

## 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 ATF 4000

#### 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

#### Contact for request of safety data sheets

E-mail: Automotive lubricants automotive-FS@fuchs.com  
Industrial lubricants industrie-FS@fuchs.com  
Telephone: +49 621 3701-0 (ZENTRALE)  
Fax: +49 621 3701-570

#### Informing department for safety data sheets

E-mail: produktsicherheit-FS@fuchs.com  
Telephone: +49 621 3701-1333  
Fax: +49 621 3701-7303

**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 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 environment Category 3 H412: Harmful to aquatic life with long lasting effects.

**Product name:** TITAN ATF 4000

**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.

**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.

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

**3.2 Mixtures**

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

Chemical name	Identifier	Concentration *	REACH Registration No.	Notes
Methacrylate copolymer	Confidential	1,00% - <5,00%	Confidential	
Base oil, low viscous	EINECS: 265-158-7	1,00% - <10,00%	01-2119487077-29	
Alkyl amine	EC: 620-540-6	0,25% - <1,00%	01-2119510877-33	
prim. alkanolamine ether	EC: 939-485-7	0,001% - <0,10%	01-2119974116-35	

\* 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
Methacrylate copolymer	Confidential	CLP: Eye Irrit. 2;H319
Base oil, low viscous	EINECS: 265-158-7	CLP: Asp. Tox. 1;H304
Alkyl amine	EC: 620-540-6	CLP: Skin Corr. 1C;H314, Eye Dam. 1;H318, Aquatic Acute 1;H400, Aquatic Chronic 1;H410, Acute Tox. 4;H302; M-Factor (aquatic acute): 10; M-Factor (aquatic chronic): 1
prim. alkanolamine ether	EC: 939-485-7	CLP: Acute Tox. 4;H302, Skin Corr. 1B;H314, Eye Dam. 1;H318, Aquatic Acute 1;H400, Aquatic Chronic 1;H410; M-Factor (aquatic acute): 100; M-Factor (aquatic chronic): 1

CLP: Regulation No. 1272/2008.

**Product name:** TITAN ATF 4000

**specific concentration limit**

Chemical name	Identifier	specific concentration limit	Hazard class	Hazard Category	Hazard statements
Methacrylate copolymer	Confidential	>= 75 %	Serious eye irritation	2	H319

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 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 media:** CO<sub>2</sub>, 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**

**Product name:** TITAN ATF 4000

<b>Special fire fighting procedures:</b>	Move container from fire area if it can be done without risk. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Collect contaminated fire fighting water separately. It must not enter drains.
<b>Special protective equipment for fire-fighters:</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

#### SECTION 6: Accidental release measures

<b>6.1 Personal precautions, protective equipment and emergency procedures:</b>	In case of spills, beware of slippery floors and surfaces.
<b>6.2 Environmental Precautions:</b>	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.
<b>6.3 Methods and material for containment and cleaning up:</b>	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.
<b>6.4 Reference to other sections:</b>	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:

<b>7.1 Precautions for safe handling:</b>	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.
<b>7.2 Conditions for safe storage, including any incompatibilities:</b>	Local regulations concerning handling and storage of waterpolluting products have to be followed. Do not heat up to temperatures close to the flash point.
<b>7.3 Specific end use(s):</b>	Not applicable

**Storage Class:** 10, Combustible liquids

#### SECTION 8: Exposure controls/personal protection

##### 8.1 Control Parameters

##### Occupational Exposure Limits

Chemical name	Type	Exposure Limit Values	Source
Base oil, low viscous - Respirable fraction.	MAK	5 mg/m <sup>3</sup>	Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG), as amended (2017)

**Product name:** TITAN ATF 4000

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## 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 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 in handling the chemicals or the mineral oil products.

**Eye/face protection:**

Safety glasses (EN 166) recommended during refilling. 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:  $\geq 480$  min  
Recommended thickness of the material:  $\geq 0,38$  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**

<b>Physical state:</b>	liquid
<b>Form:</b>	liquid
<b>Color:</b>	Red

**Product name:** TITAN ATF 4000

<b>Odor:</b>	Characteristic
<b>pH:</b>	substance/mixture is non-soluble (in water)
<b>Freezing point:</b>	not determined
<b>Boiling Point:</b>	Not applicable
<b>Flash Point:</b>	190 °C
<b>Evaporation Rate:</b>	Not applicable for mixtures
<b>Flammability (solid, gas):</b>	not determined
<b>Flammability Limit - Upper (%)-:</b>	Not applicable for mixtures
<b>Flammability Limit - Lower (%)-:</b>	Not applicable for mixtures
<b>Vapor pressure:</b>	Not applicable for mixtures
<b>Relative vapor density:</b>	Not applicable for mixtures
<b>Density:</b>	0,86 g/ml (15,00 °C)
<b>Solubility(ies)</b>	
<b>Solubility in Water:</b>	Insoluble in water
<b>Solubility (other):</b>	No data available.
<b>Partition coefficient (n-octanol/water):</b>	Not applicable for mixtures
<b>Autoignition Temperature:</b>	not determined
<b>Decomposition Temperature:</b>	not determined
<b>Kinematic viscosity:</b>	35,9 mm <sup>2</sup> /s (40 °C)
<b>Explosive properties:</b>	Value not relevant for classification
<b>Oxidizing properties:</b>	Value not relevant for classification
<b>Particle characteristics:</b>	Not applicable
<b>9.2 Other information</b>	No data available.

