

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Print Date: 28.01.2011

Revision Date :  
25.01.2011

Version : 3.3

GB / EN

Commercial Product Name: **Original ATE Brake Fluid TYP 200 (DOT4)**

## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Commercial Product Name : Original ATE Brake Fluid TYP 200 (DOT4)

### 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

Company : **Continental Aftermarket GmbH**  
**Guerickestrasse 7**  
**60488 Frankfurt**  
**Germany**  
**+49-69-7603-1**  
**+49-69-76 10 61**

Contact person : Central Environment & Safety , Central Laboratory  
E-mail address : ate.sicherheit@contiautomotive.com

### 1.4 Emergency telephone number

+ 49 61 32 84 46 3

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## 2. Hazards identification

### 2.1 Classification of the substance or mixture

Classification (67/548/EEC, 1999/45/EC)

### 2.2 Label elements

Labelling according to EC Directives: 1999/45/EC

Further information : Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

Special labelling of certain mix- : Safety data sheet available on request for professional users.  
tures

### 2.3 Other hazards

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

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## 3. Composition/information on ingredients

### 3.1 Mixtures

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Chemical nature : Formulated product  
 Additives  
 Solvent mixture

### Hazardous components

Chemical Name	CAS-No.	Classification (67/548/EEC)	Classification (1272/2008/EC)	Concentration [%]
	EC-No.			
	Registration number			
2,2'-(Octylimino)bisethanol	15520-05-5	Xn; R22 Xi; R38 Xi; R41	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318	>= 3 - < 5
	239-555-0			
2,2'-oxybisethanol	111-46-6	Xn; R22	Acute Tox. 4; H302	>= 3 - < 5
	203-872-2			

For the full text of the R-phrases mentioned in this Section, see Section 16.  
 For the full text of the H-Statements mentioned in this Section, see Section 16.

## 4. First aid measures

### 4.1 Description of 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.
- If inhaled : 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.
- In case of skin contact : Wash off with soap and water.
- In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- If swallowed : 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.

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

no data available

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

no data available

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## 5. Fire-fighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media : High volume water jet

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

### 5.3 Advice for firefighters

Special protective equipment for fire-fighters : Use personal protective equipment. Wear self-contained breathing apparatus and protective suit. Complete suit protecting against chemicals

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.

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## 6. Accidental release measures

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

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.

### 6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system.

### 6.3 Methods and materials for containment and cleaning up

Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations.

### 6.4 Reference to other sections

see chapter: 7, 8, 11, 12 and 13

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## 7. Handling and storage

### 7.1 Precautions for safe handling

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

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

Dust explosion class : not applicable

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

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 feedingstuffs. Keep away from oxidising agents, strongly acid or alkaline materials and amines.

Other data : No decomposition if stored and applied as directed.

### 7.3 Specific end uses

no data available

## 8. Exposure controls/personal protection

### 8.1 Control parameters

Components	CAS-No.	Control parameters	Basis	Update
2,2'-oxybisethanol	111-46-6	TWA: 101 mg/m <sup>3</sup> , 23 ppm 2,	GB EH40	2005-04-06

Other information on limit values: see chapter 16

### 8.2 Exposure controls

#### Engineering measures

Provide adequate ventilation.

#### Personal protective equipment

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

#### Hand protection

Material : butyl-rubber  
 Glove thickness : 0,7 mm

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Break through time : 480 min  
Directive : DIN EN 374

Remarks : 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, please 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.

## **Environmental exposure controls**

General advice : Do not flush into surface water or sanitary sewer system.

