

## SAFETY DATA SHEET

acc.to ISO/DIS 11014 for USA

### 1 PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 Product identifier

**Product name:** MAINTAIN FRICOFIN 50

**Other means of identification:** For further information, please refer to section 9 of the SDS.

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

**Identified uses:** Antifreeze/coolant Containers  $\geq 20\text{l}$  for commercial use only

**Uses advised against:** No uses advised against identified.

#### 1.3 Details of the supplier of the safety data sheet

##### Manufacturer / Supplier

FUCHS LUBRICANTS GERMANY GmbH

Friesenheimer Str. 19

68169 Mannheim

Telephone:

+49 621 3701-0 (ZENTRALE)

Fax:

+49 621 3701-570

US Distributor

Fuchs Lubricants Co.

17050 Lathrop Avenue

Harvey, IL 60426

(708) 333-8900

(800) 255-3924 24 hrs Emergency

##### Contact for request of safety data sheets

E-mail:

Automotive lubricants

CS.Services-FLG@fuchs.com

Industrial lubricants

Telephone:

+49 621 3701-0 (ZENTRALE)

##### Informing department for safety data sheets

E-mail:

produktsicherheit-FLG@fuchs.com

#### 1.4 US contact telephone :

708-333-8900

**Emergency telephone:**

800-255-3924

### 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.

##### Health Hazards

Toxic to reproduction

Category 1B

Specific Target Organ Toxicity - Repeated  
Exposure

Category 2

##### Hazard summary

**Physical Hazards:**

No data available.

Product name: TITAN FRICOFIN 50

## 2.2 Label Elements



**Signal Words:** Danger

**Hazard Statement(s):** H360: May damage fertility or the unborn child.  
H373: May cause damage to organs through prolonged or repeated exposure.

### Precautionary Statements

**Prevention:** P201: Obtain special instructions before use.  
P202: Do not handle until all safety precautions have been read and understood.  
P260: Do not breathe dust/fume/gas/mist/vapors/spray.  
P281: Use personal protective equipment as required.

**Response:** P308+P313: IF exposed or concerned: Get medical advice/attention.

**Storage:** P405: Store locked up.

**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.

**Unknown toxicity:** Due to information available product does not contain any ingredients of unknown toxicity.

## 3 COMPOSITION / INFORMATION ON INGREDIENTS

### 3.2 Mixtures

**General information:** Mixture of the substances listed below with harmless additions.

Chemical name	Identifier	Concentration *	Notes
Ethanediol	107-21-1	25.00 - <50.00%	
Na-salt of carboxylic acid	19766-89-3	1.00 - <5.00%	
Na-Sebacat	17265-14-4	1.00 - <5.00%	
Disodium tetraborate, anhydrous	1330-43-4	0.10 - <0.30%	

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.  
PBT: persistent, bioaccumulative and toxic substance.

**Product name:** TITAN FRICOFIN 50

vPvB: very persistent and very bioaccumulative substance.

#### Classification

Chemical name	Identifier	Classification
Ethanediol	107-21-1	Acute Tox. 4;H302, STOT RE 2;H373
Na-salt of carboxylic acid	19766-89-3	Repr. 1B;H360D
Na-Sebacat	17265-14-4	Eye Irrit. 2;H319
Disodium tetraborate, anhydrous	1330-43-4	Repr. 1B;H360FD, Eye Irrit. 2;H319

## 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

**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 in accordance with official regulations. Collect contaminated fire fighting water separately. It must not enter drains.

**Product name:** TITAN FRICOFIN 50

**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). 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:

**7.1 Precautions for safe handling:**

Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. 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:**

Store locked up. Local regulations concerning handling and storage of waterpolluting products have to be followed.

**7.3 Specific end use(s):**

Not applicable

## 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

---

**Product name:** TITAN FRICOFIN 50
 

---

**8.1.Exposure Limits**

Chemical name	Type	Exposure Limit Values	Source
Ethanediol	Ceiling	50 ppm      125 mg/m <sup>3</sup>	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
Ethanediol - Aerosol.	Ceiling	100 mg/m <sup>3</sup>	US. ACGIH Threshold Limit Values, as amended (02 2012)
Disodium tetraborate, anhydrous	TWA	10 mg/m <sup>3</sup>	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
Disodium tetraborate, anhydrous - Inhalable fraction.	STEL	6 mg/m <sup>3</sup>	US. ACGIH Threshold Limit Values, as amended (02 2012)
Disodium tetraborate, anhydrous - Inhalable fraction.	TWA	2 mg/m <sup>3</sup>	US. ACGIH Threshold Limit Values, as amended (02 2012)

**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:**

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:**

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.

