

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 RHF 1

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 Schmierstoffe GmbH

Friesenheimer Str. 19

68169 Mannheim

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1.4 Emergency telephone number:

+49 621 3701-1333 ODER +49 621 3701-0

effects.

EMERGENCY TELEPHONE NO. 800-255-3924

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has been classified and labelled as hazardous according to regulation (EU) 1272/2008 (CLP).

Classification according to Regulation (EC) No 1272/2008 as amended.

Health Hazards

Skin irritation

Category 2

H315: Causes skin irritation.

Serious eye irritation

Category 2

H319: Causes serious eye irritation.

Environmental Hazards

Chronic hazards to the aquatic

Category 2

H411: Toxic to aquatic life with long lasting

Hazard summary

environment

Physical Hazards:

No data available.



2.2 Label Elements



Signal Words:

Warning

Hazard Statement(s):

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H411: Toxic to aquatic life with long lasting effects.

Precautionary Statement

Prevention:

P262: Do not get in eyes, on skin, or on clothing.

P273: Avoid release to the environment.

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	Concentration *	Identifier	REACH Registration No.	Notes
Heterocyclic N-compound	1,00 - <2,50%	202-414-9	01-2119777867-13	
ZnDTP	0,00 - <1,00%	224-235-5	01-2119493635-27	
phenolic antioxidant	0.25 - <1.00%	204-881-4	01-2119565113-46	

^{*} 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	Classification		
Heterocyclic N-compound	CLP:	Skin Corr. 1B;H314, STOT RE 2;H373, Aquatic Acute 1;H400, Aquatic Chronic 1;H410, Acute Tox. 4;H302	
ZnDTP	CLP:	Eye Dam. 1;H318, Aquatic Chronic 2;H411	
phenolic antioxidant CLP: Aquatic Acute 1;H400, Aquatic Chronic 1;H410		Aquatic Acute 1;H400, Aquatic Chronic 1;H410	

CLP: Regulation No. 1272/2008.

For the wording of the listed risk phrases refer to 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 clothing pockets.

4.1 Description of first aid measures

Inhalation:

Supply fresh air; consult doctor in case of symptoms.

Eye contact:

Immediately flush with plenty of water for at least 15 minutes. If easy to do,

remove contact lenses. Get medical attention.

Skin Contact:

Immediately flush with plenty of water for at least 15 minutes while

removing contaminated clothing and shoes. Wash contaminated clothing

before reuse. Get medical attention.

Ingestion:

Call a POISON CENTER/doctor/.../if you feel unwell. Rinse mouth.

4.2 Most important symptoms and effects, both acute and

delayed:

Causes serious eye irritation. Causes skin 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

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.

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Version: 2.2



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:

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. Do not contaminate water sources or sewer.

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.

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.

Dike for later disposal. Prevent entry into waterways, sewer, basements or

confined areas. Stop the flow of material, if this is without risk.

SECTION 7: Handling and storage:

7.1 Precautions for safe handling:

Avoid contact with eyes. 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. Avoid contact with

skin.

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

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

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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 inhandling the chemicals or the mineral oil products.

Eye/face protection: Safety glasses (EN 166) recommended during refilling. Avoid contact with

eyes.

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 trough 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.

Always observe good personal hygiene measures, such as washing after Hygiene measures:

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 Odor Threshold: No data available.

:Hq not applicable

Melting Point: No data available. **Boiling Point:** not applicable Flash Point: not applicable

Evaporation Rate: No data available.



Flammability (solid, gas):

Flammability Limit - Upper (%)-:

Flammability Limit - Lower (%)-:

Vapor pressure:

Vapor density (air=1):

Density:

Solubility(ies)

Solubility in Water:

Solubility (other):

Partition coefficient (n-octanol/water):

Autoignition Temperature:

Decomposition Temperature:

NLGI:

Explosive properties: Oxidizing properties:

9.2 Other information

No data available.

