

# **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: 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** 

Hanley

Stoke-on-Trent, Staffordshire, ST1 5HU

UK

Telephone: +44 (0) 1782 203700

**Contact Person:** Product Safety department Telephone: +44 (0) 1782 203700

E-mail: 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** 

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

**Hazard summary** 

Physical Hazards: No data available.

#### 2.2 Label Elements

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Signal Words: Warning

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

**Precautionary Statements** 

**Prevention:** P262: Do not get in eyes, on skin, or on clothing.

**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:**

Chemical name	Identifier		REACH Registration No.	Notes
Glycol derivative	EINECS: 205-592-6	20,00 - <30,00%	01-2119475107-38	
Diglycol	EINECS: 203-872-2	10,00 - <25,00%	01-2119457857-21	
Alkyl diglycole	EINECS: 203-906-6	1,00 - <3,00%	01-2119475100-52	

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#### Classification

Chemical name	Identifier	Classification	
Glycol derivative	EINECS: 205-592-6	CLP:	Eye Dam. 1;H318
Diglycol	EINECS: 203-872-2	CLP:	Acute Tox. 4;H302
Alkyl diglycole	EINECS: 203-906-6	CLP:	Repr. 2;H361d

CLP: Regulation No. 1272/2008.

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.

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PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.



**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

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 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.

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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. 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

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) (12 2011)
Alkyl diglycole	TWA	10 ppm	50,1 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (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 inhandling the chemicals or the mineral oil products.

**Eye/face protection:** Safety glasses (EN 166) recommended during refilling.

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Skin protection

Hand Protection: Material: Nitrile-butadiene 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

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: Colorless Odor: Characteristic

**Odor Threshold:** Not applicable for mixtures

8,5 (, 20 °C) :Ha

Freezing point: Not applicable for mixtures

**Boiling Point:** Value not relevant for classification

Flash Point: > 93 °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: 1,01 g/cm3 (15 °C)

Solubility(ies)

Solubility in Water: Soluble

Solubility (other): No data available.

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

Autoignition Temperature:

Decomposition Temperature:

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:** No data available.

**Skin Contact:** No data available.

**Eye contact:** Causes eye irritation.

### 11.1 Information on toxicological effects

### **Acute toxicity**

Oral

**Product:** ATEmix: 5.894 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

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

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**Dermal** 

**Product:** ATEmix: 43.333 mg/kg

Specified substance(s)

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

Diglycol LD 50 (Rabbit): 11.890 mg/kg

Alkyl diglycole LD 50 (Rabbit): 650 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)

Diglycol

OECD 404 (Rabbit):

Not irritant.

Serious Eye Damage/Eye Irritation:

**Product:** Based on available data, the classification criteria are 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)

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 not 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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### **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 derivative LC 50 (Fathead minnow (Pimephales promelas), 96 h): 2.400 mg/l

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

Aquatic Invertebrates Specified substance(s)

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

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

Chronic ToxicityProduct: 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

### 12.2 Persistence and Degradability

**Biodegradation** 

**Product:** Not applicable for mixtures

Specified substance(s)

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 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.

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**Disposal methods:** Do not empty into drains; dispose of this material and its container in a safe

way. When storing used products, ensure that the waste categories and

mixing instructions are observed.

**European Waste Codes** 

13 01 11\*: synthetic hydraulic oils

#### **SECTION 14: Transport information**

SECTION 14. Transport information	
ADR/RID	
14.1 UN Number: 14.2 UN Proper Shipping Name: 14.3 Transport Hazard Class(es)	_ _
Class: Label(s):	Non-dangerous goods –
Hazard No. (ADR): Tunnel restriction code:	_ _
<ul><li>14.4 Packing Group:</li><li>14.5 Environmental hazards:</li><li>14.6 Special precautions for user:</li></ul>	
ADN	
14.1 UN Number: 14.2 UN Proper Shipping Name:	- -
14.3 Transport Hazard Class(es) Class: Label(s):	Non-dangerous goods
14.3 Packing Group:	-
<ul><li>14.5 Environmental hazards:</li><li>14.6 Special precautions for user:</li></ul>	_ _
IMDG	
14.1 UN Number: 14.2 UN Proper Shipping Name: 14.3 Transport Hazard Class(es)	_ _
Class: Label(s): EmS No.:	Non-dangerous goods  –  –
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):	<del>-</del> <del>-</del>
Class: Label(s):	Non-dangerous goods -
<ul><li>14.4 Packing Group:</li><li>14.5 Environmental hazards:</li><li>14.6 Special precautions for user:</li></ul>	  _

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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:

**EU Regulations** 

Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer: none

Regulation (EC) No. 850/2004 on persistent organic pollutants: none

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

The product does not fall into the scope of the SEVESO III Directive.

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

Suspected of damaging the unborn child. H361d

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. It was derived from the test data and/or the

application of the conventional method.

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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

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