

## 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:** MAINTAIN FRICOFIN LL 50

#### 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

#### 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 Emergency telephone number:** +49 621 3701-0 (Mo - Fr 08:00 - 16:00 Uhr)

### 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.

##### Health Hazards

Acute toxicity (Oral) Category 4 H302: Harmful if swallowed.

**Toxic to reproduction Category 1B H360D: May damage the unborn child.**

Specific Target Organ Toxicity - Repeated Exposure Category 2 H373: May cause damage to organs through prolonged or repeated exposure.

Product name: MAINTAIN FRICOFIN LL 50

#### Hazard summary

Physical Hazards: No data available.

## 2.2 Label Elements

Contains: Glycol  
Na-salt of carboxylic acid



Signal Words: **Danger**

Hazard Statement(s):  
H302: Harmful if swallowed.  
H360D: May damage the unborn child.  
H373: May cause damage to organs through prolonged or repeated exposure.

#### Precautionary Statements

Prevention:  
P201: Obtain special instructions before use.  
P260: Do not breathe dust/fume/gas/mist/vapors/spray.  
P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:  
P312: Call a POISON CENTER or doctor/ physician if you feel unwell.  
P308+P313: IF exposed or concerned: Get medical advice/attention.

#### Supplemental label information

**Restricted to professional users.**

## 2.3 Information on 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.

#### Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

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

**Product name:** MAINTAIN FRICOFIN LL 50

Chemical name	Identifier	Concentration *	REACH Registration No.	Notes
Glycol	EINECS: 203-473-3	25,00% - <50,00%	01-2119456816-28	
Na-salt of carboxylic acid	EINECS: 243-283-8	1,00% - <5,00%	01-2119979083-31	
Tolyl triazole	EINECS: 249-596-6	0,10% - <1,00%	01-2119979081-35	

\* 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
Glycol	EINECS: 203-473-3	CLP: STOT RE 2;H373, Acute Tox. 4;H302
Na-salt of carboxylic acid	EINECS: 243-283-8	CLP: Repr. 1B;H360D
Tolyl triazole	EINECS: 249-596-6	CLP: Acute Tox. 4;H302, Repr. 2;H361d, Aquatic Chronic 2;H411

CLP: Regulation No. 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. Call a POISON CENTER or doctor/ physician 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.

**Product name:** MAINTAIN FRICOFIN LL 50

### 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.

## 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 eat, drink or smoke when working with the product. Take usual precautions when handling mineral oil products or chemical products. 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. 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

## SECTION 8: Exposure controls/personal protection

### 8.1 Control Parameters

#### Occupational Exposure Limits

Chemical name	Type	Exposure Limit Values	Source
---------------	------	-----------------------	--------

**Product name:** MAINTAIN FRICOFIN LL 50

Glycol	TWA	20 ppm    52 mg/m <sup>3</sup>	EU. Indicative Occupational Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended (12 2009)
Glycol	STEL	40 ppm    104 mg/m <sup>3</sup>	EU. Indicative Occupational Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended (12 2009)
Glycol - Vapor and aerosol.	AGW	10 ppm    26 mg/m <sup>3</sup>	Germany. TRGS 900, Occupational Exposure Limits (AGW), as amended (09 2013)

**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:**

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.

Product name: MAINTAIN FRICOFIN LL 50

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

Physical state:	liquid
Form:	liquid
Color:	Orange
Odor:	Characteristic
pH:	8,0 - 9,0 (100 %)
Freezing point:	not determined
Boiling Point:	not determined
Flash Point:	Value not relevant for classification
Evaporation Rate:	Not applicable for mixtures
Flammability (solid, gas):	not determined
Explosion Limit - Upper (%):	Not applicable for mixtures
Explosion Limit - Lower (%):	Not applicable for mixtures
Vapor pressure:	Not applicable for mixtures
Relative vapor density:	Not applicable for mixtures
Density:	1,07 g/cm <sup>3</sup> (15 °C) (DIN EN ISO 12185)
Solubility(ies)	
Solubility in Water:	Soluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	Not applicable for mixtures
Auto-ignition temperature:	not determined
Decomposition Temperature:	not determined
Kinematic viscosity:	3 mm <sup>2</sup> /s (40 °C, DIN EN ISO 3104)
Explosive properties:	Value not relevant for classification
Oxidizing properties:	Value not relevant for classification
Particle characteristics:	Not applicable

