

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

- **1.1 Product identifier**
- **Trade name: RACING BRAKE FLUID**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture**  
Brake fluid  
Only for proper handling.
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
BUCHER AG LANGENTHAL  
MOTOREX-Schmiertechnik  
Bern-Zürich-Strasse 31  
CH-4901 Langenthal  
Telefon +41 (0)62 919 75 75
- **Only representative in EU:**  
MOTOREX Deutschland AG, Bismarckstrasse 28, D-69198 Schriesheim
- **Further information obtainable from: msds@motorex.com**
- **1.4 Emergency telephone number:**  
Toxicological Information Centre, CH-8028 Zurich,  
info@toxi.ch,  
T. +41 (0) 44 251 51 51

**SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
The product is not classified according to the CLP regulation.
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC** Not applicable.
- **Information concerning particular hazards for human and environment:**  
The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- **Classification system:**  
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **Additional information:**  
Safety data sheet available on request.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

**SECTION 3: Composition/information on ingredients**

- **3.2 Chemical characterisation: Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

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**· Dangerous components:**

CAS: 143-22-6 EINECS: 205-592-6 Reg.nr.: 01-2119531322-53	2-[2-(2-butoxyethoxy)ethoxy]ethanol ☒ Xi R41 ☒ Eye Dam. 1, H318	10-25%
CAS: 111-46-6 EINECS: 203-872-2 Reg.nr.: 01-2119457857-21	2,2'-oxybisethanol ☒ Xn R22 ☒ STOT RE 2, H373; ☒ Acute Tox. 4, H302	5-10%
CAS: 111-77-3 EINECS: 203-906-6	2-(2-methoxyethoxy)ethanol ☒ Xn R63 Repr. Cat. 3 ☒ Repr. 2, H361d	1-2.5%
CAS: 112-34-5 EINECS: 203-961-6 Reg.nr.: 01-2119475104-44	2-(2-butoxyethoxy)ethanol ☒ Xi R36 ☒ Eye Irrit. 2, H319	1-2.5%

**· Additional information:** For the wording of the listed risk phrases refer to section 16.**SECTION 4: First aid measures****· 4.1 Description of first aid measures**

- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**  
Remove residues with soap and water.  
Remove contaminated clothing immediately.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:**  
Do not induce vomiting. Do not take in resorption stimulating agents.  
Consult a physician who will decide on need and method of emptying the stomach.

**· 4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

**· 4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

**SECTION 5: Firefighting measures****· 5.1 Extinguishing media**· **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.**· 5.2 Special hazards arising from the substance or mixture**

No further relevant information available.

**· 5.3 Advice for firefighters**· **Protective equipment:** Wear self-contained respiratory protective device.**SECTION 6: Accidental release measures**· **6.1 Personal precautions, protective equipment and emergency procedures** Not required.**· 6.2 Environmental precautions:**

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

**· 6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

**· 6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** No special measures required.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Store in cool, dry well ventilated area away from sources of ignition and heat.  
This product is hygroscopic.
- **Storage class:** 10
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

#### 8.1 Control parameters

- **Ingredients with limit values that require monitoring at the workplace:**

##### 111-46-6 2,2'-oxybisethanol

WEL Long-term value: 101 mg/m<sup>3</sup>, 23 ppm

##### 111-77-3 2-(2-methoxyethoxy)ethanol

WEL Long-term value: 50.1 mg/m<sup>3</sup>, 10 ppm  
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##### 112-34-5 2-(2-butoxyethoxy)ethanol

WEL Short-term value: 101.2 mg/m<sup>3</sup>, 15 ppm  
Long-term value: 67.5 mg/m<sup>3</sup>, 10 ppm

- **Additional information:** The lists valid during the making were used as basis.

#### 8.2 Exposure controls

- **Personal protective equipment:**

- **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

- **Respiratory protection:** Not required.

