

## Safety data sheet

Safety data sheet according to Regulation (EC) No. 1907/2006

Date / Revised: 2019/02/13 Version: 2.1

**TRADE NAME:** ETG – YOUR LIFETIME PARTNER

**Product:** BRAKE FLUID DOT 4

**Article No.:** 01.99.00.115906 (1 ltr.) | 01.99.00.107258 (0.5 ltr.)

**EAN:** 4051792159069 (1 ltr.) | 4051792072580 (0.5 ltr.)

**Ref.** DOT 4

**HS code:** 38190000

Date of print: 13.02.2019

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

#### 1.1 Product identifier

**ETG –BRAKE FLUID DOT 4**

**EAN:** 4051792159069 (1 ltr.) | 4051792072580 (0.5 ltr.)

**Ref. No:** DOT 4

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

Use of the substance/mixture: Hydraulic Fluid

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

Meyer-Glitza, Frese GmbH & Co. KG

Kirchweg 130 - 132

D-24558 Henstedt-Ulzburg

+49 (0) 40 / 2360902-0+49 (0) 40 / 23609-22

info@meyer-glitza.de

www.etg-de

#### 1.4 Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
Germany	Giftinformationszentrum Nord (Göttingen)		+49 (0) 551/19240	

### SECTION 2: Hazards identification

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

Classification (REGULATION (EC) No 1272/2008)

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

#### 2.2. Label elements

Labelling (REGULATION (EC) No 1272/2008)

**Not a hazardous substance or mixture**

Additional labelling:

EUH208 Contains Dihydro-3- (tetrapropenyl) furan-2,5-dione, 2,2'-  
[[[(5-methyl-1H-benzotriazol-1-yl)methyl]imino]bisethanol, 2,2'-  
[[[(4-Methyl-1H-benzotriazol-1-yl)methyl]imino]bisethanol..  
May produce an allergic reaction.

EUH210 Safety data sheet available on request.



#### contact:

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## SECTION 3: Composition/information on ingredients

### 3.1. Mixture

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
161907-77-3	Ethanol, 2-butoxy-, manufacture of, by-products from			10-<20 %
	310-287-7		01-2119475115-41	
	Eye Dam. 1; H318			
111-46-6	2,2' -oxybisethanol, diethylene glycol			1-20 %
	203-872-2	603-140-00-6		
	Acute Tox. 4; H302			
111-77-3	2-(2-methoxyethoxy)ethanol, diethylene glycol monomethyl ether			<3 %
	203-906-6	603-107-00-6		
	Repr. 2; H361d ***			
26544-38-7	Dihydro-3- (tetrapropenyl) furan-2,5-dione			<0,1 %
	247-781-6		01-2119979080-37	
	Eye Irrit. 2, Skin Sens. 1A, Aquatic Chronic 4; H319 H317 H413			

Full text of H and EUH statements: see section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

Self-protection of the first aider

Change contaminated clothing.

Do not put any product-impregnated cleaning rags into your trouser pockets.

#### After inhalation

In case of inhalation of aerosols/spray mist/splash spots: Consult physician. Provide fresh air.

Avoid breathing dust/fume/gas/mist/vapours/spray. IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

#### After contact with skin

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap.

If skin irritation or rash occurs: Get medical advice/attention.

#### After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. Consult an ophthalmologist.

#### After ingestion

Observe risk of aspiration if vomiting occurs. Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting.

### 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

Treat symptomatically



#### contact:



## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings. Foam. Carbon dioxide (CO<sub>2</sub>). Extinguishing powder Water mist BC-powder

#### Unsuitable extinguishing media

High power water jet.

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

Non-flammable. Vapours can form explosive mixtures with air

### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus

#### Additional information

Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water

## SECTION 6: Accidental release measures

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

Protective clothing No naked flames.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains

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

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

### 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see

section 8 Disposal: see section 13

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Keep away from sources of ignition - No smoking.

#### Advice on protection against fire and explosion

No special fire protection measures are necessary.

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

#### Requirements for storage rooms and vessels

Keep container tightly closed.

