

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: POLO BREMSFLUESSIGKEIT DOT 4

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 Schmierstoffe GmbH

> Friesenheimer Str. 19 68169 Mannheim

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1.4 Emergency telephone number: +49 621 3701-1333 / +49 621 3701-0 (Mo-Do 8-17, Fr 8-16)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has not been classified as hazardous, but needs to be labelled according to regulation (EU) 1272/2008 (CLP).

Hazard summary

Physical Hazards: No data available.

2.2 Label Elements

EUH210: Safety data sheet available on request.

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

Issue Date: 20.10.2015 Revision Date: 22.06.2016

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Version: 1.1 Print date: 27.06.2016



3.2 Mixtures

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

Chemical name	Identifier		REACH Registration No.	Notes
Glycol ether derivative	EINECS: 310-287-7	10,00 - <15,00%	01-2119475115-41	
Diglycol	EINECS: 203-872-2	5,00 - <10,00%	01-2119457857-21	
Amine, aliphatic	EINECS: 203-820-9	<2,00%	01-2119475444-34	

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

Classification

Chemical name	Identifier	Classification	
Glycol ether derivative	EINECS: 310-287-7	CLP: Eye Dam. 1;H318	
Diglycol	EINECS: 203-872-2	CLP: Acute Tox. 4;H302, STOT RE 2;H373	
Amine, aliphatic	EINECS: 203-820-9	CLP: Eye Irrit. 2;H319	

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.

Ingestion: Rinse mouth thoroughly.

4.2 Most important symptoms and effects, both acute and

delayed:

May cause skin and 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

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PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.



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.

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:

Prevent formation of aerosols. Do not eat, drink or smoke when working with the product. Take usual precautions when handling mineral oil products or chemical products. Observe good industrial hygiene practices. Provide adequate ventilation.

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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

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SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Occupational Exposure Limits

Chemical name	type	Exposure Limit Values	Source
Diglycol	TWA	23 ppm 101 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.

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

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.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state: liquid
Form: liquid
Color: Yellow

Odor: Characteristic

Odor Threshold: Not applicable for mixtures pH: 8,0 (DIN 51369, 1.000 g/l, 20 °C)

Freezing point: $< -70 \,^{\circ}\text{C}$ Boiling Point: $> 260 \,^{\circ}\text{C}$

Flash Point: > 125 °C

Evaporation Rate: Not applicable for mixtures

Flammability (solid, gas): Value not relevant for classification

Flammability Limit - Upper (%)—:

Flammability Limit - Lower (%)—:

Vapor pressure:

Vapor density (air=1):

Density:

Not applicable for mixtures

Not applicable for mixtures

Not applicable for mixtures

1,05 g/cm3 (15 °C) (DIN 51757)

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 classificationDecomposition Temperature:Value not relevant for classification

Kinematic viscosity: 8 mm2/s (40 °C, DIN 51562)

Explosive properties:Value not relevant for classification **Oxidizing properties:**Value not relevant for classification

9.2 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.

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.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Oral

Product: ATEmix: > 2.000 mg/kg

ATEmix: 10.101,01 mg/kg

Specified substance(s)

Diglycol LD 50 (Human): 1.000 mg/kg

LD 50 (Rat): > 2.001 mg/kg (OECD 401) Amine, aliphatic

Dermal

Product:

Not classified for acute toxicity based on available data.

Not classified for acute toxicity based on available data.

Specified substance(s)

Diglycol LD 50 (Rabbit): 13.300 mg/kg

Amine, aliphatic LD 50 (Rabbit): 8.000 mg/kg

Inhalation

Product:

Not classified for acute toxicity based on available data.

Not classified for acute toxicity based on available data.

Specified substance(s)

Diglycol

LC 50 (Rat, 4 h): > 4,6 mg/l

Skin Corrosion/Irritation:

Product:

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

available data, the classification criteria are not met.

Specified substance(s)

Amine, aliphatic

OECD 404 (Rabbit):

Not irritant.

Serious Eye Damage/Eye Irritation:

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

available data, the classification criteria are not met.

Specified substance(s)

Amine, aliphatic OECD 405 (Rabbit):

Irritating.

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Respiratory or Skin Sensitization:

Product: Skin sensitizer: Based on available data, the classification criteria are not

met

Skin sensitizer: Based on available data, the classification criteria are not

met.

Respiratory sensitizer: Based on available data, the classification criteria

are not met.

Respiratory sensitizer: Based on available data, the classification criteria

are not met.

Germ Cell Mutagenicity

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

available data, the classification criteria are not met.

Carcinogenicity

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

available data, the classification criteria are not met.

Reproductive toxicity

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

available data, the classification criteria are not met.

Aspiration Hazard

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

available data, the classification criteria are not met.

Other Adverse Effects: No data available.

SECTION 12: Ecological information

12.1 Toxicity

Acute toxicity

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

available data, the classification criteria are not met.

Fish

Product: LC 50 (Fish, 96 h): 250 - 350 mg/l

Aquatic Invertebrates Specified substance(s)

Glycol ether derivative EC 50 (Water Flea, 48 h): > 100 mg/l

Amine, aliphatic EC 50 (Water Flea, 48 h): 277,7 mg/l

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

available data, the classification criteria are not met.

Toxicity to Aquatic Plants Specified substance(s)

Amine, aliphatic EC 50 (Alga, 72 h): 339 mg/l

12.2 Persistence and Degradability

Biodegradation

Product: Not applicable for mixtures

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: 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

16 01 13*: brake fluids

SECTION 14: Transport information

ADR/RID

Issue Date: 20.10.2015

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:

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14.6 Special precautions for user: –

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:

EU Regulations

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

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

National Regulations

Water Hazard Class

WGK 1: slightly water-endangering.

(WGK):

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

assessment: Assessment has been carried out.

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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. H319 Causes serious eye irritation.

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

mentioned in regulation EU 1272/2008 (CLP).

information from technical literature and by information furnished by supplier

companies. The classification results from the Conventional Method

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Disclaimer: The data contained in this safety data sheet are based on our current

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Issue Date: 20.10.2015 Revision Date: 22.06.2016 Print date: 27.06.2016

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