Concentration * | Identifier | REACH Registration No. | Notes |
|---------------|----------------------|------------|---------------------------|-------|
| ZnDTP | <2,50% | 272-028-3 | | |
| Copper | >=5,00 - <=10,00% | 231-159-6 | | # |

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

This substance has workplace exposure limit(s).

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

Classification

| Chemical name | Classification | |
|---------------|----------------|-------------------|
| ZnDTP | DSD: | Xi; R36 N; R51/53 |
| | CLP: | None |
| Copper | DSD: | N; R50 |
| | CLP: | None |

DSD: Directive 67/548/EEC.

CLP: Regulation No. 1272/2008.

The full text for all R- and H-phrases is displayed in section 16.

SECTION 4: First aid measures

General: Change clothes and shoes contaminated or soaked by the product. Never put rags contaminated by the product into cloth-pockets.

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. The product is not skin irritating.

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

Hazards: No data available.

Treatment: Get medical attention if symptoms occur.

SECTION 5: Firefighting measures



Product name: RENOLIT L 20

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 tensides 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: No data available.

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. Stop the flow of material, if this is without risk. Dispose of the material collected according to regulations.

6.4 Reference to other sections: See Section 8 of the MSDS 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. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

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 L 20

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

| Chemical name | Type | Exposure Limit values | Source |
|---|------|-----------------------|---|
| Copper - Inhalable dusts and mists. - as Cu | TWA | 1 mg/m ³ | UK. EH40 Workplace Exposure Limits (WELs) (12 2011) |
| Copper - Inhalable dusts and mists. - as Cu | STEL | 2 mg/m ³ | UK. EH40 Workplace Exposure Limits (WELs) (12 2011) |
| Copper - Fume. | TWA | 0,2 mg/m ³ | UK. EH40 Workplace Exposure Limits (WELs) (12 2011) |

8.2 Exposure controls

Appropriate engineering controls: No data available.

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: Wear goggles/face shield.

Skin protection

Hand protection: Nitrile butyl rubber (NBR). 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: In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor. Avoid breathing vapour/ aerosol.

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.

SECTION 9: Physical and chemical properties



Product name: RENOLIT L 20

9.1 Information on basic physical and chemical properties

Appearance

| | |
|---|-------------------------------|
| Physical State: | Solid |
| Form: | Paste |
| Color: | Copper colored |
| Odor: | Characteristic |
| Odor Threshold: | No data available. |
| pH: | Not applicable |
| Melting Point: | No data available. |
| Boiling Point: | Not applicable |
| Flash Point: | Not applicable |
| Evaporation Rate: | No data available. |
| Flammability (solid, gas): | No data available. |
| Flammability Limit - Upper (%)—: | No data available. |
| Flammability Limit - Lower (%)—: | No data available. |
| Vapor pressure: | No data available. |
| Vapor density (air=1): | No data available. |
| Density: | 0,9 g/cm ³ (25 °C) |
| Solubility(ies) | |
| Solubility in Water: | Insoluble in water |
| Solubility (other): | No data available. |
| Partition coefficient (n-octanol/water): | No data available. |
| Autoignition Temperature: | No data available. |
| Decomposition Temperature: | No data available. |
| Kinematic viscosity: | No data available. |
| Flow time | No data available. |
| Explosive properties: | No data available. |
| Oxidizing properties: | No data available. |
| 9.2 Other information | No data available. |

SECTION 10: Stability and reactivity

| | |
|---|---|
| 10.1 Reactivity: | Stable under normal temperature conditions and recommended use. |
| 10.2 Chemical stability: | No data available. |
| 10.3 Possibility of hazardous reactions: | None under normal conditions. |
| 10.4 Conditions to avoid: | Avoid heat or contamination. |
| 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. |



Product name: RENOLIT L 20

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute Toxicity

Oral

| | |
|-------------------------------|--------------------|
| Product: | No data available. |
| Specified substance(s) | |
| ZnDTP | No data available. |
| Copper | No data available. |

Dermal

| | |
|-------------------------------|--------------------|
| Product: | No data available. |
| Specified substance(s) | |
| ZnDTP | No data available. |
| Copper | No data available. |

Inhalation

| | |
|-------------------------------|--------------------|
| Product: | No data available. |
| Specified substance(s) | |
| ZnDTP | No data available. |
| Copper | No data available. |

Repeated dose toxicity

| | |
|-------------------------------|--------------------|
| Product: | No data available. |
| Specified substance(s) | |
| ZnDTP | No data available. |
| Copper | No data available. |