#### Advice on storage compatibility

No special measures are necessary.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Exposure limits (EH40)



#### contact:



CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
111-46-6	2,2'-Oxydiethanol	23	101		TWA (8 h) STEL (15 min)	WEL WEL
111-77-3	2-(2-Methoxyethoxy)ethanol	10	50.1		TWA (8 h) STEL (15 min)	WEL WEL

#### DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
161907-77-3	Ethanol, 2-butoxy-, manufacture of, by-products from			
Worker DNEL, long-term		inhalation	systemic	195 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	208 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	117 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	125 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	12,5 mg/kg
111-77-3	2-(2-methoxyethoxy)ethanol, diethylene glycol monomethyl ether			
Worker DNEL, long-term		dermal	systemic	0,53 mg/kg
Worker DNEL, long-term		inhalation	systemic	50,1 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	0,27 mg/kg
Consumer DNEL, long-term		inhalation	systemic	25 mg/m <sup>3</sup>
Consumer DNEL, long-term		oral	systemic	1,5 mg/kg bw/day

#### PNEC values

CAS No	Substance	Value
Environmental compartment		
161907-77-3	Ethanol, 2-butoxy-, manufacture of, by-products from	
Freshwater		1,8 mg/l
Marine water		0,18 mg/l
Marine water (intermittent releases)		18 mg/l
Freshwater sediment		6,6 mg/kg
Marine sediment		0,66 mg/kg
Soil		0,41 mg/kg



#### contact:



## 8.2. Exposure controls



### Protective and hygiene measures

Change contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.  
Avoid contact with skin and eyes.

### Eye/face protection

Wear eye/face protection.

### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

### Skin protection

Wear suitable protective clothing.

### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

## SECTION 9: Physical and chemical properties

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

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Kirchweg 130-132 DE-24558 Henstedt-Ulzburg  
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[info@meyer-glitzade.de](mailto:info@meyer-glitzade.de) [www.etg.de](http://www.etg.de)

tel.



Physical state:	Liquid
Colour:	colourless
Odour:	-
pH-Value:	7-<11,5
<b>Changes in the physical state</b>	
Melting point:	<-50 °C
Initial boiling point and boilingrange:	>230 °C
Auto-ignition temperature:	>300 °C
Flash point:	> 100 °C
<b>Flammability</b>	
Solid:	not applicable
Gas:	not applicable
Lower explosion limits:	not determined
Upper explosion limits:	not determined
<b>Auto-ignition temperature</b>	
Solid:	not applicable
Gas:	not applicable
Decomposition temperature:	not determined

**Oxidizing properties**

Not oxidising

Vapour pressure:	not determined
Density:	1,07 g/cm <sup>3</sup>
Water solubility:	easily soluble
<b>Solubility in other solvents</b>	
not determined	
Partition coefficient:	not determined
Viscosity / kinematic: (at 20 °C)	5-10 mm <sup>2</sup> /s
Vapour density:	not determined
Evaporation rate:	not determined

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**9.2. Other Information**

Solid content: not determined  
The product is hygroscopic

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

No hazardous reaction when handled and stored according to provisions

**10.2. Chemical stability**

The product is stable under storage at normal ambient temperatures

**10.3. Possibility of hazardous reactions**

No known hazardous reactions.

**10.4. Conditions to avoid**

Conditions to avoid: none

**10.5. Incompatible materials**

Materials to avoid: No information available

**10.6. Hazardous decomposition products**

Hazardous decomposition products: No hazardous decomposition products known.

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

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

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established 1877



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CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
161907-77-3	Ethanol, 2-butoxy-, manufacture of, by-products from					
	oral	LD50 mg/kg	2630	Rat		
	dermal	LD50 mg/kg	3540	Rabbit		
111-46-6	2,2' -oxybisethanol, diethylene glycol					
	oral	ATE mg/kg	500			
	dermal	LD50 mg/kg	11890	Rabbit		
111-77-3	2-(2-methoxyethoxy)ethanol, diethylene glycol monomethyl ether					
	oral	LD50 mg/kg	ca. 6500	Rat		
	dermal	LD50 mg/kg	ca. 6450	Rabbit		
	inhalative (1 h) vapour	LC50 mg/l	> 200	Rat		

#### Irritation and corrosivity

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

#### Sensitising effects

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

#### Carcinogenic/mutagenic/toxic effects for reproduction

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

#### STOT-single exposure

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

#### STOT-repeated exposure

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

#### Aspiration hazard

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

#### Additional information on tests

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

## SECTION 12: Ecological information

### 12.1. Toxicity

The product is not: Ecotoxic.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
161907-77-3	Ethanol, 2-butoxy-, manufacture of, by-products from					
	Acute fish toxicity	LC50 mg/l	>1800	96 h Scophthalmus maximus		OECD 203



#### contact:





	Acute algae toxicity	ErC50 mg/l	2490	72 h	Scenedesmus subspicatus		OECD 201
	Acute crustacea toxicity	EC50 mg/l	>3200	48 h	Daphnia magna (Big water flea)		OECD 202
111-46-6	2,2' -oxybisethanol, diethylene glycol						
	Acute fish toxicity	LC50 mg/l	> 32000	96 h	Gambusia affinis		
111-77-3	2-(2-methoxyethoxy)ethanol, diethylene glycol monomethyl ether						
	Acute fish toxicity	LC50 mg/l	7500	96 h	Lepomis macrochirus		
	Acute algae toxicity	ErC50 mg/l	> 500	72 h	Desmodesmus subspicatus		
	Acute crustacea toxicity	EC50 mg/l	> 500	48 h	Daphnia magna		

### 12.2. Persistence and degradability

The product has not been tested.

