

# SAFETY DATA SHEET

acc.to ISO/DIS 11014 for USA

## 1 PRODUCT AND COMPANY IDENTIFICATION

### 1.1 Product identifier

**Product name:** MAINTAIN FRICOFIN HDD

**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

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

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

#### Manufacturer

Fuchs Schmierstoffe GmbH  
Friesenheimer Str. 19  
68169 Mannheim

Mexico Distributor  
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## 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

Acute toxicity (Oral) Category 4

Specific Target Organ Toxicity - Repeated Exposure Category 2

#### Hazard summary

**Physical Hazards:** No data available.

**Product name:** MAINTAIN FRICOFIN HDD

## 2.2 Label Elements



**Signal Words:** Warning

**Hazard Statement(s):** H302: Harmful if swallowed.  
H373: May cause damage to organs through prolonged or repeated exposure.

### Precautionary Statements

**Prevention:** P264: Wash thoroughly after handling.  
P270: Do not eat, drink or smoke when using this product.  
P260: Do not breathe dust or mists.

**Response:** P301+P312: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.  
P330: Rinse mouth.  
P314: Get medical advice/attention if you feel unwell.

**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

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

Chemical name	Identifier	Concentration *	Notes
Ethanediol	107-21-1	90.00 - <95.00%	
sodium borate	12179-04-3	0.00 - <1.00%	

\* 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.

**Product name:** MAINTAIN FRICOFIN HDD

#### Classification

Chemical name	Identifier	Classification
Ethanediol	107-21-1	Acute Tox. 4;H302, STOT RE 2;H373
sodium borate	12179-04-3	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. Call a POISON CENTER/doctor if you feel unwell.

**4.2 Most important symptoms and effects, both acute and delayed:** Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

**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.

**Special protective equipment for fire-fighters:** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Product name:** MAINTAIN FRICOFIN HDD

## 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.
- Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk.

## 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. Prevent formation of aerosols. 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.
- 7.3 Specific end use(s):** Not applicable

## 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1.Exposure Limits

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

### 8.2.Exposure controls

**Product name:** MAINTAIN FRICOFIN HDD

**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 eyes. 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.

**Environmental Controls:** No data available.

## 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>	Yellow
<b>Odor:</b>	Characteristic
<b>Odor Threshold:</b>	Not applicable for mixtures

**Product name:** MAINTAIN FRICOFIN HDD

<b>pH:</b>	7.5 - 8.6 (500 g/l)
<b>Freezing point:</b>	-34 °C
<b>Boiling Point:</b>	197 °C
<b>Flash Point:</b>	115 °C
<b>Evaporation Rate:</b>	Not applicable for mixtures
<b>Flammability (solid, gas):</b>	Value not relevant for classification
<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>Vapor density (air=1):</b>	Not applicable for mixtures
<b>Density:</b>	1.12 g/cm <sup>3</sup> (15 °C)
<b>Solubility(ies)</b>	
<b>Solubility in Water:</b>	The product is soluble in water.
<b>Solubility (other):</b>	No data available.
<b>Partition coefficient (n-octanol/water):</b>	Not applicable for mixtures
<b>Autoignition Temperature:</b>	Value not relevant for classification
<b>Decomposition Temperature:</b>	Value not relevant for classification
<b>Kinematic viscosity:</b>	9.9 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>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.

## 11 TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

<b>Inhalation:</b>	No data available.
<b>Ingestion:</b>	Harmful if swallowed.
<b>Skin Contact:</b>	No data available.
<b>Eye contact:</b>	No data available.

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**Product name:** MAINTAIN FRICOFIN HDD

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**Acute toxicity**

**Oral**

**Product:** ATEmix: 1,720 mg/kg  
**Specified substance(s)**  
 Ethanediol LD 50 (Human): 1,600 mg/kg

**Dermal**

**Product:** Not classified for acute toxicity based on available data.  
**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.

**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

**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 not met.

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**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.

**Aspiration Hazard**

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

## 12 ECOLOGICAL INFORMATION

### 12.1 Toxicity

**Acute toxicity**

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

**Fish**

**Specified substance(s)**

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

**Aquatic Invertebrates**

**Specified substance(s)**

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

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

**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 > 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.



**Product name:** MAINTAIN FRICOFIN HDD

## 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.

### IMDG - International Maritime Dangerous Goods Code

Not regulated.

### IATA

Not regulated.

## 15 REGULATORY INFORMATION

### US Federal Regulations

### US State Regulations

#### US. California Proposition 65

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

### Inventory Status

DSL	y
TSCA	y

## 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.
H360FD	May damage fertility. May damage the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.

**Revision Date:** 02.04.2020

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**Product name:** MAINTAIN FRICOFIN HDD

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**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.