

## Material Safety Data Sheet

Print Date: 02/16/2006

Revision Date : 02/16/2006

Version : 2.0

Trade name: **Original ATE Brake Fluid SUPER DOT 4; 9m (DOT4)**

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Original ATE Brake Fluid SUPER DOT 4; 9m (DOT4)  
MSDS Number : 888100003546  
Product Use Description : Hydraulic fluid  
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

### SECTION 2. HAZARDS IDENTIFICATION

#### Emergency Overview

**Regulatory status** : While this material is not considered a WHMIS controlled product by the criteria in Sections 33 - 66, this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of the product.

Form : liquid  
Odour : characteristic  
Odour - Control parameters : no data available

#### Potential Health Effects

Carcinogenicity:

NTP : No component of this product which is present at levels greater than or equal to 0.1 % is identified as a known or anticipated carcinogen by NTP.

IARC : No component of this product which is present at levels greater than or equal to 0.1 % is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA : No component of this product which is present at levels greater than or equal to 0.1 % is identified as a carcinogen or potential carcinogen by OSHA.

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CA Prop 65 : This product does not contain any chemicals known to State of California to cause cancer, birth defects or any other reproductive harm.

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### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

No ingredients are hazardous according to the CPR criteria.

### SECTION 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.

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### SECTION 5. FIRE-FIGHTING MEASURES

Form : liquid

Flash point : > 118 °C (> 244 °F)  
Method: ISO 2719

Ignition temperature : > 200 °C (> 392 °F)  
Method: DIN 51794

Lower explosion limit : 1.5 %(V)

Upper explosion limit : Note: not determined

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

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- 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
- 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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### SECTION 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).
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### SECTION 7. HANDLING AND STORAGE

#### Handling

- 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
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materials and amines.

Storage temperature : 5 - 30 °C (41 - 86 °F)

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

### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Exposure Guidelines

Contains no substances with occupational exposure limit values.

- Protective measures : Avoid contact with skin, eyes and clothing.  
Do not breathe vapours or spray mist.
- Engineering measures : Provide adequate ventilation.
- Eye protection : In case of splash hazard, wear protective goggles.
- Hand protection : 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.
- Respiratory protection : In case of insufficient ventilation wear suitable respiratory equipment.  
respirator with A filter  
Respirator with a vapour filter (EN 141)
- 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.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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Form	: liquid
Odour	: characteristic
Flash point	: > 118 °C (> 244 °F) Method: ISO 2719
Ignition temperature	: > 200 °C (> 392 °F) Method: DIN 51794
Thermal decomposition	: > 360 °C (> 680 °F)
Lower explosion limit	: 1.5 %(V)
Upper explosion limit	: not determined
pH	: 7 - 8.5 at 20 °C (68 °F)
Boiling point/range	: > 260 °C(> 500 °F)
Vapour pressure	: < 1 mbar at 20 °C (68 °F)
Relative vapour density	: not determined
Density	: 1.065 - 1.085 g/cm <sup>3</sup> at 20 °C (68 °F)Method: DIN 51757
Bulk density	: not applicable
Water solubility	: at 20 °C (68 °F) soluble
Partition coefficient (n-octanol/water)	: not applicable
Viscosity, kinematic	: 15 - 17 mm <sup>2</sup> /s at 20 °C (68 °F)
VOC	: 13.1 %

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### SECTION 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 : Note: No decomposition if used as directed.

### SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50 rat  
Dose: > 5,000 mg/kg  
Effects due to ingestion may include:  
vomiting

Acute dermal toxicity : no data available

Acute inhalation toxicity : no data available

Sensitization : no data available

Carcinogenicity : No data is available on the product itself.  
Toxicity to reproduction : No data is available on the product itself.  
Teratogenicity : No data is available on the product itself.

### SECTION 12. ECOLOGICAL INFORMATION

Biodegradability : Result: Readily biodegradable.  
90 %

Physico-chemical removability : > 70 %  
readily eliminated

Bioaccumulation : no data available

Toxicity to fish : LC50  
Species: Leuciscus idus (Golden orfe)  
Dose: 250 - 350 mg/l  
Exposure time: 96 h

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Adsorbed organic bound halogens (AOX) : not included  
Volatile organic compounds (VOC) content : 13.1 %  
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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### SECTION 13. DISPOSAL CONSIDERATIONS

Adequate disposal : In accordance with local and national regulations.

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### SECTION 14. TRANSPORT INFORMATION

#### DOT 49 CFR

Not dangerous goods

#### TDGR

Not dangerous goods

#### ICAO / IATA-DGR

Not dangerous goods

#### IMDG-Code

Not dangerous goods

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### SECTION 15. REGULATORY INFORMATION

**TSCA Status** : **On TSCA Inventory**

**DSL Status** : All components of this product are on the Canadian DSL list.

**California Prop. 65** : This product does not contain any chemicals known to State of California to cause cancer, birth defects or any other reproductive harm.

**WHMIS Classification** : Not Rated

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This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

### SECTION 16. OTHER INFORMATION

#### 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.

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