### 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.

Product name: MAINTAIN FRICOFIN LL 50

## SECTION 11: Toxicological information

### Information on likely routes of exposure

Inhalation:	No data available.
Ingestion:	Harmful if swallowed.
Skin Contact:	No data available.
Eye contact:	No data available.

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

##### Oral

Product:	ATEmix: 1.009 mg/kg
Specified substance(s)	
Tolyl triazole	LD 50 (Rat): 720 mg/kg (OECD 401)

##### Dermal

Product:	Not classified for acute toxicity based on available data.
Specified substance(s)	
Glycol	LD 50 (Rabbit): 9.530 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)	
Tolyl triazole	OECD 404 (Rabbit): Not irritant.

##### Serious Eye Damage/Eye Irritation:

Product:	Based on available data, the classification criteria are not met.
Specified substance(s)	
Tolyl triazole	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)	
Tolyl triazole	No sensitizing effect (guinea pig); OECD 406

##### Germ Cell Mutagenicity

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

**Product name:** MAINTAIN FRICOFIN LL 50

**Carcinogenicity**

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

**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.

**Aspiration Hazard**

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

**11.2 Information on other hazards****Endocrine disrupting properties**

**Product:** The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**SECTION 12: Ecological information****12.1 Toxicity****Acute toxicity**

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

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

Glycol LC 50 (Fish, 96 h): > 18.500 mg/l

Tolyl triazole LL 50 (Fish, 96 h): 180 mg/l

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

Glycol LC 50 (Water Flea, 48 h): 46.300 mg/l

Tolyl triazole EL50 (Water Flea, 48 h): 8,58 mg/l

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

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

Tolyl triazole EC 10 (Water Flea, 21 d): 0,4 mg/l

**Toxicity to Aquatic Plants****Specified substance(s)**

Tolyl triazole EL50 (Alga, 72 h): 75 mg/l  
EC 10 (Alga, 72 h): 1,18 mg/l

**12.2 Persistence and Degradability**



**Product name:** MAINTAIN FRICOFIN LL 50

## Biodegradation

**Product:** Not applicable for mixtures  
**Specified substance(s)**  
 Toly triazole 4 % (28 d, OECD 301F) Not 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 Endocrine disrupting properties

**Product:** The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## 12.7 Other adverse effects:

No data available.

## Water Hazard Class (WGK):

WGK 1: slightly water-endangering. WGK 1: slightly water-endangering.

## 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

16 01 14\*: antifreeze fluids containing hazardous substances

**Product name:** MAINTAIN FRICOFIN LL 50

## SECTION 14: Transport information

### ADR/RID

- 14.1 UN number or ID 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 or ID 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 or ID 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 Maritime transport in bulk according to IMO instruments:** Not applicable.

## 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

**Regulation (EC) No. 649/2012 Import and export of dangerous chemicals:** none

**Product name:** MAINTAIN FRICOFIN LL 50

### National Regulations

Product is subject to the regulation on prohibition and restriction of the placing on the market and on the dispensing of certain substances, mixtures and articles according the Chemicals Act (Chemikalien-Verbotsverordnung - ChemVerbotsV).

### Water Hazard Class (WGK):

WGK 1: slightly water-endangering. WGK 1: slightly water-endangering.

### 15.2 Chemical safety assessment:

No Chemical Safety Assessment has been carried out.

### DIRECTIVE 2012/18/EU (SEVESO III) on the control of major-accident hazards involving dangerous substances

Not applicable

### 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.
H360D	May damage the unborn child.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic 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:

01.12.2023

#### 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.