



## 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 GT1 5W-40

#### 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

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+49 621 3701-0 (ZENTRALE)

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#### 1.4 Emergency telephone number:

+49 621 3701-1333 ODER +49 621 3701-0

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**||** The product has been classified and labelled as hazardous according to the legislation in force.

**Classification according to Directive 67/548/EEC or 1999/45/EC as amended.**

R52/53

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Product name:** TITAN GT1 5W-40

**Classification according to Regulation (EC) No 1272/2008 as amended.**

**Health Hazards**

Serious eye irritation                      Category 2                      H319: Causes serious eye irritation.

**Environmental Hazards**

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

**Hazard summary**

**Physical 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.

**Environmental hazards:** This product is water polluting.

**2.2 Label Elements**



**Signal Words:** Warning

**Hazard Statement(s):** H319: Causes serious eye irritation.  
H412: Harmful to aquatic life with long lasting effects.

**Precautionary Statement**

**Prevention:** P262: Do not get in eyes, on skin, or on clothing.  
P273: Avoid release to the environment.

**2.3 Other hazards:** No data available.

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

**3.2 Mixtures**

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

Chemical name	Concentration *	Identifier	REACH Registration No.	Notes
zinc dithiophosphate	1,00 - <3,00%	298-577-9	01-2119543726-33	
Ethoxylate	0,10 - <1,00%	500-209-1		**

\* 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.

\*\* Regulation (EC) No. 1907/2006, REACH Article 59(1). Candidate List

**Product name:** TITAN GT1 5W-40

## Classification

Chemical name	Classification
zinc dithiophosphate	DSD: Xi; R38 R41 N; R51/53
	CLP: Skin Irrit. 2;H315, Eye Dam. 1;H318, Aquatic Chronic 2;H411
Ethoxylate	DSD: Xi; R36/38 N; R50/53
	CLP: Aquatic Acute 1;H400, Aquatic Chronic 1;H410, Skin Irrit. 2;H315, Eye Irrit. 2;H319

DSD: Directive 67/548/EEC.  
CLP: Regulation No. 1272/2008.

The full text for all R-phrases and H-statements is displayed in section 16.

## SECTION 4: First aid measures

**General:** Change clothes and shoes contaminated or soaked by the product. Never put rags contaminated by the product into cloth-pockets.

### 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. The product is not skin irritating.

**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

**Hazards:** No data available.

**Treatment:** 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 tensides 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.

**Product name:** TITAN GT1 5W-40

### 5.3 Advice for firefighters

**Special fire fighting procedures:** No data available.

**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:** Prevent from spreading (e.g. by binding or oil barriers).

**6.3 Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acidbinders, universal binders, sawdust).

**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:** Do not eat, drink or smoke when working with the product. Take usual precautions when handling mineral oil products or chemical products.

**7.2 Conditions for safe storage, including any incompatibilities:** Local regulations concerning handling and storage of waterpolluting products have to be followed. Prevent formation of aerosols. Do not heat up to temperatures close to the flash point.

**7.3 Specific end use(s):** 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
zinc dithiophosphate - 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)
zinc dithiophosphate - 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)

Product name: TITAN GT1 5W-40

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## 8.2 Exposure controls

**Appropriate engineering controls:** No data available.

### 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.

#### Skin protection

**Hand Protection:** Nitrile butyl rubber (NBR). 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:** In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor. Avoid breathing vapour/ aerosol.

**Thermal hazards:** No data available.

**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>	Dark yellow
<b>Odor:</b>	Characteristic
<b>Odor Threshold:</b>	No data available.
<b>pH:</b>	not applicable
<b>Freezing point:</b>	No data available.
<b>Boiling Point:</b>	No data available.

**Product name:** TITAN GT1 5W-40

<b>Flash Point:</b>	252 °C
<b>Evaporation Rate:</b>	No data available.
<b>Flammability (solid, gas):</b>	No data available.
<b>Flammability Limit - Upper (%)—:</b>	No data available.
<b>Flammability Limit - Lower (%)—:</b>	No data available.
<b>Vapor pressure:</b>	No data available.
<b>Vapor density (air=1):</b>	No data available.
<b>Density:</b>	0,85 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>	No data available.
<b>Autoignition Temperature:</b>	No data available.
<b>Decomposition Temperature:</b>	No data available.
<b>Kinematic viscosity:</b>	85,3 mm <sup>2</sup> /s (40 °C)
<b>Explosive properties:</b>	No data available.
<b>Oxidizing properties:</b>	No data available.
<b>9.2 Other information</b>	No data available.

## SECTION 10: Stability and reactivity

<b>10.1 Reactivity:</b>	Stable under normal temperature conditions and recommended use.
<b>10.2 Chemical Stability:</b>	No data available.
<b>10.3 Possibility of Hazardous Reactions:</b>	None under normal conditions.
<b>10.4 Conditions to Avoid:</b>	Avoid heat or contamination.
<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.

##### Specified substance(s)

zinc dithiophosphate

No data available.

