

# SAFETY DATA SHEET

acc.to ISO/DIS 11014 for USA

#### PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

Product name: RENOLIT HI-TEMP 220

Other means of identification: For further information, please refer to section 9 of the SDS.

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 Fuchs Schmierstoffe GmbH

Friesenheimer Str. 19 68169 Mannheim

Telephone: +49 621 3701-0 (ZENTRALE)

Fax: +49 621 3701-570

DISTRIBUTOR INFORMATION

**US** Distributor

Fuchs Lubricants Co. 17050 Lathrop Avenue

Harvey, IL 60426 (708) 333-8900

(800) 255-3924 24 hrs Emergency

Contact Person: Fuchs Schmierstoffe GmbH Abteilung Produktsicherheit

Telephone: +49 621 3701-1333 Fax: +49 621 3701-7303

E-mail: produktsicherheit-FS@fuchs.com

**1.4 US contact telephone :** 708-333-8900 **Emergency telephone:** 800-255-3924

## 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.

#### **Environmental Hazards**

Chronic hazards to the aquatic environment Category 3

**Hazard summary** 

Physical Hazards: No data available.

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#### 2.2 Label Elements

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

**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.

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.

Unknown toxicity: Due to information available product does not contain any ingredients of

unknown toxicity.

#### **COMPOSITION / INFORMATION ON INGREDIENTS** 3

General information: Lubricating grease: Thickener system and additives in synthetic base oil.

Chemical name	Identifier	Concentration *	Notes
ZnDTP	4259-15-8	1.00 - 5.00%	
Zn compound	12001-85-3	0.50 - 1.50%	
phenolic antioxidant	128-37-0	0.50 - 1.50%	

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

## Classification

Chemical name	Identifier	Classification
ZnDTP	4259-15-8	Eye Dam. 1;H318, Aquatic Chronic 2;H411
Zn compound		Skin Irrit. 2;H315, Aquatic Acute 1;H400, Aquatic Chronic 1;H410
phenolic antioxidant	128-37-0	Aquatic Acute 1;H400, Aquatic Chronic 1;H410

#### 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.

Promptly wash eyes with plenty of water while lifting the eye lids. Eye contact:

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PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.



**Skin Contact:** Wash with soap and water.

Ingestion: Rinse mouth thoroughly.

4.2 Most important symptoms and effects, both acute and delayed:

4.3 Indication of any immediate medical attention and special treatment needed

Get medical attention if symptoms occur.

May cause skin and eye irritation.

# **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 inaccordance 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.

### **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. 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.

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## SECTION 7: Handling and storage:

7.1 Precautions for safe

handling:

Provide adequate ventilation. Observe good industrial hygiene practices. 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

# **EXPOSURE CONTROLS / PERSONAL PROTECTION**

## **8.1.Exposure Limits**

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Chemical name	Туре	Exposure Limit Values	Source
Base oil, low viscous - Inhalable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values (03 2014)
Base oil, low viscous	PEL	500 ppm 2,000 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Base oil, low viscous - Mist.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Base oil, low viscous	TWA	400 ppm 1,600 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Base oil, low viscous - Mist.	TWA	5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
phenolic antioxidant	TWA	10 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
phenolic antioxidant - Inhalable fraction and vapor.	TWA	2 mg/m3	US. ACGIH Threshold Limit Values (02 2012)
Base oil, low viscous - Inhalable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values (03 2014)
Base oil, low viscous	PEL	500 ppm 2,000 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Base oil, low viscous - Mist.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Base oil, low viscous	TWA	400 ppm 1,600 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Base oil, low viscous - Mist.	TWA	5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)

# 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.

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#### 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.

Skin protection

**Hand Protection:** Material: Nitrile-butadiene rubber (NBR).

Min. Breakthrough time: >= 480 min

Recommended thickness of the material: >= 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: 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.

#### PHYSICAL AND CHEMICAL PROPERTIES

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

Physical state: solid
Form: Paste
Color: Light beige
Odor: Characteristic

Odor Threshold: Not applicable for mixtures

pH: Not applicable

Melting Point: Not applicable for mixtures

**Boiling Point:** Value not relevant for classification

Flash Point: Not applicable

**Evaporation Rate:** Not applicable for mixtures

Flammability (solid, gas): Value not relevant for classification

Flammability Limit - Upper (%)-: Not applicable for mixtures

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Flammability Limit - Lower (%)—: Not applicable for mixtures

Vapor pressure: Not applicable for mixtures

Vapor density (air=1): Not applicable for mixtures

**Density:** 0.90 g/ml (25.00 °C)

Solubility(ies)

Solubility in Water: Insoluble in water Solubility (other): No data available.

Partition coefficient (n-octanol/water): Not applicable for mixtures

Autoignition Temperature: Value not relevant for classification

Decomposition Temperature: Value not relevant for classification

NLGI: 2

**Explosive properties:**Value not relevant for classification **Oxidizing properties:**Value not relevant for classification

**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.

# 11 TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

**Inhalation:** No data available.

**Ingestion:** No data available.

**Skin Contact:** No data available.

**Eye contact:** No data available.

**Acute toxicity** 

Oral

**Product:** 

ATEmix: 122,045.2 mg/kg

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Specified substance(s)

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)

ŽnDTP 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)

**ZnDTP** (Rabbit): None.

Serious Eye Damage/Eye Irritation:

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

Specified substance(s)

**ZnDTP** (Rabbit): Slightly irritating.

**Respiratory or Skin Sensitization:** 

Product: Skin sensitizer: Based on available data, the classification criteria are not

Respiratory sensitizer: Based on available data, the classification criteria

are not met.

Specified substance(s)

**ZnDTP** , OECD 406-1 (Guinea Pig)Not a skin sensitizer.

phenolic antioxidant No sensitizing effect (guinea pig); OECD 406

**Germ Cell Mutagenicity** 

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

Carcinogenicity

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

IARC: IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

NTP: US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

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OSHASP: US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

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.

## 12 ECOLOGICAL INFORMATION

#### 12.1 Toxicity

**Acute toxicity** 

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

**Fish** 

Specified substance(s)

ZnDTP LC 50 (Fish, 96 h): 4.4 mg/l (OECD 203)

Aquatic Invertebrates Specified substance(s)

ZnDTP EC 50 (Water Flea, 48 h): 75 mg/l (OECD 202)

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

Fish

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)

ZnDTP EC 50 (Alga, 72 h): 410 mg/l

#### 12.2 Persistence and Degradability

**Biodegradation** 

**Product:** Not applicable for mixtures

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Specified substance(s)

ZnDTP 5 % (28 d, OECD 301B)

phenolic antioxidant 30 % (OECD 302C)

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.

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

laws.

## 14 TRANSPORT INFORMATION

DOT

Not regulated.

**IMDG - International Maritime Dangerous Goods Code** 

Not regulated.

**IATA** 

Not regulated.

# 15 REGULATORY INFORMATION

## **US Federal Regulations**

#### **US State Regulations**

**Inventory Status** 

NDSL	Not in compliance with the inventory.
TSCA	On or in compliance with the inventory
DSL	On or in compliance with the inventory

## 16 OTHER INFORMATION

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

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# Wording of the H-statements in section 2 and 3

H315 Causes skin irritation.
H318 Causes serious eye damage.
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.

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**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

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