

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 TYP 200; 10m (DOT4)**

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

Product information

Trade name : Original ATE Brake Fluid TYP 200; 10m (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'-(Octylimino)bisethanol	15520-05-5		Xn; R22 Xi; R38 Xi; R41	3 - < 5
2,2'-oxybisethanol diethylene glycol	111-46-6	203-872-2	Xn; R22	3 - < 5

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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 ³ 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 - 8
at (20 °C)

Boiling point/range : > 280 °C
at 1.013 mbar

Flash point : > 130 °C
Method: ISO 2592

Ignition temperature : > 200 °C
Method: DIN 51794

Autoignition temperature : not auto-flammable

Lower explosion limit : not determined

Upper explosion limit : not determined

Vapour pressure : < 0,1 mbar
at 20 °C

Density : 1,07 - 1,09 g/cm³
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

Viscosity, kinematic : 17 - 18 mm²/s
at 20 °C

10. STABILITY AND REACTIVITY

Conditions to avoid : no data available

Materials to avoid : strong acids and oxidizing agents

Hazardous decomposition products : Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), dense black smoke.

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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

Toxicity to bacteria : EC50
Species: Bacteria
Dose: > 5.000 mg/l

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
5 %
Volatile CMR compounds [%]: 0 %
Volatile halogenated compounds / R40 [%]: 0 %
VOC content less water: 54,5 g/l

National legislation

16. OTHER INFORMATION

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

R22 Harmful if swallowed.
R38 Irritating to skin.
R41 Risk of serious damage 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.