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## **9. Physical and chemical properties**

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

Appearance : liquid  
Colour : no data available  
Odour : characteristic  
Odour Threshold : no data available  
Flash point : > 130 °C  
Method: ISO 2592

Ignition temperature : > 200 °C  
Method: DIN 51794

Lower explosion limit : not determined  
Upper explosion limit : not determined  
Explosive properties : no data available  
Flammability (solid, gas) : no data available  
Oxidizing properties : no data available  
Autoignition temperature : not auto-flammable  
Burning number : no data available  
Molecular Weight : no data available  
pH : 7 - 8 at 20 °C

Boiling point/boiling range : > 280 °C at 1.013 hPa

Vapour pressure : < 0,1 mbar at 20 °C

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Density : 1,07 - 1,09 g/cm<sup>3</sup> at 20 °C

Method: DIN 51757

Bulk density : not applicable

Water solubility : 350 g/l at 20 °C

Partition coefficient: n-  
octanol/water : no data available

Solubility in other solvents : no data available

Viscosity, dynamic : no data available

Viscosity, kinematic : 17 - 18 mm<sup>2</sup>/s at 20 °C

Flow time : no data available

Impact Sensitivity : no data available

Relative vapour density : no data available

Surface tension : no data available

Evaporation rate : no data available

Minimum ignition energy : no data available

Acid number : no data available

Refraction index : no data available

Miscibility in water : no data available

Solvent separation test : no data available

## 9.2 Other information

None known.

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## 10. Stability and reactivity

### 10.1 Reactivity

no data available

### 10.2 Chemical stability

The product is chemically stable.

### 10.3 Possibility of hazardous reactions

Stability: No decomposition if used as directed.

### 10.4 Conditions to avoid

no data available

### 10.5 Incompatible materials

Materials to avoid : Strong acids and oxidizing agents

### 10.6 Hazardous decomposition products

Hazardous decomposition products : nitrogen oxides (NO<sub>x</sub>), Carbon dioxide (CO<sub>2</sub>), Carbon monoxide

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Thermal decomposition : > 360 °C

## 11. Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Acute oral toxicity : no data available

Acute inhalation toxicity : no data available

Acute dermal toxicity : no data available

Acute toxicity (other routes of administration):

no data available

#### Skin corrosion/irritation

Skin irritation : no data available

#### Serious eye damage/eye irritation

Eye irritation : no data available

#### Respiratory or skin sensitization

Sensitisation : no data available

#### Germ cell mutagenicity

Genotoxicity in vitro:

no data available

#### Carcinogenicity

no data available

#### Reproductive toxicity

no data available

#### Teratogenicity

no data available

#### STOT - single exposure

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no data available

## **STOT - repeated exposure**

no data available

## **Aspiration hazard**

### Aspiration toxicity

no data available

## **Neurological effects**

no data available

## **Toxicology Assessment**

### Toxicology, Metabolism, Distribution

no data available

### Acute effects

no data available

## **Further information**

2,2'-oxybisethanol

: Inhalation of high vapour concentrations can cause CNS-depression and narcosis.  
Liver and kidney injuries may occur.  
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

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## **12. Ecological information**

### **12.1 Toxicity**

#### Toxicity to fish

: LC50 (Leuciscus idus (Golden orfe)): 250 - 350 mg/l  
Exposure time: 96 h  
Method: DIN 38412

#### Toxicity to daphnia and other aquatic invertebrates.

2,2'-oxybisethanol

: EC50 (Daphnia magna (Water flea)): > 10.000 mg/l  
Exposure time: 24 h

#### Toxicity to bacteria

: EC50 (Bacteria): > 5.000 mg/l

### **12.2 Persistence and degradability**

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Biodegradability : Result: Readily biodegradable.  
Biodegradation: 97 %

## 12.3 Bioaccumulative potential

Bioaccumulation : Remarks:  
no data available

## 12.4 Mobility in soil

Physico-chemical removability : > 70 %  
Remarks:  
readily eliminated

## 12.5 Results of PBT and vPvB assessment

no data available

## 12.6 Other adverse effects

Adsorbed organic bound halogens (AOX) : Remarks:  
not included

Additional ecological information : 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

### 13.1 Waste treatment methods

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.  
Waste codes should be assigned by the user based on the application for which the product was used.

The following Waste Codes are only suggestions:

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

Note: Empty containers should be taken to an approved waste handling site for recycling or disposal.



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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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