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# 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: RENOLIN ZAF D 22 HT

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Hydraulic fluid

**Uses advised against:**No uses advised against identified.

1.3 Details of the supplier of the safety data sheet

Manufacturer / Supplier FUCHS LUBRICANTS NORWAY AS

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**1.4 Emergency telephone number:** +47 22 59 13 00

# **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.

**Environmental Hazards** 

Chronic hazards to the aquatic Category 3 H412: Harmful to aquatic life with long lasting

environment effects.

**Hazard summary** 

Physical Hazards: No data available.

2.2 Label Elements

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

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Product name: RENOLIN ZAF D 22 HT

## **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, Tolutriazole derivative. May pro-

duce an allergic reaction.

2.3 Information on other haz-

ards

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 envi-

ronment without control.

**Endocrine disrupting prop-**

erties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation

(EU) 2018/605 at levels of 0.1% or higher.

# **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

**General information:** Mixture containing severely refined base oils and additives.

Chemical name	Identifier		REACH Registra- tion No.	Notes
organic Polysulphide	EINECS: 273-103-3	0,25% - <1,00%	01-2119540515-43	
Phenolic antioxidant agent	EINECS: 204-884-0	0,10% - <0,25%	01-2119490822-33	
Tolutriazole derivative	EINECS: 939-700-4	0,10% - <1,00%	01-2119982395-25	

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

#### Classification

Chemical name	Identifier	Class	Classification	
organic Polysulphide	EINECS: 273-103-3	CLP:	Aquatic Acute 1;H400, Aquatic Chronic 1;H410, Skin Sens. 1B;H317; M-Factor (aquatic acute): 1; M-Factor (aquatic chronic): 1	
Phenolic antioxidant agent	EINECS: 204-884-0	CLP:	Aquatic Acute 1;H400, Aquatic Chronic 1;H410, Skin Irrit. 2;H315	
Tolutriazole derivative	EINECS: 939-700-4		Skin Irrit. 2;H315, Skin Sens. 1B;H317, Aquatic Acute 1;H400, Aquatic Chronic 2;H411	

CLP: Regulation No. 1272/2008.

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 Note L of Annex VI of Regulation EC 1272/2008."

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PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.



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**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:** Wash with soap and water.

**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

Get medical attention if symptoms occur.

## SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing me-

dia:

CO2, fire extinguishing powder or fog like water spraying. Extinguish larger fires with alcohol resistant foam or spray water with suitable surfactant add-

ed

Unsuitable extinguishing

media:

Water with a full water jet.

5.2 Special hazards arising from the substance or mix-

ture:

During fire, gases hazardous to health may be formed.

5.3 Advice for firefighters

Special fire-fighting proce-

dures:

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:

In case of spills, beware of slippery floors and surfaces.

**6.2 Environmental Precautions:** Avoid release to the environment. Prevent further leakage or spillage if safe

to do so. Prevent from spreading (e.g. by binding or oil barriers). Environmental manager must be informed of all major spillages. Do not allow to

enter drainage system, surface or ground water.

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6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acidbinders, universal binders, sawdust). 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:

7.1 Precautions for safe handling:

Prevent formation of aerosols. Do not eat, drink or smoke when working with the product. Take usual precautions when handling mineral oil products or chemical products. Observe good industrial hygiene practices. Provide adequate ventilation.

7.2 Conditions for safe storage, including any incompatibilities:

Local regulations concerning handling and storage of waterpolluting products have to be followed. Do not heat up to temperatures close to the flash point.

7.3 Specific end use(s): Not applicable

# SECTION 8: Exposure controls/personal protection

## 8.1 Control Parameters

**Occupational Exposure Limits** 

occupational Exposure Limits					
Chemical name	Туре	Exposure Limit Values	Source		
Base oil paraffinic - Mist.	NORMEN	1 mg/m3	Norway. Regulation No. 1358 on Measures and Limit Values for Physical and Chemical Factors in Work Environment and Infection Groups for Biological Factors, as amended (12 2014)		
Base oil, paraffinic - Mist.	NORMEN	1 mg/m3	Norway. Regulation No. 1358 on Measures and Limit Values for Physical and Chemical Factors in Work Environment and Infection Groups for Biological Factors, as amended (12 2011)		

#### 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

General information: Wash hands before breaks and after work. Use personal protective equip-

ment 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 ad-

hered to inhandling the chemicals or the mineral oil products.

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Eye/face 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: >= 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 manufactur-

er of the protective gloves and has to be observed.

Other: Do not carry cleaning cloths impregnated with the product in trouser pock-

ets. Wear suitable protective clothing.