0,90 g/ml (25,00 °C)

Insoluble in water

No data available.

No data available. No data available.

No data available.

1

No data available. No data available.

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.

SECTION 11: Toxicological information

Information on likely routes of exposure

Inhalation:

No data available.

Ingestion:

No data available.

Skin Contact:

Causes skin irritation.

Eye contact:

Causes eye irritation.



11.1 Information on toxicological effects

Acute toxicity

Oral

Product:

ATEmix: 71.468,93 mg/kg

Specified substance(s)

Heterocyclic N-compound

LD 50 (Rat): 1.265 mg/kg

ZnDTP

LD 50 (Rat): 4.358 mg/kg

phenolic antioxidant

LD 50 (Rat): 2.930 mg/kg

Dermal

Product:

Not classified for acute toxicity based on available data.

Specified substance(s)

Heterocyclic N-

No data available.

compound

ZnDTP

No data available.

phenolic antioxidant

LD 50 (Rat): > 5.000 mg/kg

Inhalation

Product:

Not classified for acute toxicity based on available data.

Specified substance(s)

Heterocyclic N-compound

ZnDTP

No data available. No data available.

phenolic antioxidant

No data available.

Repeated dose toxicity

Product:

No data available.

Specified substance(s)

Heterocyclic N-compound

ZnDTP

No data available. No data available.

phenolic antioxidant

(Rat, Oral, 28 d): 25 mg/kg

Skin Corrosion/Irritation:

Product:

No data available.

Specified substance(s)

Heterocyclic N-compound

No data available.

ZnDTP

(Rabbit):

phenolic antioxidant

None. (Rabbit):

Slightly irritating.



Serious Eye Damage/Eye Irritation:

Product: No data available.

Specified substance(s)

Heterocyclic N-compound

ZnDTP

(Rabbit):

1 1 3 7 1 P 1 1 1 P 1 1 1 1 7 1 7

Slightly irritating. (Rabbit):

No data available.

phenolic antioxidant

Slightly irritating.

Respiratory or Skin Sensitization:

Product:

No data available.

Specified substance(s)

Heterocyclic N-compound

ZnDTP

No data available. No data available.

phenolic antioxidant

No sensitizing effect (guinea pig); OECD 406

Germ Cell Mutagenicity

In vitro

Product:

No data available.

Specified substance(s)

Heterocyclic N-compound

ZnDTP

No data available. No data available.

phenolic antioxidant

No data available.

In vivo

Product:

No data available.

Specified substance(s)

Heterocyclic N-compound

No data available.

ZnDTP

phenolic antioxidant

No data available. No data available.

pricholic antioxidan

Carcinogenicity Product:

No data available.

Specified substance(s)

Heterocyclic N-compound

No data available.

ZnDTP

No data available. No data available.

Reproductive toxicity

phenolic antioxidant

Product:

No data available.

Specified substance(s)

Heterocyclic N-compound

No data available.

ZnDTP

No data available.

phenolic antioxidant

No data available.

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Specific Target Organ Toxicity - Single Exposure

Product:

No data available.

Specified substance(s)

Heterocyclic N-compound ZnDTP

No data available. No data available.

phenolic antioxidant

No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product:

No data available.

Specified substance(s)

Heterocyclic N-compound

No data available.

ZnDTP

No data available.

phenolic antioxidant

No data available.

Aspiration Hazard

Product:

No data available.

Specified substance(s)

Heterocyclic N-compound

No data available. No data available.

ZnDTP phenolic antioxidant

No data available.

Other Adverse Effects:

No data available.

SECTION 12: Ecological information

12.1 Toxicity

Acute toxicity

Fish

Product:

No data available.

Specified substance(s)

Heterocyclic N-compound

LC 50 (Fish, 96 h): 0,3 mg/l

ZnDTP

LC 50 (Fish, 96 h): 1,1 - 10 mg/l

phenolic antioxidant

LC 50 (Fish, 96 h): > 0,57 mg/l (OECD 203)

Aquatic Invertebrates

Product:

No data available.

