

## Safety Data Sheet according to Regulation (EC)

No. 1907/2006 (REACH)

Revision 08.02.2021 (GB) Version 1.0

Bremsflüssigkeit DOT4+

548xxx



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

#### 1.1. Product identifier

Name of product

Bremsflüssigkeit DOT4+  
Art-Nr 548xxx

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

Identified uses

Product categories [PC]

PCO - Other

#### 1.3. Details of the supplier of the safety data sheet

Manufacturer/distributor

EUROLUB GmbH  
Freisingerstraße 25-27, D-85386 Eching b. München  
Phone +49 8165 9591-0, Fax +49 8165 9591-210  
E-Mail info@eurolub.com  
Internet www.eurolub.com

#### 1.4. Emergency telephone number

Emergency advice

Phone +49 8165 9591-0  
This number is only available at office times.

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]

Additional hints

This mixture is not classified as hazardous according to Regulation (EC) 1272/2008 [GHS].

#### 2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]

Special rules for supplemental label elements for certain mixtures

Enthält Dihydro-3-(tetrapropenyl)furan-2,5-dion, 2,2'-[[[(5-methyl-1Hbenzotriazol-1-yl)methyl]imino]bisethanol, 2,2'-[[[4-Methyl-1H-benzotriazol-1-yl]imino]bisethanol. Kann allergische Reaktionen hervorrufen.  
Safety data sheet available on request.

#### 2.3. Other hazards

Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

### SECTION 3: Composition/ information on ingredients

#### 3.1. Substances

not applicable

#### 3.2. Mixtures

Hazardous ingredients

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## Hazardous ingredients (continued)

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
111-46-6	203-872-2	2,2' -oxybisethanol	1 - 20	Acute Tox. 4, H302
111-77-3	203-906-6	2-(2-methoxyethoxy)ethanol	< 3	Repr. 2, H361d
161907-77-3	310-287-7	Butylpolyglycoether	10 - 20	Eye Dam. 1, H318
26544-38-7	247-781-6	Dihydro-3-(tetrapropenyl)furan-2,5-dion	< 0,1	Eye Irrit. 2, H319 / Skin Sens. 1A, H317 / Aquatic Chronic 4, H413

## REACH

CAS No	Name	REACH registration number
161907-77-3	Butylpolyglycoether	01-2119475115-41
26544-38-7	Dihydro-3-(tetrapropenyl)furan-2,5-dion	01-2119979080-37

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

Remove contaminated soaked clothing immediately and dispose it safely.

#### In case of inhalation

Remove the casualty into fresh air and keep him immobile.

If intensive inhalation of fumes seek medical treatment immediately.

#### In case of skin contact

In case of contact with skin wash off with soap and water.

#### In case of eye contact

In case of contact with eyes rinse with plenty of water carefully. In the event of persistent symptoms seek medical treatment.

#### In case of ingestion

Do not induce vomiting.

Rinse out mouth thoroughly with water.

### 4.2. Most important symptoms and effects, both acute and delayed

No information available.

### 4.3. Indication of any immediate medical attention and special treatment needed

No information available.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Alcohol-resistant foam

Dry fire-extinguishing substance

Carbon dioxide

water mist

#### Unsuitable extinguishing media

Full water jet

### 5.2. Special hazards arising from the substance or mixture

In the event of fire the following can be released:

Carbon monoxide (CO)

Carbon dioxide (CO<sub>2</sub>)

Under certain fire conditions traces of other toxic substances cannot be excluded.

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**5.3. Advice for firefighters**

**Special protective equipment for fire-fighters**

Use breathing apparatus with independent air supply.

Wear full protective clothing.

**Additional information**

Collect contaminated firefighting water separately, must not be discharged into the drains.

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**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

**For non-emergency personnel**

Ensure adequate ventilation.

Remove persons to safety.

Use personal protective clothing.

**For emergency responders**

Remove persons to safety.

Use personal protective clothing.

**6.2. Environmental precautions**

Do not seep away runed out product into ground or body of water.

Collect contaminated water / firefighting water separately.

Do not discharge into surface waters/groundwater.

**6.3. Methods and material for containment and cleaning up**

Take up with absorbent material (e.g. kieselguhr).

**Additional Information**

Informations for personal protective equipment see chapter 8.

**6.4. Reference to other sections**

No information available.

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**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

**Advice on safe handling**

Allow for sucking off.

**General protective measures**

Avoid contact with eyes and skin

Avoid explosion - before application obtain special instructions.

**Hygiene measures**

At work do not eat, drink and smoke.

Remove soiled or soaked clothing immediately.

Work in rooms with good ventilation.

After work wash thoroughly.

**Advice on protection against fire and explosion**

The product is combustible.

**7.2. Conditions for safe storage, including any incompatibilities**

**Further information on storage conditions**

Keep container tightly closed and store at cool and aired place.