## SECTION 10: Stability and reactivity

<b>10.1 Reactivity:</b>	Stable under normal use conditions.
<b>10.2 Chemical Stability:</b>	Stable under normal use conditions.
<b>10.3 Possibility of hazardous reactions:</b>	Stable under normal use conditions.
<b>10.4 Conditions to avoid:</b>	Stable under normal use conditions.
<b>10.5 Incompatible Materials:</b>	Strong oxidizing substances. Strong acids. Strong bases.
<b>10.6 Hazardous Decomposition Products:</b>	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.

**Product name:** TITAN ATF 4000

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<b>Specified substance(s)</b>	
Base oil, low viscous	LD 50 (Rat): > 5.000 mg/kg
Alkyl amine	LD 50 (Rat): 1.350 mg/kg (OECD 401)
<b>Dermal</b>	
<b>Product:</b>	Not classified for acute toxicity based on available data.
<b>Specified substance(s)</b>	
Base oil, low viscous	LD 50 (Rabbit): > 5.000 mg/kg
<b>Inhalation</b>	
<b>Product:</b>	Not classified for acute toxicity based on available data.
<b>Specified substance(s)</b>	
Base oil, low viscous	LC 50 (Rat, 4 h): > 5 mg/l
<b>Skin Corrosion/Irritation:</b>	
<b>Product:</b>	Based on available data, the classification criteria are not met.
<b>Serious Eye Damage/Eye Irritation:</b>	
<b>Product:</b>	Based on available data, the classification criteria are not met.
<b>Respiratory or Skin Sensitization:</b>	
<b>Product:</b>	Skin sensitizer: Based on available data, the classification criteria are not met. Respiratory sensitizer: Based on available data, the classification criteria are not met.
<b>Specified substance(s)</b>	
Alkyl amine	No sensitizing effect (guinea pig); OECD 406
<b>Germ Cell Mutagenicity</b>	
<b>Product:</b>	Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	
<b>Product:</b>	Based on available data, the classification criteria are not met.
<b>Reproductive toxicity</b>	
<b>Product:</b>	Based on available data, the classification criteria are not met.
<b>Specific Target Organ Toxicity - Single Exposure</b>	
<b>Product:</b>	Based on available data, the classification criteria are not met.
<b>Specific Target Organ Toxicity - Repeated Exposure</b>	
<b>Product:</b>	Based on available data, the classification criteria are not met.
<b>Aspiration Hazard</b>	
<b>Product:</b>	Based on available data, the classification criteria are not met.
<b>Other adverse effects:</b>	No data available.

**Product name:** TITAN ATF 4000

**SECTION 12: Ecological information**

**12.1 Toxicity**

**Acute toxicity**

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

**Fish**

**Specified substance(s)**  
Alkyl amine LC 50 (Fish, 96 h): 0,1 mg/l (OECD 203)

**Aquatic Invertebrates**

**Specified substance(s)**  
Alkyl amine EC 50 (Water Flea, 48 h): 0,043 mg/l (OECD 202)

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

**Aquatic Invertebrates**

**Specified substance(s)**  
Alkyl amine EC 10 (Water Flea, 21 d): 0,0107 mg/l (OECD 211)

**Toxicity to Aquatic Plants**

**Specified substance(s)**  
Alkyl amine EC 50 (Alga, 72 h): 0,0538 mg/l (OECD 201)  
NOEC (Alga, 72 h): 0,0156 mg/l

**12.2 Persistence and Degradability**

**Biodegradation**

**Product:** Not applicable for mixtures  
**Specified substance(s)**  
Alkyl amine 63 % (28 d, OECD 301D) Readily biodegradable

**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:**

Harmful to aquatic life with long lasting effects.

**Water Hazard Class (WGK):**

WGK 2: significantly water-endangering.



**Product name:** TITAN ATF 4000

## 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 02 05\*: mineral-based non-chlorinated engine, gear and lubricating 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: —

### 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: —

### IATA

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 MARPOL and the IBC Code:** Not applicable.

Product name: TITAN ATF 4000

## 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

#### National Regulations

**Water Hazard Class (WGK):** WGK 2: significantly 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 3

H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very 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 similar mixtures" - Expert Judgement

**Revision Date:** 30.08.2021

**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.