### 12.3. Bioaccumulative potential

The product has not been tested.

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
111-46-6	2,2' -oxybisethanol, diethylene glycol	-1,98 (25°C)
111-77-3	2-(2-methoxyethoxy)ethanol, diethylene glycol monomethyl ether	-0,68

### 12.4 Mobility in soil

The product has not been tested.

### 12.5 Results of PBT and vPvB assessment

The product has not been tested.

### 12.6 Other adverse effects

No information available.

[Further information](#)

Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Advice on disposal

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.  
Dispose of waste according to applicable legislation

#### Waste disposal number of contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

#### Contaminated packaging



#### contact:



Wash with plenty of water. Completely emptied packages can be recycled.

## SECTION 14: Transport information

### Land transport (ADR/RID)

Other applicable information (land transport)  
No dangerous good in sense of this transport regulation.

### Inland waterways transport (ADN)

Other applicable information (inland waterways transport)  
No dangerous good in sense of this transport regulation.

### Marine transport (IMDG)

Other applicable information (marine transport)  
No dangerous good in sense of this transport regulation.

### Air transport (ICAO-TI/IATA-DGR)

Other applicable information (air transport)  
No dangerous good in sense of this transport regulation.

### Land transport (ADR/RID)

- |                                   |  |
|-----------------------------------|--|
| 14.1. UN number:                  | No dangerous good in sense of this transport regulation. |
| 14.2. UN proper shipping name:    | No dangerous good in sense of this transport regulation. |
| 14.3. Transport hazard class(es): | No dangerous good in sense of this transport regulation. |
| 14.4. Packing group:              | No dangerous good in sense of this transport regulation. |

### Inland waterways transport (ADN)

- |                                   |  |
|-----------------------------------|--|
| 14.1. UN number:                  | No dangerous good in sense of this transport regulation. |
| 14.2. UN proper shipping name:    | No dangerous good in sense of this transport regulation. |
| 14.3. Transport hazard class(es): | No dangerous good in sense of this transport regulation. |
| 14.4. Packing group:              | No dangerous good in sense of this transport regulation. |

### Marine transport (IMDG)

- |                                   |  |
|-----------------------------------|--|
| 14.1. UN number:                  | No dangerous good in sense of this transport regulation. |
| 14.2. UN proper shipping name:    | No dangerous good in sense of this transport regulation. |
| 14.3. Transport hazard class(es): | No dangerous good in sense of this transport regulation. |
| 14.4. Packing group:              | No dangerous good in sense of this transport regulation. |

### Air transport (ICAO-TI/IATA-DGR)

- |                                   |  |
|-----------------------------------|--|
| 14.1. UN number:                  | No dangerous good in sense of this transport regulation. |
| 14.2. UN proper shipping name:    | No dangerous good in sense of this transport regulation. |
| 14.3. Transport hazard class(es): | No dangerous good in sense of this transport regulation. |
| 14.4. Packing group:              | No dangerous good in sense of this transport regulation. |

### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no



#### contact:



#### 14.6. Special precautions for user

No dangerous good in sense of this transport regulation

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No dangerous good in sense of this transport regulation.

### SECTION 15: Regulatory information

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

##### EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 54: 2-(2-methoxyethoxy)ethanol, diethylene glycol monomethyl ether

2010/75/EU (VOC):	2,99 % (31,993 g/l)
2004/42/EC (VOC):	22,98 % (245,886 g/l)

##### National regulatory information

Water contaminating class:	WGK 1 slightly water endangering
Skin resorption/Sensitization: (Germany)	Causes allergic hypersensitivity reactions

#### 15.2. Chemical safety assessment

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

### SECTION 16: Other information

#### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route  
(European Agreement concerning the International Carriage of Dangerous Goods by Road )  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service  
LC50: Lethal concentration, 50%  
LD50: Lethal dose, 50%

#### Relevant H and EUH statements (number and full text)

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 the unborn child.  
H413 May cause long lasting harmful effects to aquatic life .  
EUH208 Contains Dihydro-3- (tetrapropenyl) furan-2,5-dione, 2,2'-  
[[[(5-methyl-1H-benzotriazol-1-yl)methyl]imino]bisethanol, 2,2'-  
[[[(4-Methyl-1H-benzotriazol-1-yl)methyl]imino]bisethanol..  
May produce an allergic reaction.  
EUH210 Safety data sheet available on request.



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## Further Information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*



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