

# 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: TITAN SUPERSYN D1 0W-20

#### 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.

#### 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 Boric acid ester. 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 paraffinic	EINECS: 265-157-1	50,00 - <100,00%	01-2119484627-25	
alkarylamine, longchained	EINECS: 253-249-4	1,00 - <5,00%	01-2119488911-28	
ZnDTP	EINECS: 218-679-9	1,00 - <2,50%	01-2119953275-34	

\* 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 paraffinic	EINECS: 265-157-1	CLP: Asp. Tox. 1;H304
alkarylamine, longchained	EINECS: 253-249-4	CLP: Aquatic Chronic 4;H413
ZnDTP	EINECS: 218-679-9	CLP: Eye Dam. 1;H318, Skin Irrit. 2;H315, Aquatic Chronic 2;H411

CLP: Regulation No. 1272/2008.

For the wording of the listed hazard statements refer to section 16.

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."

#### SECTION 4: First aid measures

General:	Instantly remove any clothing soiled by the product.
4.1 Description of first aid measu	ires
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 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 m	easures
6.1 Personal precautions, protective equipment and emergency procedures:	In case of spills, beware of slippery floors and surfaces.
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 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	9:
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):	No data available.



**Storage Class:** 

10, Combustible liquids

# SECTION 8: Exposure controls/personal protection

# **8.1 Control Parameters**

#### **Occupational Exposure Limits**

Chemical name	Туре	Exposure Limit Values	Source
ZnDTP - Inhalable fraction.	MAK	2 mg/m3	Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG) (2011)
ZnDTP - Respirable fraction.	MAK	0,1 mg/m3	Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG) (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 measure	s, 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:	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:	Light brown
Odor:	Characteristic
Odor Threshold:	Not applicable for mixtures
pH:	Not applicable
Freezing point:	Not applicable for mixtures
Boiling Point:	Value not relevant for classification
Flash Point:	230 °C (DIN EN ISO 2592)
Evaporation Rate:	Not applicable for mixtures
Flammability (solid, gas):	Value not relevant for classification
Flammability Limit - Upper (%)–:	Not applicable for mixtures
Flammability Limit - Lower (%)–:	Not applicable for mixtures
Vapor pressure:	Not applicable for mixtures
Vapor density (air=1):	Not applicable for mixtures
Density:	0,84 g/cm3 (15,00 °C) (DIN 51757)
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
Kinematic viscosity:	44,23 mm2/s (40 °C, DIN 51562-1)
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.
SECTION 11: Toxicological inform	nation
11.1 Information on toxicologica	leffects
Acute toxicity	
Oral Product:	
Specified substance(s)	Not classified for acute toxicity based on available data.
Base oil paraffinic	LD 50 (Rat): > 5.000 mg/kg
alkarylamine, longchained	LD 50 (Rat): > 5.001 mg/kg (OECD 423)
ZnDTP	LD 50 (Rat): 2.230 mg/kg (OECD 401)
Dermal Product:	Not classified for acute toxicity based on available data.
<b>Specified substance(s)</b> Base oil paraffinic	LD 50 (Rabbit): > 5.000 mg/kg
ZnDTP	LD 50 (Rabbit): > 25.000 mg/kg
Inhalation Product: Specified substance(s)	Not classified for acute toxicity based on available data.
ZnDTP	LD 50 (Rat, 4 h): > 2,3 mg/l
Skin Corrosion/Irritation: Product: Specified substance(s)	Based on available data, the classification criteria are not met.
alkarylamine, longchained	OECD 404 (Rabbit): Not irritant.
Serious Eye Damage/Eye Irr Product: Specified substance(s) alkarylamine, longchained	itation: Based on available data, the classification criteria are not met. 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) alkarylamine, longchained No sensitizing effect (guinea pig); OECD 406 Germ Cell Mutagenicity Based on available data, the classification criteria are not met. Product: 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. Other adverse effects: No data available.

#### Product name: TITAN SUPERSYN D1 0W-20

# SECTION 12: Ecological information

#### 12.1 Toxicity

Acute toxicity Product:	Based on available data, the classification criteria are not met.
Fish Specified substance(s) alkarylamine, longchained	LC 50 (Fish, 96 h): > 101 mg/l (OECD 203)
ZnDTP	LC 50 (Fish, 96 h): 46 mg/l
Aquatic Invertebrates Specified substance(s) alkarylamine, longchained	EC 50 (Water Flea, 48 h): > 101 mg/l (OECD 202)
ZnDTP	EC 50 (Water Flea, 48 h): 25 mg/l
Chronic ToxicityProduct:	Based on available data, the classification criteria are not met.

#### Fish



Troudel name. THAN SOI ENSTIN	D1 00-20
Specified substance(s) ZnDTP	NOEC (Fish, 96 d): 1,8 mg/l
Aquatic Invertebrates Specified substance(s) ZnDTP	NOEC (Water Flea, 21 d): 0,4 mg/l
Toxicity to Aquatic Plants Specified substance(s) alkarylamine, longchained	EC 50 (Alga, 72 h): > 101 mg/l (OECD 201)
ZnDTP	EC 50 (Alga, 72 h): 21 mg/l
12.2 Persistence and Degradabil	ity
Biodegradation Product: Specified substance(s) alkarylamine, longchained	Not applicable for mixtures 1 % (28 d, OECD 301B) Not easily biodegradable
ZnDTP	1,5 % (28 d, OECD 301B)
12.3 Bioaccumulative potential Product: Specified substance(s) alkarylamine, longchained	Not applicable for mixtures Bioconcentration Factor (BCF): 1.584
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 2:hazard to waters
SECTION 13: Disposal considerat	lions
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

mixing instructions are observed.

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

# European Waste Codes



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

## 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:	_
14.1 UN Number: 14.2 UN Proper Shipping Name:	-
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14.1 UN Number: 14.2 UN Proper Shipping Name: 14.3 Transport Hazard Class(es) Class: Label(s): EmS No.: 14.3 Packing Group: 14.5 Environmental hazards: 14.6 Special precautions for user: IATA 14.1 UN Number:	– Non-dangerous goods – – – –
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#### 14.7 Transport in bulk according to Annex II of MARPOL 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 2:hazard to waters	
15.2 Chemical safety assessment:	No Chemical Safety Assessment has been carried out.	
SECTION 16: Other infor	mation	
Revision Information:	Vertical lines in the margin indicate an amendment.	
Wording of the H-statem H304 H315 H318 H411 H413 Other information: Revision Date: Disclaimer:	<ul> <li>May be fatal if swallowed and enters airways.</li> <li>Causes skin irritation.</li> <li>Causes skin irritation.</li> <li>Causes serious eye damage.</li> <li>Toxic to aquatic life with long lasting effects.</li> <li>May cause long lasting harmful effects to aquatic life.</li> <li>The classification complies with the current EU lists; however, it has been supplemented with expert literature information and information provided by/about our company. It was derived from the test data and/or the application of the conventional method.</li> <li>13.12.2018</li> <li>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 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.</li> </ul>	