

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

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 / Supplier

FUCHS LUBRICANTS (UK) PLC.
New Century Street
Hanley
Stoke-on-Trent, Staffordshire, ST1 5HU
UK

Telephone:

+44 (0) 1782 203700

Contact Person:

Telephone:

E-mail:

Product Safety department
+44 (0) 1782 203700
product.safety@fuchs-oil.com

1.4 Emergency telephone number:

UK NHS: Dial 111. Ireland NPIS: Dial +353 1 8092566.

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

Specific Target Organ Toxicity - Repeated Exposure	Category 2	H373: May cause damage to organs through prolonged or repeated exposure.
Toxic to reproduction	Category 2	H361d: Suspected of damaging the unborn child.
Acute toxicity (Oral)	Category 4	H302: Harmful if swallowed.

Hazard summary

Physical Hazards: No data available.

2.2 Label Elements

Product name: MAINTAIN FRICOFIN LL

Contains: Glycol
Na-salt of carboxylic acid



Signal Words: Warning

Hazard Statement(s): H361d: Suspected of damaging the unborn child.
H302: Harmful if swallowed.
H373: May cause damage to organs through prolonged or repeated exposure.

Precautionary Statement

General information: P101: If medical advice is needed, have product container or label at hand.
P102: Keep out of reach of children.

Prevention: P260: Do not breathe dust/fume/gas/mist/vapors/spray.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response: P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor.

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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

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

Chemical name	Identifier	Concentration *	REACH Registration No.	Notes
Glycol	EINECS: 203-473-3	>=50,00 - <99,00%	01-2119456816-28	
Na-salt of carboxylic acid	EINECS: 243-283-8	>=2,40 - <5,00%		

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

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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. 2;H361d

CLP: Regulation No. 1272/2008.

For the wording of the listed risk phrases refer to section 16.

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. The product is not skin irritating.

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: CO₂, 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.

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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.
- 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. 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

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
Glycol - Vapor.	TWA	20 ppm	52 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)
Glycol - Vapor.	STEL	40 ppm	104 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)

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Glycol - Particulate.	TWA	10 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)
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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.

Skin protection

Hand Protection:

Material: 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:

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

Physical state:

liquid

Form:

liquid

Color:

Orange

Odor:

Characteristic

Product name: MAINTAIN FRICOFIN LL

Odor Threshold:	Not applicable for mixtures
pH:	8,6 (, 20 °C)
Freezing point:	-18 °C
Boiling Point:	175 °C
Flash Point:	115 °C
Evaporation Rate:	Not applicable for mixtures
Flammability (solid, gas):	Value not relevant for classification
Flammability Limit - Upper (%)—:	Not applicable for mixtures
Flammability Limit - Lower (%)—:	Not applicable for mixtures
Vapor pressure:	Not applicable for mixtures
Vapor density (air=1):	Not applicable for mixtures
Density:	1,10 g/cm ³ (20 °C)
Solubility(ies)	
Solubility in Water:	Soluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	Not applicable for mixtures
Autoignition Temperature:	Value not relevant for classification
Decomposition Temperature:	Value not relevant for classification
Flow time	Value not relevant for classification
Explosive properties:	Value not relevant for classification
Oxidizing properties:	Value not relevant for classification
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.

SECTION 11: Toxicological information

Information on likely routes of exposure

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

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Eye contact: No data available.

11.1 Information on toxicological effects

Acute toxicity

Oral

Product: ATEmix: 1.720 mg/kg
Specified substance(s)
 Glycol LD 50 (Rat): 5.840 mg/kg
 Na-salt of carboxylic acid No data available.

Dermal

Product: No data available.
Specified substance(s)
 Glycol LD 50 (Rabbit): 9.530 mg/kg
 Na-salt of carboxylic acid No data available.

Inhalation

Product: No data available.
Specified substance(s)
 Glycol No data available.
 Na-salt of carboxylic acid No data available.

Repeated dose toxicity

Product: No data available.
Specified substance(s)
 Glycol No data available.
 Na-salt of carboxylic acid No data available.

Skin Corrosion/Irritation:

Product: No data available.
Specified substance(s)
 Glycol No data available.
 Na-salt of carboxylic acid No data available.

Serious Eye Damage/Eye Irritation:

Product: No data available.
Specified substance(s)
 Glycol No data available.
 Na-salt of carboxylic acid No data available.

Respiratory or Skin Sensitization:

Product: No data available.
Specified substance(s)
 Glycol No data available.
 Na-salt of carboxylic acid No data available.

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Germ Cell Mutagenicity

In vitro

Product: No data available.

Specified substance(s)

Glycol No data available.
Na-salt of carboxylic acid No data available.

In vivo

Product: No data available.

Specified substance(s)

Glycol No data available.
Na-salt of carboxylic acid No data available.

Carcinogenicity

Product: No data available.

Specified substance(s)

Glycol No data available.
Na-salt of carboxylic acid No data available.

Reproductive toxicity

Product: Suspected of damaging fertility or the unborn child.

Specified substance(s)

Glycol No data available.
Na-salt of carboxylic acid No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specified substance(s)

Glycol No data available.
Na-salt of carboxylic acid No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Specified substance(s)

Glycol No data available.
Na-salt of carboxylic acid No data available.

Aspiration Hazard

Product: No data available.

Specified substance(s)

Glycol No data available.
Na-salt of carboxylic acid No data available.

Other Adverse Effects: No data available.

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SECTION 12: Ecological information

12.1 Toxicity

Acute toxicity

Fish

Product: No data available.

Specified substance(s)

Glycol LC 50 (Fish, 96 h): > 18.500 mg/l
Na-salt of carboxylic acid No data available.

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

Glycol LC 50 (Water Flea, 48 h): 46.300 mg/l
Na-salt of carboxylic acid No data available.

Chronic Toxicity

Fish

Product: No data available.

Specified substance(s)

Glycol No data available.
Na-salt of carboxylic acid No data available.

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

Glycol No data available.
Na-salt of carboxylic acid No data available.

Toxicity to Aquatic Plants

Product: No data available.

Specified substance(s)

Glycol No data available.
Na-salt of carboxylic acid No data available.

12.2 Persistence and Degradability

Biodegradation

Product: No data available.

Specified substance(s)

Glycol No data available.
Na-salt of carboxylic acid No data available.

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12.3 Bioaccumulative Potential

Product: No data available.

Specified substance(s)

Glycol No data available.
Na-salt of carboxylic acid No data available.

12.4 Mobility in Soil: No data available.

Known or predicted distribution to environmental compartments

Glycol No data available.
Na-salt of carboxylic acid No data available.

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.

Water Hazard Class (WGK): 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

14 06 03*: other solvents and solvent mixtures

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: —

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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:

National Regulations

Water Hazard Class (WGK): WGK 1: slightly 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.

Product name: MAINTAIN FRICOFIN LL

Wording of the H-statements in section 2 and 3

H302	Harmful if swallowed.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.

Other information: The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies. The classification results from the Conventional Method mentioned in regulation EU 1272/2008 (CLP).

Revision Date: 03.12.2015

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.