

SAFETY DATA SHEET

according to EC directive 91/155/EEC

Print Date: 02.03.2007

Revision Date : 02.03.2007

Version : 2.0

Commercial Product Name: **Original ATE Brake Fluid DOT 3 G (yellow)**

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

Product information

Commercial Product Name : Original ATE Brake Fluid DOT 3 G (yellow)
 Company : **Continental Teves AG Co. oHG**
Guerickestrasse 7
60488 Frankfurt
Germany
+49-69-7603-1
+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 [%]
Poly(oxy-1,2-ethanediyl), alpha-butyl-omega-hydroxy	9004-77-7		Xi; R36	40 - < 45
2,2'-oxybisethanol diethylene glycol	111-46-6	203-872-2	Xn; R22	20 - < 25
2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether	111-77-3	203-906-6	R63; Repr.Cat.3	3 - < 5
1,2-bis(2-methoxyethoxy)ethane; TEGDME; triethylene glycol dimethyl ether; triglyme	112-49-2	203-977-3	R19 R61; Repr.Cat.2 R62; Repr.Cat.3	0,2 - < 0,5
bis(2-methoxyethyl) ether	111-96-6	203-924-4	R10 R19 R60 - R61; Repr.Cat.2	0,1 - < 0,2

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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
- 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

- 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 : 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.

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 feedingstuffs.
 Keep away from oxidising agents, strongly acid or alkaline materials and amines.
- Remarks : No decomposition if stored and applied as directed.

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		2005	EH40 WEL

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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 : 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.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form : liquid

Colour : light yellow

Odour : characteristic

Safety data

pH : 7,5 - 10
at (20 °C)

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<u>Boiling point/range</u>	: > 245 °C
<u>Flash point</u>	: > 118 °C Method: ISO 2592
<u>Ignition temperature</u>	: 230 °C Method: DIN 51794
<u>Autoignition temperature</u>	: not auto-flammable
<u>Oxidizing properties</u>	: The product has been shown not to be oxidising in a test following Directive 67/548/EEC (Method A17, oxidising properties).
<u>Lower explosion limit</u>	: 1,5 %(V)
<u>Upper explosion limit</u>	: not determined
<u>Vapour pressure</u>	: < 10 mbar at 20 °C
<u>Density</u>	: 1,04 - 1,07 g/cm ³ Method: DIN 51757
<u>Bulk density</u>	: not applicable
<u>Water solubility</u>	: at 20 °C in all proportions
<u>Partition coefficient (n-octanol/water)</u>	: not applicable
<u>Viscosity, kinematic</u>	: 14,5 - 17 mm ² /s at 20 °C
<u>Burning number</u>	: no data available
<u>Relative vapour density</u>	: not applicable

10. STABILITY AND REACTIVITY

<u>Conditions to avoid</u>	: no data available
<u>Materials to avoid</u>	: Strong acids and oxidizing agents
<u>Hazardous decomposition products</u>	: Carbon dioxide (CO ₂) Carbon monoxide nitrogen oxides (NO _x)
<u>Thermal decomposition</u>	: > 360 °C

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Hazardous reactions :

Stability:

No decomposition if used as directed.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity

: LD50 rat
Dose: > 2.000 mg/kg
Effects due to ingestion may include:
Vomiting

Acute inhalation toxicity

: no data available

Acute dermal toxicity

: no data available

Skin irritation

: Classification: No skin irritation
May cause skin irritation in susceptible persons.

Eye irritation

: Classification: No eye irritation
The liquid splashed in the eyes may cause irritation and reversible damage.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Toxicity to fish

: LC50Species: Leuciscus idus (Golden orfe)
Dose: 596 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

Land transport

▪ *ADR / GGVS:*

Regulation: Not dangerous goods

▪ *RID / GGVE:*

Regulation: Not dangerous goods

Sea transport

▪ *IMDG:*

Regulation: Not dangerous goods

Air transport

▪ *ICAO/IATA:*

Regulation: Not dangerous goods

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15. REGULATORY INFORMATION

Additional advice : The product is classified in accordance with Annex VI to Directive 67/548/EEC.

Special labelling of certain preparations : Safety datasheet available on request for professional users.

VOC: : no VOC duties

National legislation

16. OTHER INFORMATION

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

R10	Flammable.
R19	May form explosive peroxides.
R22	Harmful if swallowed.
R36	Irritating to eyes.
R60	May impair fertility.
R61	May cause harm to the unborn child.
R62	Possible risk of impaired fertility.
R63	Possible risk of harm to the unborn child.

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.