Skin corrosion/irritation:

| | |
|-------------------------------|--------------------|
| Product: | No data available. |
| Specified substance(s) | |
| ZnDTP | No data available. |
| Copper | No data available. |

Serious eye damage/eye irritation:

| | |
|-------------------------------|--------------------|
| Product: | No data available. |
| Specified substance(s) | |
| ZnDTP | No data available. |
| Copper | No data available. |

Respiratory or skin sensitization:

| | |
|-------------------------------|--------------------|
| Product: | No data available. |
| Specified substance(s) | |



Product name: RENOLIT L 20

| | |
|--------|--------------------|
| ZnDTP | No data available. |
| Copper | No data available. |

Germ cell mutagenicity

In vitro

| | |
|-----------------|--------------------|
| Product: | No data available. |
|-----------------|--------------------|

Specified substance(s)

| | |
|--------|--------------------|
| ZnDTP | No data available. |
| Copper | No data available. |

In vivo

| | |
|-----------------|--------------------|
| Product: | No data available. |
|-----------------|--------------------|

Specified substance(s)

| | |
|--------|--------------------|
| ZnDTP | No data available. |
| Copper | No data available. |

Carcinogenicity

| | |
|-----------------|--------------------|
| Product: | No data available. |
|-----------------|--------------------|

Specified substance(s)

| | |
|--------|--------------------|
| ZnDTP | No data available. |
| Copper | No data available. |

Reproductive toxicity

| | |
|-----------------|--------------------|
| Product: | No data available. |
|-----------------|--------------------|

Specified substance(s)

| | |
|--------|--------------------|
| ZnDTP | No data available. |
| Copper | No data available. |

Specific target organ toxicity - single exposure

| | |
|-----------------|--------------------|
| Product: | No data available. |
|-----------------|--------------------|

Specified substance(s)

| | |
|--------|--------------------|
| ZnDTP | No data available. |
| Copper | No data available. |

Specific target organ toxicity - repeated exposure

| | |
|-----------------|--------------------|
| Product: | No data available. |
|-----------------|--------------------|

Specified substance(s)

| | |
|--------|--------------------|
| ZnDTP | No data available. |
| Copper | No data available. |

Aspiration hazard

| | |
|-----------------|--------------------|
| Product: | No data available. |
|-----------------|--------------------|

Specified substance(s)

| | |
|--------|--------------------|
| ZnDTP | No data available. |
| Copper | No data available. |

| | |
|-------------------------------|--------------------|
| Other adverse effects: | No data available. |
|-------------------------------|--------------------|



Product name: RENOLIT L 20

SECTION 12: Ecological information

12.1 Toxicity

Acute toxicity

Fish

Product: No data available.

Specified substance(s)

ZnDTP No data available.

Copper No data available.

Aquatic invertebrates

Product: No data available.

Specified substance(s)

ZnDTP No data available.

Copper No data available.

Chronic Toxicity

Fish

Product: No data available.

Specified substance(s)

ZnDTP No data available.

Copper No data available.

Aquatic invertebrates

Product: No data available.

Specified substance(s)

ZnDTP No data available.

Copper No data available.

Toxicity to Aquatic Plants

Product: No data available.

Specified substance(s)

ZnDTP No data available.

Copper No data available.

12.2 Persistence and degradability

Biodegradation

Product: No data available.

Specified substance(s)

ZnDTP No data available.

Copper No data available.

BOD/COD ratio



Product name: RENOLIT L 20

Product No data available.

Specified substance(s)

ZnDTP No data available.

Copper No data available.

12.3 Bioaccumulative potential

Product: No data available.

Specified substance(s)

ZnDTP No data available.

Copper No data available.

12.4 Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

ZnDTP No data available.

Copper No data available.

12.5 Results of PBT and vPvB assessment: No data available.

ZnDTP No data available.

Copper No data available.

12.6 Other adverse effects: No data available.

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.

European Waste Codes 12 01 12*: spent waxes and fats

SECTION 14: Transport information

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

National Regulations

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



Product name: RENOLIT L 20

SECTION 16: Other information

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

Wording of the R-phrases and H-statements in section 2 and 3

| | |
|--------|---|
| R36 | Irritating to eyes. |
| R50 | Very toxic to aquatic organisms. |
| R51/53 | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| R52/53 | Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |

Training information: Follow training instructions when handling this material.

Revision date: 24.11.2014

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.