

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: SILKOLENE UNIV BRAKE/CLUTCH

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

Identified uses: Brake fluid

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

Serious eye irritation Category 2 H319: Causes serious eye irritation.

Toxic to reproduction Category 2 H361fd: Suspected of damaging fertility. Suspect-

ed of damaging the unborn child.

Hazard summary

Physical Hazards: No data available.

2.2 Label Elements

Contains: Alkyl diglycole

Triethylene glycol monomethyl ether borate

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Product name: SILKOLENE UNIV BRAKE/CLUTCH



Signal Words: Warning

Hazard Statement(s): H319: Causes serious eye irritation.

H361fd: Suspected of damaging fertility. Suspected of damaging the

unborn child.

Precautionary Statements

Prevention: P280: Wear protective gloves/protective clothing/eye protection/face

protection.

Response: P305+P351+P338: IF IN EYES: Rinse cautiously with water for several

minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

P337+P313: If eye irritation persists: Get medical advice/attention. P301+P310: IF SWALLOWED: Immediately call a POISON CEN-

TER/doctor/...

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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

General information:

Chemical name	Identifier	Concentration *	UK-REACH Regis- tration No.	Notes
Glycol derivative	EINECS: 205-592-6	30,00% - <50,00%		
Triethylene glycol monomethyl ether borate	EINECS: 250-418-4	20,00% - <50,00%		
Diglycol	EINECS: 203-872-2	10,00% - <25,00%		
3,6,9,12-tetraoxahexadecan-1-ol	EINECS: 216-322-1	5,00% - <10,00%		
Glycol derivative	EINECS: 203-961-6	1,00% - <5,00%		
Alkyl diglycole	EINECS: 203-906-6	0,10% - <1,00%		

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

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PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.



Product name: SILKOLENE UNIV BRAKE/CLUTCH

Classification

Chemical name	Identifier	Classifi	Classification	
Glycol derivative	EINECS: 205-592-6	GBCLP:	Eye Dam. 1;H318	
Triethylene glycol monomethyl ether borate	EINECS: 250-418-4	GBCLP:	Repr. 2;H361d	
Diglycol	EINECS: 203-872-2	GBCLP:	Acute Tox. 4;H302	
3,6,9,12-tetraoxahexadecan-1-ol	EINECS: 216-322-1	GBCLP:	Eye Irrit. 2;H319	
Glycol derivative	EINECS: 203-961-6	GBCLP:	Eye Irrit. 2;H319	
Alkyl diglycole	EINECS: 203-906-6	GBCLP:	Repr. 2;H361d	

GB-CLP

specific concentration limit

Chemical name		specific concentra- tion limit	Hazard class	Category	Hazard state- ments
Glycol derivative	EINECS: 205-592-6	>= 30 %	Serious eye damage	1	H318
		20 - < 30 %	Serious eye irritation	2	H319

For the wording of the listed hazard statements 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: Immediately flush with plenty of water for at least 15 minutes. If easy to do,

remove contact lenses. Get medical attention.

Skin Contact: Wash with soap and water.

Ingestion: Rinse mouth thoroughly.

4.2 Most important symptoms and effects, both acute and

delayed:

Causes serious 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 me-

dia:

CO2, fire extinguishing powder or fog like water spraying. Extinguish larger fires with alcohol resistant foam or spray water with suitable surfactant add-

ed

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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 inaccordance 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. Keep away from sources of ignition - No smoking.

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:

Avoid contact with eyes. Wash hands thoroughly after 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 incompatibili-

Store locked up.

7.3 Specific end use(s): Not applicable

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Product name: SILKOLENE UNIV BRAKE/CLUTCH

Storage Class: 10, Combustible liquids

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Occupational Exposure Limits

Chemical name	Туре	Exposure Limit Values		Source
Diglycol	TWA	23 ppm	101 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)
Glycol derivative	TWA	10 ppm	67,5 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)
Glycol derivative	STEL	15 ppm	101,2 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)
Alkyl diglycole	TWA	10 ppm	50,1 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 equip-

ment 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 ad-

hered to inhandling the chemicals or the mineral oil products.

Eye/face protection: Safety glasses (EN 166) recommended during refilling. 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: >= 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 manufactur-

er of the protective gloves and has to be observed.

Other: Do not carry cleaning cloths impregnated with the product in trouser pock-

ets. Wear suitable protective clothing.

Respiratory Protection: Ensure good ventilation/exhaustion at the workplace. Avoid breathing va-

pour/ aerosol.

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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 foot-

wear 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: Pale amber
Odor: Characteristic
pH: 8,5 (100 %, 20 °C)
Freezing point: not determined
Boiling Point: not determined

Flash Point: > 93 °C

Evaporation Rate: Not applicable for mixtures

Flammability (solid, gas): not determined

Flammability Limit - Upper (%)—:

Flammability Limit - Lower (%)—:

Vapor pressure:

Relative vapor density:

Not applicable for mixtures

Not applicable for mixtures

Not applicable for mixtures

Density: 1,01 g/cm3 (15 °C)

Solubility(ies)

Solubility in Water: Soluble

Solubility (other):No data available.

