# **MOVING YOUR WORLD**



# 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 46 HT

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

Identified uses:	Lubricant

Uses advised against:	No uses advised against identified.
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# 1.3 Details of the supplier of the safety data sheet

Manufacturer / Supplier	FUCHS LUBRICANTS NORWAY AS Fredrik Selmersvei 6 0663 Oslo Norway +47 21 99 59 50		
<b>Contact Person:</b> E-mail: Telephone:	HSE Advisor fse-hseasc@fuchs.com +46 8 128 25 000		
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.

<b>Environmental Hazards</b>		
Chronic hazards to the aque environment	atic 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.

# Precautionary Statements

**Prevention:** P273: Avoid release to the environment.





Supplemental label infor	mation 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 environment 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 Com- mission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
Results of PBT and vPvB assessment:	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) 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	Concentration *	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% - <0,25%	01-2119982395-25	

\* 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		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 Nota L/ Nota N of Annex VI of Regulation EC 1272/2008."

#### SECTION 4: First aid measures

#### General:

Instantly remove any clothing soiled by the product.

## 4.1 Description of first aid measures





Product name: RENOLIN ZAF D 46	
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 spe- cial treatment needed	Get medical attention if symptoms occur.
SECTION 5: Firefighting measure	S
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 equip- ment for fire-fighters:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
SECTION 6: Accidental release m	easures
6.1 Personal precautions, pro- tective 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.





e Section 8 of the SDS for Personal Protective Equipment. See Section or information on safe handling See Section 13 for information on dis- cal.
vent formation of aerosols. Do not eat, drink or smoke when working
vent formation of aerosols. Do not eat, drink or smoke when working
n the product. Take usual precautions when handling mineral oil prod- s or chemical products. Observe good industrial hygiene practices. Pro- e adequate ventilation.
al regulations concerning handling and storage of waterpolluting prod- s have to be followed. Do not heat up to temperatures close to the flash nt.
applicable

# 8.1 Control Parameters

**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 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 accord- ing 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.
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 recom-
	mended by the glove supplier. Use skin protection cream for preventive skin protection. Protective gloves, where permitted in acc. to safety direc- tions. 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 pockets. Wear suitable protective clothing.
Respiratory Protection:	Ensure good ventilation/exhaustion at the workplace. Avoid breathing vapour/ 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
Color:	Pale yellow
Odor:	Characteristic
pH:	substance/mixture is non-soluble (in water)
Freezing point:	not determined
Boiling Point:	not determined
Flash Point:	230 °C
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
Relative vapor density:	Not applicable for mixtures
Density:	0,87 g/ml (15,00 °C)
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
Kinematic viscosity:	46 mm2/s (40,00 °C)





Particle characteristics: 9.2 Other information	Not applicable 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 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): 8.697 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.
Skin Corrosion/Irritation: Product: Specified substance(s) Tolutriazole derivative	Based on available data, the classification criteria are not met. (Rabbit): Irritating.





Serious Eye Damage/Eye In Product: Specified substance(s)	ritation: Based on available data, the classification criteria are not met.
Tolutriazole derivative	OECD 405 (Rabbit): Not irritant.
Respiratory or Skin Sensitiz Product:	zation: 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 Toxic Product:	city - Single Exposure Based on available data, the classification criteria are not met.
Specific Target Organ Toxic Product:	city - Repeated Exposure 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 proper Product:	ties The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Com- mission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
SECTION 12: Ecological informat	tion
Acute toxicity	
Product:	Based on available data, the classification criteria are not met.

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 Degradabili	ty
Biodegradation Product: Specified substance(s) Tolutriazole derivative	Not applicable for mixtures Not readily degradable.
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 assessment:	The product does not contain any substances fulfilling the PBT/vPvB crite- ria.
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 Com- mission 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.

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## Product name: RENOLIN ZAF D 46 HT

SECTION 13: Disposal considerations		
13.1 Waste treatment methods	5	
General information:	Dispose in accordance with all applicable regulations.	
<b>Disposal methods:</b> Discharge, treatment, or disposal may be subject to national, state laws.		

# **SECTION 14: Transport information**

#### ADR/RID

ADIVINID		
	mber or ID number:	-
14.2 UN Pro	oper Shipping Name:	_
14.3 Transp	ort Hazard Class(es)	
Class:	× ,	Non-dangerous goods
Label(s	z).	_
	No. (ADR):	
	restriction code:	
Turinei	restriction code.	—
14.4 Packin	g Group:	-
14.5 Enviro	nmental hazards:	_
14.6 Specia	I precautions for user:	_
•	•	
IMDG		
	mber or ID number:	_
	oper Shipping Name:	_
	ort Hazard Class(es)	
Class:		Non dongorous goodo
		Non-dangerous goods
Label(s		-
EmS N	10.:	-
14.3 Packin	g Group:	_
	nmental hazards:	-
	I precautions for user:	_
ΙΑΤΑ		
	mber or ID number:	
		=
	Shipping Name:	=
	oort Hazard Class(es):	
Class:		Non-dangerous goods
Label(s	3):	-
14.4 Packin	a Group:	_
	nmental hazards:	_
	I 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 2024/590/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

Regulation (EC) No. 649/2012 Import and export of dangerous chemicals: none

15.2 Chemical safety as-No Chemical Safety Assessment has been carried out. sessment:

## **SECTION 16: Other information**

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

Wording of the H-sta	tements 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
Revision Date:	09.10.2024
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 de- duced 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 pro- cessing, 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 sig- nature.