Respiratory Protection: Ensure good ventilation/exhaustion at the workplace. Avoid breathing va-

pour/ aerosol.

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 foot-

wear 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: liquid
Form: liquid
Color: Pale yellow
Odor: Characteristic

**pH:** substance/mixture is non-soluble (in water)

Freezing point: not determined Boiling Point: not determined

Flash Point: 206 °C

**Evaporation Rate:** Not applicable for mixtures

Flammability (solid, gas): not determined

Flammability Limit - Upper (%)—:

Flammability Limit - Lower (%)—:

Vapor pressure:

Relative vapor density:

Not applicable for mixtures

O,85 g/cm3 (15,00 °C)

Solubility(ies)

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

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

Autoignition Temperature:not determinedDecomposition Temperature:not determinedKinematic viscosity:22 mm2/s (40,00 °C)

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

Particle characteristics:Not applicable9.2 Other informationNo 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 oth-

er toxic gases or vapors.

# **SECTION 11: Toxicological information**

## 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

## **Acute toxicity**

Oral

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

Specified substance(s)

organic Polysulphide LD 50 (Rat): 6.500 mg/kg

Phenolic antioxidant

agent

LD 50 (Rat): > 5.001 mg/kg

Tolutriazole derivative LD 50 (Rat, Female, Male): 3.313 mg/kg (OECD 401)

**Dermal** 

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

Specified substance(s)

Phenolic antioxidant

agent

LD 50 (Rabbit): > 10.000 mg/kg

Inhalation

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

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Skin Corrosion/Irritation:

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

Specified substance(s)

Tolutriazole derivative (Rabbit):

Irritating.

Serious Eye Damage/Eye Irritation:

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

Specified substance(s)

Tolutriazole derivative OECD 405 (Rabbit):

Not irritant.

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)

organic Polysulphide , OECD 406-1

sensitizing

Tolutriazole derivative , OECD 406-1 (Guinea Pig)

sensitizing

**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.

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.

11.2 Information on other haz-

ards

**Endocrine disrupting properties** 

**Product:** The substance/mixture does not contain components considered to have

endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation

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(EU) 2018/605 at levels of 0.1% or higher.

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## **SECTION 12: Ecological information**

#### 12.1 Toxicity

**Acute toxicity** 

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

**Fish** 

Specified substance(s)

organic Polysulphide LC 50 (Fish, 96 h): > 0,088 mg/l

Phenolic antioxidant

agent

LC 50 (Fish, 96 h): 0,11 mg/l

Tolutriazole derivative LC 50 (Fish, 96 h): 1,3 mg/l (OECD 203)

Aquatic Invertebrates Specified substance(s)

organic Polysulphide EC 50 (Water Flea, 48 h): 0,24 mg/l (OECD 202)

Phenolic antioxidant

agent

EC 50 (Water Flea, 48 h): 0,45 mg/l

Tolutriazole derivative EC 50 (Water Flea, 48 h): 2,05 mg/l (OECD 202)

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

Toxicity to Aquatic Plants Specified substance(s)

organic Polysulphide LC 50 (Alga, 72 h): 0,838 mg/l (OECD 201)

EC 10 (Alga, 71 h): 0,04 mg/l

Phenolic antioxidant

agent

EC 50 (Alga, 72 h): 3,6 mg/l

Tolutriazole derivative EC 50 (Alga, 72 h): 0,976 mg/l (OECD 201)

## 12.2 Persistence and Degradability

Biodegradation

**Product:** Not applicable for mixtures

Specified substance(s)

12.3 Bioaccumulative potential

**Product:** Not applicable for mixtures

12.4 Mobility in soil:

**Product:** Not applicable for mixtures

**12.5 Results of PBT and vPvB** The product does not contain any substances fulfilling the PBT/vPvB criteria.

assessment:

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12.6 Endocrine disrupting properties

**Product:** The substance/mixture does not contain components considered to have

endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation

(EU) 2018/605 at levels of 0.1% or higher.

**12.7 Other adverse effects:** Harmful 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

laws.

## **European Waste Codes**

13 01 10\*: mineral based non-chlorinated hydraulic oils

# **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: –

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**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 Maritime transport in bulk according to IMO instruments: Not applicable.

## **SECTION 15: Regulatory information**

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

**EU Regulations** 

EU. Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex I, Controlled Substances: none

EU. Regulation 2019/1021/EU on persistent organic pollutants (POPs) (recast), as amended: none

15.2 Chemical safety as-

sessment:

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

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

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 EU 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 simi-

lar mixtures" - Expert Judgement

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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 signature.

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