**Storage group** 10

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### 7.3. Specific end use(s)

No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Indicative occupational exposure limit values (91/322/EEC, 2000/39/EC, 2004/37/EC, 2006/15/EC or 2009/161/EU)

CAS No	Name	Code	[mg/m <sup>3</sup> ]	[ppm]	Remark
111-77-3	2-(2-methoxyethoxy)ethanol	8 hours	50,1	10	skin

### 8.2. Exposure controls

#### Respiratory protection

If ventilation insufficient, wear respiratory protection.

#### Hand protection

Gloves (oil-resistant)

#### Eye protection

safety goggles with side protection

#### Other protection measures

Solvent-resistant protective clothing

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Appearance

liquid

#### Colour

colourless

#### Odour

mild aromatic

#### Odour threshold

not determined

### Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value	7 - 11,5				
starts to boil	> 230 °C				
stock point	-50 °C				
Flash point	> 100 °C				
Vapourisation rate	not determined				
Flammable (solid)	not determined				
Flammability (gas)	not determined				
Ignition temperature	not determined				
Self ignition temperature	> 300 °C				
Lower explosion limit	not determined				
Upper explosion limit	not determined				

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	Value	Temperature	at	Method	Remark
<b>Vapour pressure</b>	not determined				
<b>Relative density</b>	1,07 g/cm <sup>3</sup>	20 °C			
<b>Vapour density</b>	not determined				
<b>Solubility in water</b>	not determined				
<b>Solubility/other</b>	not determined				
<b>Partition coefficient n-octanol/water (log P O/W)</b>	not determined				
<b>Decomposition temperature</b>	> 300 °C				
<b>Viscosity kinematic</b>	5 - 10 cSt	20 °C			
<b>Oxidising properties</b>	No information available.				
<b>Explosive properties</b>	No information available.				
<b>9.2. Other information</b>	No information available.				

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No information available.

#### 10.2. Chemical stability

No information available.

#### 10.3. Possibility of hazardous reactions

No information available.

#### 10.4. Conditions to avoid

No data available

#### 10.5. Incompatible materials

##### Substances to avoid

Alkali (lye), concentrated

Acid, concentrated

Oxidising agent, strong

#### 10.6. Hazardous decomposition products

No information available.

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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity/Irritation/Sensitization

	Value/Validation	Species	Method	Remark
<b>LD50 acute oral</b>	2630 mg/kg	rat		
<b>LD50 acute dermal</b>	3540 mg/kg	rat		
<b>LC50 acute inhalation</b>	> 4600 mg/l (4 h)	rat		
<b>Skin irritation</b>	No information available.			
<b>Eye irritation</b>	No information available.			
<b>Skin sensitization</b>	No information available.			

#### Subacute Toxicity - Carcinogenicity

	Value	Species	Method	Validation
<b>Subacute Toxicity</b>				No information available.
<b>Mutagenicity</b>				No experimental information on genotoxicity in vitro available.
<b>Reproduction-Toxicity</b>				No indications of toxic effects were observed in reproduction studies in animals.
<b>Carcinogenicity</b>	No information available.			

#### Aspiration hazard

May be fatal if swallowed and enters airways.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Ecotoxicological effects

	Value	Species	Method	Validation
<b>Fish</b>	LC50 > 1800 mg/l		OECD 203	
<b>Daphnia</b>	EC50 3200 mg/l			
<b>Algae</b>	EC50 2700 mg/l			

### 12.2. Persistence and degradability

	Elimination rate	Method of analysis	Method	Validation
<b>Biological degradability</b>				readily degradable

### 12.3. Bioaccumulative potential

The product has not been tested. Because of the product's consistency and low solubility in water bioavailability is not likely.

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#### 12.4. Mobility in soil

No information available.

#### 12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

#### 12.6. Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Waste code No.

15 01 10\*

#### Name of waste

packaging containing residues of or contaminated by hazardous substances

Wastes marked with an asterisk are considered to be hazardous waste pursuant to Directive 2008/98/EC on hazardous waste.

#### Recommendations for the product

Remove in accordance with local official regulations.

## SECTION 14: Transport information

	ADR/RID	IMDG	IATA-DGR
14.1. UN number	-	-	-
14.2. UN proper shipping name	-	-	-
14.3. Transport hazard class(es)	-	-	-
14.4. Packing group	-	-	-
14.5. Environmental hazards	-	-	-

#### 14.6. Special precautions for user

No information available.

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No information available.

#### Transport/further information

No dangerous goods as defined by the transport regulations - ADR/RID, IMDG, ICAO/IATA-DGR.

## SECTION 15: Regulatory information

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

#### VOC standard

VOC content 0 %

VOC value 0 g/L

#### National regulations

Water hazard class 1 self-classification

Decree for case of interference/remarks Accident decree, addendum II: not named.

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#### 15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

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#### SECTION 16: Other information

##### Recommended uses and restrictions

National and local regulations concerning chemicals shall be observed.

##### Further information

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

- |       |  |
|-------|--|
| H302  | Harmful if swallowed.  |
| H317  | May cause an allergic skin reaction.   |
| H318  | Causes serious eye damage.   |
| H319  | Causes serious eye irritation.   |
| H361d | Suspected of damaging fertility or the unborn child (state specific effect if known) (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard). |
| H413  | May cause long lasting harmful effects to aquatic life.  |