Specified substance(s)

Heterocyclic N-compound EC 50 (Water Flea, 48 h): 0,136 mg/l

LC 50 (Water Flea, 24 h): 0,37 mg/l

ZnDTP

EC 50 (Water Flea, 48 h): 1,1 - 10 mg/l

phenolic antioxidant

EC 50 (Water Flea, 48 h): > 0,17 mg/l

Chronic Toxicity

Fish

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Product: No data available.

Specified substance(s)

Heterocyclic N-compound ZnDTP No data available. No data available. No data available. No data available.

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

Heterocyclic N-compound No data available. ZnDTP No data available.

phenolic antioxidant NOEC (Water Flea, 21 d): > 0,39 mg/l

Toxicity to Aquatic Plants

Product: No data available.

Specified substance(s)

Heterocyclic N-compound ZnDTP EC 50 (Alga, 72 h): 0,03 mg/l EC 50 (Alga, 72 h): > 240 mg/l EC 50 (Alga, 72 h): > 0,42 mg/l

12.2 Persistence and Degradability

Biodegradation

Product: No data available.

Specified substance(s)

Heterocyclic N-compound No data available. No data available.

phenolic antioxidant 30 %

12.3 Bioaccumulative Potential

Product: No data available.

Specified substance(s)

Heterocyclic N-compound No data available. ZnDTP No data available.

phenolic antioxidant May be accumulated in organism

12.4 Mobility in Soil: No data available.

Known or predicted distribution to environmental compartments

Heterocyclic N-compound ZnDTP No data available. No data available. Phenolic antioxidant No data available.

12.5 Results of PBT and vPvB

assessment:

No data available.

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Heterocyclic N-compound

ZnDTP

No data available. No data available.

phenolic antioxidant

No data available.

12.6 Other Adverse Effects:

Toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

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

European Waste Codes

12 01 12*: spent waxes and fats

SECTION 14: Transport information

ADR/RID

14.1 UN Number:

UN 3077

14.2 UN Proper Shipping Name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.(Imidazoline derivative)

14.3 Transport Hazard Class(es)

Class:

9 9

Label(s):

90

Hazard No. (ADR): Tunnel restriction code:

(E)

14.4 Packing Group:

111

14.5 Environmental hazards:

Dangerous for the environment

14.6 Special precautions for user:

ADN

14.1 UN Number:

UN 3077

14.2 UN Proper Shipping Name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.(Imidazoline derivative)

14.3 Transport Hazard Class(es)

Class:

9

Label(s):

9

14.3 Packing Group:

III

14.5 Environmental hazards:

Dangerous for the environment

14.6 Special precautions for user:



IMDG

14.1 UN Number: UN 3077

14.2 UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.(Imidazoline derivative)

14.3 Transport Hazard Class(es)

Class: 9 Label(s): 9

EmS No.: F-A, S-F

14.3 Packing Group:

14.5 Environmental hazards: Marine pollutant

14.6 Special precautions for user:

IATA

14.1 UN Number: UN 3077

14.2 Proper Shipping Name: Environmentally hazardous substance, solid, n.o.s. (Imidazoline

derivative)

14.3 Transport Hazard Class(es):

Class: 9
Label(s): 9MI

14.4 Packing Group: III

14.5 Environmental hazards: Dangerous for the environment

14.6 Special precautions for user: -

Amounts up to 5kg or 5 L are not regulated, (ADR/RID SV 375, IMDG 2.10.2.7, IATA SP A197)

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.:

EU Regulations

Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer: none

Regulation (EC) No. 850/2004 on persistent organic pollutants: none

15.2 Chemical safety assessment:

No Chemical Safety Assessment has been carried out.

assessment.

SECTION 16: Other information

Revision Information:

Vertical lines in the margin indicate an amendment.