

# SAFETY DATA SHEET

*according to EC directive 91/155/EEC*

Print Date: 15.12.2005

Revision Date : 15.12.2005

Version : 1.0

Trade name: **Original ATE Brake Fluid SL; 6m (DOT4)**

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product information

Trade name : Original ATE Brake Fluid SL; 6m (DOT4)  
 Company : **Continental Teves AG & Co. oHG**  
**Guerickestr. 7**  
**60488 Frankfurt a. M.**  
**Germany**  
 Telephone : + 49 69 76 03 1  
 Telefax : + 49 69 76 10 61  
 Contact person : Central Environment & Safety , Central Laboratory  
 Emergency telephone number : + 49 61 32 84 46 3

### Use

Specific use(s) : Hydraulic fluid

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

### Chemical nature

formulated product, Additives, Solvent mixture

### Hazardous components

| Chemical Name  | CAS-No.   | EC-No.    | Classification | Concentration [%] |
|--|-----------|-----------|----------------|-------------------|
| 2,2'-oxybisethanol diethylene glycol                         | 111-46-6  | 203-872-2 | Xn; R22        | 12,5 - < 15       |
| Poly(oxy-1,2-ethanediyl),.alpha.-butyl-.omega.-hydroxy       | 9004-77-7 |           | Xi; R36        | 12,5 - < 15       |
| 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether | 112-34-5  | 203-961-6 | Xi; R36        | 3 - < 5           |
| 1,1'-iminodipropan-2-ol; diisopropanolamine                  | 110-97-4  | 203-820-9 | Xi; R36        | 1 - < 3           |

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## 3. HAZARDS IDENTIFICATION

### Risk advice to man and the environment

Not a hazardous substance or preparation according to EC-directives 67/548/EEC or 1999/45/EC.

## 4. FIRST AID MEASURES

- General advice : Never give anything by mouth to an unconscious person.  
In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
Remove from exposure, lie down.
- Inhalation : Move to fresh air in case of accidental inhalation of vapours or decomposition products.  
Keep patient warm and at rest.  
If symptoms persist, call a physician.
- Skin contact : Wash off with soap and water.
- Eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Ingestion : If swallowed, seek medical advice immediately and show this container or label.  
If a person vomits when lying on his back, place him in the recovery position.

## 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Extinguishing media which must not be used for safety reasons : high volume water jet
- Specific hazards during fire fighting : Fire will produce dense black smoke containing hazardous combustion products (see heading 10).
- Special protective equipment for fire-fighters : Use personal protective equipment.  
Wear self-contained breathing apparatus and protective suit.  
complete suit protecting against chemicals

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Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
Standard procedure for chemical fires.

## **6. ACCIDENTAL RELEASE MEASURES**

Personal precautions : Refer to protective measures listed in sections 7 and 8.  
Ventilate the area.  
Avoid contact with skin, eyes and clothing.  
Avoid inhalation of vapour or mist.

Environmental precautions : Do not flush into surface water or sanitary sewer system.

Methods for cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).

## **7. HANDLING AND STORAGE**

### **Handling**

Advice on safe handling : For personal protection see section 8.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Dust explosion class : not applicable

### **Storage**

Requirements for storage areas and containers : Store in original container.  
Keep containers tightly closed in a dry, cool and well-ventilated place.

Advice on common storage : Never allow product to get in contact with water during storage.  
Keep away from food, drink and animal feeding stuffs.  
Keep away from oxidising agents, strongly acid or alkaline materials and amines.

Storage temperature : 5 - 30 °C

Remarks : No decomposition if stored and applied as directed.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Components with workplace control parameters

| Components                           | CAS-No.  | Control parameters              | Note | Update | Basis    |
|--------------------------------------|----------|---------------------------------|------|--------|----------|
| 2,2'-oxybisethanol diethylene glycol | 111-46-6 | 101 mg/m <sup>3</sup><br>23 ppm |      | 2003   | EH40 OES |

### Engineering measures

General advice : Provide adequate ventilation.