---

**Product name:** TITAN FRICOFIN 50

---

**Environmental Controls:** No data available.

<b>9 PHYSICAL AND CHEMICAL PROPERTIES</b>
---

**9.1 Information on basic physical and chemical properties**

<b>Physical state:</b>	liquid
<b>Form:</b>	liquid
<b>Color:</b>	Blue-green
<b>Odor:</b>	Characteristic
<b>Odor Threshold:</b>	Not applicable for mixtures
<b>pH:</b>	8.2 (517 g/l)
<b>Freezing point:</b>	-35 °C
<b>Boiling Point:</b>	> 105 °C
<b>Flash Point:</b>	Not applicable
<b>Evaporation Rate:</b>	Not applicable for mixtures
<b>Flammability (solid, gas):</b>	Value not relevant for classification
<b>Explosion Limit - Upper (%):</b>	Not applicable for mixtures
<b>Explosion 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>	1.07 g/cm <sup>3</sup> (15 °C)
<b>Solubility(ies)</b>	
<b>Solubility in Water:</b>	Soluble
<b>Solubility (other):</b>	No data available.
<b>Partition coefficient (n-octanol/water):</b>	Not applicable for mixtures
<b>Auto-ignition temperature:</b>	Value not relevant for classification
<b>Decomposition Temperature:</b>	Value not relevant for classification
<b>Flow time:</b>	Value not relevant for classification
<b>Explosive properties:</b>	Value not relevant for classification
<b>Oxidizing properties:</b>	Value not relevant for classification

**9.2 Other information** No data available.

<b>SECTION 10: Stability and reactivity</b>
---

<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.

---

**Product name:** TITAN FRICOFIN 50

---

**10.6 Hazardous Decomposition Products:** Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

<b>11 TOXICOLOGICAL INFORMATION</b>
-------------------------------------

**Information on likely routes of exposure**

**Inhalation:** No data available.

**Ingestion:** No data available.

**Skin Contact:** No data available.

**Eye contact:** No data available.

**Acute toxicity****Oral**

**Product:**

ATEmix: 3,355.01 mg/kg

**Specified substance(s)**

Ethanediol

LD 50 (Human): 1,600 mg/kg

Na-Sebacat

LD 50 (Rat): > 5,000 mg/kg (OECD 401)

**Dermal**

**Product:**

ATEmix: 7,339.08 mg/kg

**Specified substance(s)**

Ethanediol

LD 50 (Mouse): 3,500 mg/kg

**Inhalation**

**Product:**

Not classified for acute toxicity based on available data.

**Skin Corrosion/Irritation:**

**Product:**

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

**Specified substance(s)**

Ethanediol

(Rabbit, 20 h): Not irritating

**Serious Eye Damage/Eye Irritation:**

**Product:**

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

**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)**

Ethanediol

No sensitizing effect (guinea pig); OECD 406

---

**Product name:** TITAN FRICOFIN 50

---

**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.

**IARC: IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

No carcinogenic components identified

**NTP: US. National Toxicology Program (NTP) Report on Carcinogens:**

No carcinogenic components identified

**OSHASp: US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):**

No carcinogenic components identified

**Reproductive toxicity**

**Product:** Based on available data, the classification criteria are 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 met.

**Specified substance(s)**

Ethenediol

Kidney

May cause damage to kidneys through prolonged or repeated exposure if swallowed

**Aspiration Hazard**

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

<b>12 ECOLOGICAL INFORMATION</b>
----------------------------------

**General information:** Not applicable

**12.1 Toxicity****Acute toxicity**

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

**Fish****Specified substance(s)**

Ethenediol

LC 50 (Fish, 96 h): 72,860 mg/l

Na-Sebacat

LC 50 (Fish, 96 h): > 101 mg/l

**Aquatic Invertebrates****Specified substance(s)**

Ethenediol

EC 50 (Water Flea, 48 h): > 100 mg/l (OECD 202)

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



---

**Product name:** TITAN FRICOFIN 50

---

**Fish****Specified substance(s)**

Ethanediol

NOEC (Fish, 7 d): 15,380 mg/l

**Aquatic Invertebrates****Specified substance(s)**

Ethanediol

NOEC (Water Flea, 7 d): 8,590 mg/l

**12.2 Persistence and Degradability****Biodegradation****Product:**

Not applicable for mixtures

**Specified substance(s)**

Ethanediol

&gt; 90 % (10 d, OECD 301A) The product is easily 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:**

No data available.

**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.

**14 TRANSPORT INFORMATION****DOT**

Not Regulated.

**TDG**

Not Regulated.

**IMDG - International Maritime Dangerous Goods Code**

Not Regulated.

**IATA**

Not Regulated.

**15 REGULATORY INFORMATION****US Federal Regulations**

---

**Product name:** TITAN FRICOFIN 50

---

**US State Regulations****US. California Proposition 65**

WARNING! This product can expose you to chemicals including

ETHYLENE GLYCOL (INGESTED)	which is [are] known to the State of California to cause birth defects or other reproductive harm.
----------------------------	--

For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).**Inventory Status**

TSCA	E (special case)
------	------------------

**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.
H319	Causes serious eye irritation.
H360	May damage fertility or the unborn child.
H360D	May damage the unborn child.
H360FD	May damage fertility. May damage the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.

**Revision Date:** 10.05.2024

**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 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.