

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name: MAINTAIN FRICOFIN

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 (UK) PLC.
New Century Street
ST1 5HU Hanley
Telephone: +44 (0) 1782 203700

Contact Person: Product Safety department
E-mail: product.safety@fuchs.com
Telephone: +44 (0) 1782 203700

1.4 Emergency telephone number: UK NHS: Dial 111

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has been classified and labelled as hazardous according to regulation GB-CLP.

Classification according to GB-CLP.

Health Hazards

Acute toxicity (Oral)	Category 4	H302: Harmful if swallowed.
Toxic to reproduction	Category 1B	H360FD: May damage fertility. May damage the unborn child.
Specific Target Organ Toxicity - Repeated Exposure	Category 2	H373: May cause damage to organs through prolonged or repeated exposure.

Hazard summary

Physical Hazards: No data available.

2.2 Label Elements

Contains: Ethanediol
Na-salt of carboxylic acid
Disodium tetraborate, anhydrous

Product name: MAINTAIN FRICOFIN



Signal Words: Danger

Hazard Statement(s): H302: Harmful if swallowed.
H360FD: May damage fertility. 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: 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.

Supplemental label information

Restricted to professional users.

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.

Product name: MAINTAIN FRICOFIN

Chemical name	Identifier	Concentration *	UK-REACH Registration No.	Notes
Ethanediol	EINECS: 203-473-3	$\geq 75,00\%$ - $\leq 100,00\%$		
Na-salt of carboxylic acid	EINECS: 243-283-8	$\geq 1,00\%$ - $< 3,00\%$		
Na-Sebacat	EINECS: 241-300-3	$\geq 1,00\%$ - $< 3,00\%$		
Disodium tetraborate, anhydrous	EINECS: 215-540-4	$\geq 0,30\%$ - $< 1,00\%$		**

* 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.

** UK-REACH Candidate List of SVHC for authorisation

Classification

Chemical name	Identifier	Classification	
Ethanediol	EINECS: 203-473-3	GBCLP:	Acute Tox. 4;H302, STOT RE 2;H373
Na-salt of carboxylic acid	EINECS: 243-283-8	GBCLP:	Repr. 1B;H360D
Na-Sebacat	EINECS: 241-300-3	GBCLP:	Eye Irrit. 2;H319
Disodium tetraborate, anhydrous	EINECS: 215-540-4	GBCLP:	Repr. 1B;H360FD, Eye Irrit. 2;H319

GB-CLP

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: 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.

Product name: MAINTAIN FRICOFIN

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.

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:

6.1 C, Combustible substances of acute toxicity, category 3 / hazardous substances that are toxic or produce chronic effects

Product name: MAINTAIN FRICOFIN

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Occupational Exposure Limits

Chemical name	Type	Exposure Limit Values	Source
Ethanediol - Vapor.	TWA	20 ppm 52 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)
Ethanediol - Vapor.	STEL	40 ppm 104 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)
Ethanediol - Particulate.	TWA	10 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)
Disodium tetraborate, anhydrous	TWA	1 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)

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: ≥ 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.

Product name: MAINTAIN FRICOFIN

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: Dark green
Odor: Characteristic
pH: 7,2 (1.122 g/l, 20 °C)

Freezing point: < -18 °C

Boiling Point: > 165 °C

Flash Point: 120 °C

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: 1,12 g/cm³ (20 °C)

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: 20 - 30 mm²/s (20 °C)

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.

Product name: MAINTAIN FRICOFIN

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
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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 toxicological effects

Acute toxicity

Oral

Product:

Specified substance(s)

Ethenediol

LD 50 (Human): 1.600 mg/kg

Dermal

Product:

Specified substance(s)

Ethenediol

Not classified for acute toxicity based on available data.

LD 50 (Mouse): 3.500 mg/kg

Inhalation

Product:

Not classified for acute toxicity based on available data.

Skin Corrosion/Irritation:

Product:

Specified substance(s)

Ethenediol

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

(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)

Ethenediol

No sensitizing effect (guinea pig); OECD 406

Product name: MAINTAIN FRICOFIN

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.

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)

Ethanediol

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.

Other adverse effects:

No data available.

SECTION 12: Ecological information

General information: Not applicable Not applicable

12.1 Toxicity

Acute toxicity

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

Fish

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

Aquatic Invertebrates

Product: EC 50 (Water Flea, 48 h): > 101 mg/l

Chronic Toxicity

Product: 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

Toxicity to Aquatic Plants

Product: EC 50 (Alga, 72 h): > 101 mg/l

12.2 Persistence and Degradability

Product name: MAINTAIN FRICOFIN

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.

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.

List of Waste (LoW) Codes

16 01 14*: antifreeze fluids containing hazardous substances

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: —

Product name: MAINTAIN FRICOFIN

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 Transport in bulk according to Annex II of MARPOL and the IBC Code: Not applicable.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

GB Regulations

The Ozone-Depleting Substances and Fluorinated Greenhouse Gases (Amendment etc.) (EU Exit) Regulations 2019:
none

The Persistent Organic Pollutants (Amendment) (EU Exit) Regulations 2020:
none

National Regulations

Water Hazard Class (WGK): WGK 1: slightly water-endangering.

15.2 Chemical safety assessment: No Chemical Safety Assessment has been carried out.

DIRECTIVE Control of Major Accident Hazards Regulations 2015:

Not applicable

SECTION 16: Other information

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

Product name: MAINTAIN FRICOFIN

Wording of the H-statements in section 2 and 3

H302	Harmful if swallowed.
H319	Causes serious eye irritation.
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.

Other information:

The classification complies with the current GB 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:

17.11.2023

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.