Partition coefficient (n-octanol/water): Not applicable for mixtures

Autoignition Temperature: not determined Decomposition Temperature: not determined

Flow time Value not relevant for classification
Explosive properties: Value not relevant for classification
Oxidizing properties: Value not relevant for classification

Particle characteristics:Not applicable9.2 Other informationNo data available.

SECTION 10: Stability and reactivity

10.1 Reactivity: Stable under normal use conditions.

10.2 Chemical Stability: Stable under normal use conditions.

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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 oth-

er toxic gases or vapors.

SECTION 11: Toxicological information

Information on likely routes of exposure

Inhalation: No data available.

Ingestion: No data available.

Skin Contact: No data available.

Eye contact: Causes eye irritation.

11.1 Information on toxicological effects

Acute toxicity

Oral

Product: ATEmix: 8.615 mg/kg

Specified substance(s)

Glycol derivative LD 50 (Rat): 6.730 mg/kg

Diglycol LD 50 (Rat): 12.565 mg/kg

LD 50 (Human): 1.120 mg/kg

Glycol derivative LD 50 (Rat): 3.384 mg/kg

Alkyl diglycole LD 50 (Rat): 9.210 mg/kg

Dermal

Product: ATEmix: 43.333 mg/kg

ATEmix: 68.421,05 mg/kg

Specified substance(s)

Glycol derivative LD 50 (Rabbit): 3.540 mg/kg

Diglycol LD 50 (Rabbit): 11.890 mg/kg

Glycol derivative LD 50 (Rabbit): 2.700 mg/kg

Alkyl diglycole LD 50 (Rabbit): 650 mg/kg

Inhalation

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

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Skin Corrosion/Irritation:

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

Specified substance(s)

Triethylene glycol OECD 404 (Rabbit):

monomethyl ether borate Not irritant.

Diglycol OECD 404 (Rabbit):

Not irritant.

Serious Eye Damage/Eye Irritation:

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

Specified substance(s)

Triethylene glycol OECD 405 (Rabbit):

monomethyl ether borate 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)

Triethylene glycol

monomethyl ether borate No sensitizing effect (guinea pig); OECD 406

Diglycol

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.

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 not met.

Aspiration Hazard

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

Other adverse effects: No data available.

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Product name: SILKOLENE UNIV BRAKE/CLUTCH

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

Specified substance(s)

Glycol derivative LC 50 (Fathead minnow (Pimephales promelas), 96 h): 2.400 mg/l

Triethylene glycol

monomethyl ether borate

LC 50 (Fish, 96 h): > 222,2 mg/l (OECD 203)

Diglycol LC 50 (Fish, 96 h): > 32.000 mg/l

Glycol derivative LC 50 (Fish, 96 h): 1.300 mg/l

Aquatic Invertebrates Specified substance(s)

Glycol derivative EC 50 (Water Flea, 48 h): > 500 mg/l

Triethylene glycol

monomethyl ether borate

EC 50 (Water Flea, 48 h): > 211,2 mg/l (OECD 202)

Diglycol EC 50 (Water Flea, 48 h): > 10.000 mg/l

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

Chronic Toxicity

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

Toxicity to Aquatic Plants Specified substance(s)

Glycol derivative EC 50 (Alga, 72 h): 612,6 mg/l

Triethylene glycol

monomethyl ether borate

EC 50 (Alga, 72 h): > 224,4 mg/l (OECD 201)

3,6,9,12-

tetraoxahexadecan-1-ol

EC 50 (Alga, 96 h): > 100 mg/l

Glycol derivative EC 50 (Alga, 96 h): > 101 mg/l

12.2 Persistence and Degradability

Biodegradation

Product: Not applicable for mixtures

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Specified substance(s)

Triethylene glycol >

monomethyl ether borate

> 70 % (10 d, OECD 301A)

Diglycol 92 % (28 d, OECD 301A)

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 crite-

ria.

12.6 Other adverse effects: No data available.

Water Hazard Class

(WGK):

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

13 01 11*: synthetic hydraulic oils

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)

14.6 Special precautions for user:

Class: Non-dangerous goods

Label(s): –
Hazard No. (ADR): –
Tunnel restriction code: –

14.4 Packing Group: –

14.5 Environmental hazards: –

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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

15.2 Chemical safety as-

sessment:

No Chemical Safety Assessment has been carried out.

DIRECTIVE Control of Major Accident Hazards Regulations 2015:

The product does not fall into the scope of the Control of Major Accident Hazards Regulations 2015.

SECTION 16: Other information

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

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Product name: SILKOLENE UNIV BRAKE/CLUTCH

Wording of the H-statements in section 2 and 3

H302 Harmful if swallowed.

H318 Causes serious eye damage. H319 Causes serious eye irritation.

H361d Suspected of damaging the unborn child.

H361fd Suspected of damaging fertility. Suspected of damaging the unborn

child.

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 simi-

lar mixtures"; Expert Judgement

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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 sig-

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