- **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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· Eye protection: Goggles recommended during refilling

### SECTION 9: Physical and chemical properties

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

##### · General Information

##### · Appearance:

· Form:	Fluid
· Colour:	Amber coloured
· Odour:	Characteristic
· Odour threshold:	Not determined.

· pH-value at 20 °C:	7.5 (DIN 51369)
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##### · Change in condition

· Melting point/Melting range:	Undetermined.
· Boiling point/Boiling range:	> 300 °C (DIN EN ISO 3405)
· Setting temperature / range:	<-50 °C

· Flash point:	> 140 °C
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· Flammability (solid, gaseous):	Not applicable.
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· Ignition temperature:	203 °C (DIN 51794) 203 °C (DIN 51794)
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· Decomposition temperature:	Not determined.
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· Self-igniting:	Product is not selfigniting.
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· Danger of explosion:	Product does not present an explosion hazard.
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##### · Explosion limits:

· Lower:	Not determined.
· Upper:	Not determined.

· Vapour pressure:	Not determined.
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· Density at 20 °C:	1.08 g/cm <sup>3</sup> (ASTM D 4052)
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· Relative density	Not determined.
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· Vapour density	Not determined.
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· Evaporation rate	Not determined.
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##### · Solubility in / Miscibility with water:

Fully miscible.

· Partition coefficient (n-octanol/water):	Not determined.
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##### · Viscosity:

· Dynamic:	Not determined.
· Kinematic at 20 °C:	22 mm <sup>2</sup> /s (DIN 51562-1)
· VOC (EC)	8%

· 9.2 Other information	No further relevant information available.
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### SECTION 10: Stability and reactivity

#### · 10.1 Reactivity

#### · 10.2 Chemical stability

#### · Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

· 10.3 Possibility of hazardous reactions	No dangerous reactions known.
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· 10.4 Conditions to avoid	No further relevant information available.
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· 10.5 Incompatible materials:	No further relevant information available.
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- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.
- **Additional information:** The product is stable but hygroscopic.

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitisation:** No sensitising effects known.
- **Additional toxicological information:**  
 The sweet taste can seduce children to drink large quantities; hence keep out of reach of children.  
 The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.  
 When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** Biodegradability (OECD 302 B): >70 %
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
 Water hazard class 1 (German Regulation) (Self-classification according VwVwS, 17.05.1999):  
 slightly hazardous for water  
 Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation** Smaller quantities can be disposed of with household waste.

- **European waste catalogue**

16 01 13*	brake fluids
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- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### SECTION 14: Transport information

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|---------------------------------------|------|
| · <b>14.1 UN-Number</b>               |      |
| · <b>ADR, ADN, IMDG, IATA</b>         | Void |
| · <b>14.2 UN proper shipping name</b> |      |
| · <b>ADR, ADN, IMDG, IATA</b>         | Void |

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· <b>14.3 Transport hazard class(es)</b>	
· <b>ADR, ADN, IMDG, IATA</b>	
· <b>Class</b>	Void
· <b>14.4 Packing group</b>	
· <b>ADR, IMDG, IATA</b>	Void
· <b>14.5 Environmental hazards:</b>	
· <b>Marine pollutant:</b>	No
· <b>14.6 Special precautions for user</b>	Not applicable.
· <b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>UN "Model Regulation":</b>	-

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
No further relevant information available.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

- **Relevant phrases**

H302 Harmful if swallowed.  
 H318 Causes serious eye damage.  
 H319 Causes serious eye irritation.  
 H361d Suspected of damaging the unborn child.  
 H373 May cause damage to organs through prolonged or repeated exposure.  
 R22 Harmful if swallowed.  
 R36 Irritating to eyes.  
 R41 Risk of serious damage to eyes.  
 R63 Possible risk of harm to the unborn child.

- **Department issuing MSDS:** Abteilung Produktsicherheit

- **Abbreviations and acronyms:**

Acute Tox. 4: Acute toxicity, Hazard Category 4  
 Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1  
 Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2  
 Repr. 2: Reproductive toxicity, Hazard Category 2  
 STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

- **\* Data compared to the previous version altered.**

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