Ethoxylate

LD 50 (Rat): > 2.001 mg/kg

**Product name:** TITAN GT1 5W-40

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**Dermal**

**Product:**

Not classified for acute toxicity based on available data.

**Specified substance(s)**

zinc dithiophosphate

No data available.

Ethoxylate

No data available.

**Inhalation**

**Product:**

Not classified for acute toxicity based on available data.

**Specified substance(s)**

zinc dithiophosphate

No data available.

Ethoxylate

No data available.

**Repeated dose toxicity**

**Product:**

No data available.

**Specified substance(s)**

zinc dithiophosphate

No data available.

Ethoxylate

No data available.

**Skin Corrosion/Irritation:**

**Product:**

No data available.

**Specified substance(s)**

zinc dithiophosphate

No data available.

Ethoxylate

No data available.

**Serious Eye Damage/Eye Irritation:**

**Product:**

No data available.

**Specified substance(s)**

zinc dithiophosphate

No data available.

Ethoxylate

No data available.

**Respiratory or Skin Sensitization:**

**Product:**

No data available.

**Specified substance(s)**

zinc dithiophosphate

No data available.

Ethoxylate

No data available.

**Product name:** TITAN GT1 5W-40

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#### **Germ Cell Mutagenicity**

##### **In vitro**

**Product:** No data available.

##### **Specified substance(s)**

zinc dithiophosphate No data available.

Ethoxylate No data available.

##### **In vivo**

**Product:** No data available.

##### **Specified substance(s)**

zinc dithiophosphate No data available.

Ethoxylate No data available.

#### **Carcinogenicity**

**Product:** No data available.

##### **Specified substance(s)**

zinc dithiophosphate No data available.

Ethoxylate No data available.

#### **Reproductive toxicity**

**Product:** No data available.

##### **Specified substance(s)**

zinc dithiophosphate No data available.

Ethoxylate No data available.

#### **Specific Target Organ Toxicity - Single Exposure**

**Product:** No data available.

##### **Specified substance(s)**

zinc dithiophosphate No data available.

Ethoxylate No data available.

#### **Specific Target Organ Toxicity - Repeated Exposure**

**Product:** No data available.

##### **Specified substance(s)**

zinc dithiophosphate No data available.

Ethoxylate No data available.

#### **Aspiration Hazard**

**Product:** No data available.

##### **Specified substance(s)**

zinc dithiophosphate No data available.

Ethoxylate No data available.

#### **Other Adverse Effects:**

No data available.



Product name: TITAN GT1 5W-40

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Acute toxicity

##### Fish

**Product:** No data available.

##### Specified substance(s)

zinc dithiophosphate LC 50 (Fish, 96 h): 4,5 mg/l  
Ethoxylate No data available.

##### Aquatic Invertebrates

**Product:** No data available.

##### Specified substance(s)

zinc dithiophosphate EC 50 (Water Flea, 48 h): 5,4 mg/l  
Ethoxylate No data available.

#### Chronic Toxicity

##### Fish

**Product:** No data available.

##### Specified substance(s)

zinc dithiophosphate No data available.  
Ethoxylate No data available.

##### Aquatic Invertebrates

**Product:** No data available.

##### Specified substance(s)

zinc dithiophosphate No data available.  
Ethoxylate No data available.

##### Toxicity to Aquatic Plants

**Product:** No data available.

##### Specified substance(s)

zinc dithiophosphate No data available.  
Ethoxylate No data available.

### 12.2 Persistence and Degradability

#### Biodegradation

**Product:** No data available.

##### Specified substance(s)

zinc dithiophosphate 1,5 % (28 d, OECD 301B) The product is slightly biodegradable.  
Ethoxylate No data available.



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### 12.3 Bioaccumulative Potential

**Product:** No data available.

**Specified substance(s)**

zinc dithiophosphate Due to the distribution coefficient n-octanol/water an accumulation in organisms is not expected.

Ethoxylate No data available.

**12.4 Mobility in Soil:** No data available.

**Known or predicted distribution to environmental compartments**

zinc dithiophosphate No data available.

Ethoxylate No data available.

**12.5 Results of PBT and vPvB assessment:** No data available.

zinc dithiophosphate No data available.

Ethoxylate No data available.

**12.6 Other Adverse Effects:** No data available.

**Water Hazard Class (WGK):** WGK 2: 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 way. When storing used products, ensure that the waste categories and mixing instructions are observed.

**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: —

**Product name:** TITAN GT1 5W-40

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: —

#### 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 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 2: water-endangering.

**15.2 Chemical safety** No Chemical Safety Assessment has been carried out.

Product name: TITAN GT1 5W-40

assessment:

## SECTION 16: Other information

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

### Wording of the R-phrases and H-statements in section 2 and 3

H315	Causes skin irritation.
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.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
R36/38	Irritating to eyes and skin.
R38	Irritating to skin.
R41	Risk of serious damage to eyes.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Training information:** Follow training instructions when handling this material.

**Revision Date:** 16.02.2015

**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.