

# 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: MARINE RENOLIN ZAF 32 LT

#### 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 Schmierstoffe GmbH Friesenheimer Str. 19 68169 Mannheim
Telephone:	+49 621 3701-0 (ZENTRALE)
Fax:	+49 621 3701-570
<b>Contact Person:</b>	Fuchs Schmierstoffe GmbH Abteilung Produktsicherheit
Telephone:	+49 621 3701-1333
Fax:	+49 621 3701-7303
E-mail:	produktsicherheit@fuchs-schmierstoffe.de
1.4 Emergency telephone number:	+49 621 3701-1333 / +49 621 3701-0 (Mo-Do 8-17, Fr 8-16)

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

The product has not been classified as hazardous, but needs to be labelled according to regulation (EU) 1272/2008 (CLP).

Hazard summary Physical Hazards:	No data available.
2.2 Label Elements	
	EUH208: Contains alkylmethacrylate. May produce an allergic reaction.
	EUH210: Safety data sheet available on request.
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:** 

Mixture containing severely refined base oils and additives.

Chemical name	Identifier		REACH Registration No.	Notes
Base oil, naphthenic	EINECS: 265-156-6	50,00 - <100,00%	01-2119480375-34	

\* 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	Classification	
Base oil, naphthenic	EINECS: 265-156-6	CLP: Asp. Tox. 1;H304	
CLP: Population No. 1272/2008			

CLP: Regulation No. 1272/2008.

For the wording of the listed risk phrases refer to section 16.

#### SECTION 4: First aid measures

General:	Instantly remove any clothing soiled by the product.
1 Description of first aid measu	res
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.
2 Most important symptoms and effects, both acute and delayed:	May cause skin and eye irritation.
.3 Indication of any immediate medical attention and special treatment needed	Get medical attention if symptoms occur.

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.



#### Product name: MARINE RENOLIN ZAF 32 LT 5.2 Special hazards arising During fire, gases hazardous to health may be formed. from the substance or mixture: 5.3 Advice for firefighters Special fire fighting Move container from fire area if it can be done without risk. Dispose of fire procedures: debris and contaminated fire fighting water inaccordance with official regulations. Collect contaminated fire fighting water separately. It must not enter drains. Special protective Self-contained breathing apparatus and full protective clothing must be equipment for fire-fighters: worn in case of fire. SECTION 6: Accidental release measures 6.1 Personal precautions, In case of spills, beware of slippery floors and surfaces. protective equipment and emergency procedures: **6.2 Environmental Precautions:** Prevent from spreading (e.g. by binding or oil barriers). 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 Absorb with liquid-binding material (sand, diatomite, acidbinders, universal containment and cleaning binders, sawdust). Dispose of the material collected according to up: regulations. Stop the flow of material, if this is without risk. 6.4 Reference to other See Section 8 of the SDS for Personal Protective Equipment. See Section sections: 7 for information on safe handling See Section 13 for information on disposal. **SECTION 7: Handling and storage:** 7.1 Precautions for safe Prevent formation of aerosols. Do not eat, drink or smoke when working handling: 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):	No data available.

# Storage Class: 10, Combustible liquids

# **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	
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 measure	es, 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 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 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.
<b>Respiratory Protection:</b>	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 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:	liquid
Form:	liquid
Color:	Pale yellow
Odor:	Characteristic
Odor Threshold:	Not applicable for mixtures



Freezing point:Not applicable for mixturesBoiling Point:Value not relevant for classificationFlash Point:154 °C (DIN EN ISO 2592)Evaporation Rate:Not applicable for mixturesFlammability (solid, gas):Value not relevant for classificationFlammability Limit - Upper (%)-:Not applicable for mixturesFlammability Limit - Lower (%)-:Not applicable for mixturesVapor pressure:Not applicable for mixturesVapor density (air=1):Not applicable for mixturesDensity:0,86 g/cm3 (15,00 °C) (DIN 51757)Solubility (ies)Insoluble in waterPartition coefficient (n-octanol/water):Not applicable for mixturesAutoignition Temperature:Value not relevant for classificationKinematic viscosity:31 mm2/s (40,00 °C, DIN 51562-1)Explosive properties:Value not relevant for classificationOxidizing properties:Value not relevant for classification	pH:	not applicable
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Oxidizing properties: Value not relevant for classification	Kinematic viscosity:	31 mm2/s (40,00 °C, DIN 51562-1)
	Explosive properties:	Value not relevant for classification
	Oxidizing properties:	Value not relevant for classification
<b>9.2 Other information</b> No data available.	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.

# **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

#### Acute toxicity

Oral Product:

Not classified for acute toxicity based on available data.



<b>Specified substance(s)</b> Base oil, naphthenic	LD 50 (Rat): > 2.001 mg/kg
Dermal Product:	Not classified for acute toxicity based on available data.
<b>Specified substance(s)</b> Base oil, naphthenic	LD 50 (Rabbit): > 2.001 mg/kg
Inhalation Product:	
Specified substance(s)	Not classified for acute toxicity based on available data.
Base oil, naphthenic	LC 50 (Rat, 4 h): > 5,53 mg/l Dusts, mists and fumes
Skin Corrosion/Irritation: Product:	Based on available data, the classification criteria are not met.
Serious Eye Damage/Eye Irri Product:	itation: Based on available data, the classification criteria are not met.
Respiratory or Skin Sensitiza Product:	
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.
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 Toxici Product:	it <b>y - Single Exposure</b> Based on available data, the classification criteria are not met.
Specific Target Organ Toxici Product:	i <b>ty - Repeated Exposure</b> Based on available data, the classification criteria are not met.
Aspiration Hazard Product:	Based on available data, the classification criteria are not met.
Other Adverse Effects:	No data available.



SECTION 12: Ecological information		
12.1 Toxicity		
Acute toxicity Product:	Based on available data, the classification criteria are not met.	
Fish Specified substance(s) Base oil, naphthenic	LC 50 (Fish, 96 h): > 101 mg/l	
Chronic ToxicityProduct:	Based on available data, the classification criteria are not met.	
12.2 Persistence and Degradability		
Biodegradation Product:	Not applicable for mixtures	
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 criteria.	
12.6 Other Adverse Effects:	No data available.	
Water Hazard Class (WGK):	WGK 1: slightly water-endangering.	
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	

European Waste Codes

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

mixing instructions are observed.

way. When storing used products, ensure that the waste categories and



SECTION 14: Transport information		
ADR/RID		
14.1 UN 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:	-	
ADN		
14.1 UN Number:	_	
14.2 UN Proper Shipping Name:	-	
14.3 Transport Hazard Class(es)		
Class:	Non-dangerous goods	
Label(s):	-	
14.3 Packing Group: 14.5 Environmental hazards:	-	
14.6 Special precautions for user:	-	
IMDG		
14.1 UN 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:	-	
ΙΑΤΑ		
14.1 UN 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 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		
National Regulations		
Water Hazard Class (WGK):	WGK 1: slightly water-endangering.	
15.2 Chemical safety assessment:	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 3H304May be fatal if swallowed and enters airways.		
Other information:	The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies. The classification results from the Conventional Method mentioned in regulation EU 1272/2008 (CLP).	
Revision Date: Disclaimer:	31.05.2016 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.	