### Personal protective equipment

Respiratory protection : In case of insufficient ventilation wear suitable respiratory equipment.  
respirator with A filter  
Respirator with a vapour filter (EN 141)

### Hand protection

Glove thickness : 0,7 mm  
Break through time : 480 min  
Directive : DIN EN 374  
Material : butyl-rubber  
Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work.  
For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer.

Eye protection : In case of splash hazard, wear protective goggles.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.  
Please thoroughly clean and care for the skin after finishing work.  
Wash contaminated clothing before re-use.  
When using, do not eat, drink or smoke.

Protective measures : Avoid contact with skin, eyes and clothing.  
Do not breathe vapours or spray mist.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form : liquid

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Colour : yellow

Odour : characteristic

## Safety data

pH : 7,5 - 9  
at (20 °C)

Boiling point/range : > 260 °C  
at 1.013 mbar

Flash point : > 125 °C  
Method: ISO 2719

Flammability (solid, gas) : not auto-flammable

Ignition temperature : > 200 °C  
Method: DIN 51794

Oxidizing properties : The product has been shown not to be oxidising in a test following Directive 67/548/EEC (Method A17, oxidising properties).

Lower explosion limit : 1,5 %(V)

Upper explosion limit : not determined

Vapour pressure : < 1 mbar  
at 20 °C

Density : 1,055 - 1,075 g/cm<sup>3</sup>  
at 20 °C  
Method: DIN 51757

Bulk density : not applicable

Water solubility : at 20 °C  
completely miscible

Burning number : no data available

Relative vapour density : not determined

## 10. STABILITY AND REACTIVITY

Conditions to avoid : no data available

Materials to avoid : strong acids and oxidizing agents

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Hazardous decomposition products : Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), dense black smoke.

Thermal decomposition : 360 °C

Hazardous reactions :

Stability:  
No decomposition if used as directed.

## **11. TOXICOLOGICAL INFORMATION**

Acute oral toxicity : no data available

Acute inhalation toxicity : no data available

Acute dermal toxicity : no data available

Skin irritation : no data available

Eye irritation : no data available

Sensitization : no data available

## **12. ECOLOGICAL INFORMATION**

### **Ecotoxicity effects**

Toxicity to fish : LC50Species: Leuciscus idus (Golden orfe)  
Dose: 250 - 350 mg/l  
Exposure time: 96 h

### **Further information on ecology**

Adsorbed organic bound halogens (AOX) : not included

Other ecotoxicological advice : Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

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## 13. DISPOSAL CONSIDERATIONS

- Advice on disposal and packaging : Disposal:  
Where possible recycling is preferred to disposal or incineration.  
According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.
- EU Waste code: EWC : Waste Key (unused product) :  
160113, brake fluids
- Waste key (used product) :  
160113, brake fluids
- Disposal of uncleaned packaging : Waste key (uncleaned packaging) :  
150110, packaging containing residues of or contaminated by dangerous substances
- Remarks:  
Empty containers should be taken for local recycling or waste disposal.

## 14. TRANSPORT INFORMATION

Not dangerous goods in the meaning of ADR/RID, ADNR, IMDG-Code, ICAO/IATA-DGR

## 15. REGULATORY INFORMATION

### Labelling according to EC Directives

- Additional advice : Not a hazardous substance or preparation according to EC-directives 67/548/EEC or 1999/45/EC.
- Special labelling of certain preparations : Safety data sheet available for professional user on request.

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VOC: : Directive 1999/13/EC  
20,3 %  
Volatile CMR compounds [%]: 0 %  
Volatile halogenated compounds / R40 [%]: 0 %  
VOC content less water: 218,23 g/l

## National legislation

## 16. OTHER INFORMATION

### R-phrases corresponding to the number shown in section 2 :

R22 Harmful if swallowed.  
R36 Irritating to eyes.

### 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.