

**Trade name: Original ATE – DOT4 – Brakefluid SL**Substance key : SXR024726  
Version : 5 – 16 / EURevision Date: 18.09.2003  
Date of printing: 30.09.2003**1. Identification of the substance/preparation and company****Trade name****Safebrake 6m (DOT4)****Use of the substance/preparation.**Industry sector : Functional Fluids  
Type of use : Automobile industry**Supplier**Continental Teves AG & Co. oHG  
D-60441 Frankfurt / Germany  
Telefax: +49 69 – 760 1061  
Telephone: +49 69 - 7603 - 1**Manufacturer**CLARIANT GmbH  
D-65926 Frankfurt  
N° de téléphone : +49 69 305 18000**Information about the substance/preparation**Division Functional Chemicals  
++49(0)69-305-2092/15315/32251**Emergency telephone number** : +49 69 305 6418**2. Composition/information on ingredients****Chemical characterization**

A mixture containing polyethylene glycol ethers, boric acid esters and amines with additives and stabilizers

**Hazardous ingredients**Diethylene glycol  
Concentration : < 10 %  
CAS number : 111-46-6  
EINECS number : 203-872-2  
Hazard symbols Xn  
R phrases 22Butyl polyglycol  
Concentration : < 20 %  
CAS number : 9004-77-7  
Hazard symbols Xi  
R phrases 36Triethylene glycol dimethyl ether  
Concentration : < 5 %  
CAS number : 112-49-2  
EINECS number : 203-977-3  
Hazard symbols Xn  
R phrases 62 631,1'-Iminodipropan-2-ol  
Concentration : < 5 %  
CAS number : 110-97-4  
EINECS number : 203-820-9  
Hazard symbols Xi  
R phrases 36**3. Hazards identification**

The preparation described in this Safety Data Sheet is not classified as dangerous but does contain at least one dangerous component according to Article 14, paragraph 2.1b of the EU Dangerous Preparations Directive 1999/45/EEC

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Remove soiled or soaked clothing immediately

**After inhalation**

When inhaled remove to fresh air and seek medical aid.

**After contact with skin**

In case of contact with skin wash off immediately with plenty of water

**After contact with eyes**

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice

**After ingestion**

Summon a doctor immediately.

**5. Fire-fighting measures****Suitable extinguishing media**water spray jet  
dry powder  
alcohol-resistant foam  
carbon dioxide**Special hazards from the substance itself, its combustion products or from its vapours**In case of fires, hazardous combustion gases are formed: Carbon monoxide (CO)  
Nitrous gases (NOx)**Special protective equipment for firefighting**

Use self-contained breathing apparatus

**6. Accidental release measures****Personal precautions**Ensure adequate ventilation.  
Wear suitable personal protective equipment.**Environmental precautions**

Do not allow to enter drains or waterways

**Methods for cleaning up/taking up**Pick up with absorbent material (eg sand, kieselgur, acid binder, universal binder, sawdust).  
Dispose of as prescribed**7. Handling and storage****Advice on safe handling**

No special measures necessary if stored and handled as prescribed.

**Advice on protection against fire and explosion**

Keep away from combustible materials

**Further information on storage conditions**

Keep container tightly closed and dry

**8. Exposure controls/personal protection****General protective measures**Avoid contact with eyes and skin  
Do not inhale vapours

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**Hygiene measures**

Keep away from foodstuffs and beverages.  
Use barrier skin cream.

**Respiratory protection :**

Use respiratory protection in case of insufficient exhaust ventilation or prolonged exposure  
Full mask to standard DIN EN 136  
Filter A (organic gases and vapours) to standard DIN EN 141  
The use of filter apparatus presupposes that the environment atmosphere contains at least 17% oxygen by volume, and does not exceed the maximum gas concentration, usually 0.5% by volume. Relevant guidelines to be considered include EN 136/141/143/371/372 as well as other national regulations.

**Hand protection :**

For long-term exposure:  
Butyl rubber gloves.  
Minimum breakthrough time / gloves : 480 min  
Minimum thickness / gloves 0,7 mm  
For short-term exposure (splash protection):  
Nitrile rubber gloves.  
Minimum breakthrough time / gloves : 30 min  
Minimum thickness / gloves 0,4 mm  
These types of protective gloves are offered by various manufacturers. Please note the manufacturers' detailed statements, especially about the minimum thickness and the minimum breakthrough time. Consider also the particular working conditions under which the gloves are being used.

**Eye protection :** safety glasses

**9. Physical and chemical properties**

<b>Form :</b>	Liquid
<b>Colour :</b>	yellow
<b>Odour :</b>	characteristic
<b>Solidifying Point :</b>	< -70 °C Method : DIN 51583
<b>Boiling temperature :</b>	> 260 °C ( 1.013 mbar) Method : FMVSS 116
<b>Flash point :</b>	> 130 °C Method : ISO 2592 (open cup)
<b>Ignition temperature :</b>	> 200 °C Method : DIN 51794
<b>Oxidizing properties :</b>	Not applicable
<b>Self-ignition temperature :</b>	not self-igniting
<b>Lower explosion limit :</b>	1,5 %(V)
<b>Upper explosion limit :</b>	not determined
<b>Evaporation rate :</b>	not determined
<b>Vapour pressure :</b>	< 1 mbar (20 °C)

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<b>Density :</b>	1,055 - 1,075 g/cm <sup>3</sup> (20 °C) Method : DIN 51757
<b>Bulk density :</b>	Not applicable
<b>Vapour density in relation to air :</b>	not determined
<b>Solubility in water :</b>	(20 °C) soluble
<b>Soluble in ... :</b>	fat not determined
<b>pH value :</b>	7,5 - 9 (20 °C) Method : FMVSS 116
<b>Octanol/water partition coefficient (log Pow) :</b>	Not applicable
<b>Viscosity (kinematic) :</b>	15 - 17,5 mm <sup>2</sup> /s ( 20 °C) Method : FMVSS 116
<b>Combustion number :</b>	Not applicable
<b>Further information</b>	The product is hygroscopic.

**10. Stability and reactivity**

<b>Thermal decomposition :</b>	approx. 360 °C
<b>Hazardous reactions</b>	No hazardous reactions when stored and handled according to prescribed instructions.

**11. Toxicological information**

<b>Acute oral toxicity :</b>	not determined
<b>Acute inhalation toxicity :</b>	not determined
<b>Acute dermal toxicity :</b>	not determined
<b>Irritant effect on skin :</b>	not determined
<b>Irritant effect on eyes :</b>	not determined
<b>Sensitization :</b>	not determined
<b>Mutagenicity :</b>	not determined

**Remarks**

The product was classified on the basis of the calculation procedure of the Dangerous Preparations Directive (1999/45/EC).

**12. Ecological information**

<b>Biodegradability :</b>	90 % (15 d) good degradability Method : static test
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<b>Fish toxicity :</b>	LC50 250 - 350 mg/l (96 h, golden orfe) Method : DIN 38412 T.15
<b>Bacteria toxicity :</b>	EC50 6,25 mg/l
<b>Dissolved Organic carbon (DOC) :</b>	490 mg/g
<b>Chemical oxygen demand (COD) :</b>	1.805 mg/g

**13. Disposal considerations****Product**

In accordance with regulations for special waste, must be taken to an authorised special waste incineration plant.

**14. Transport information**

<b>ADR</b>	not restricted
<b>ADNR</b>	not restricted
<b>RID</b>	not restricted
<b>IATA</b>	not restricted
<b>IMDG</b>	not restricted

**15. Regulatory information****Labelling in accordance with EC-Directives**

The product does not require a hazard warning label in accordance with EC Directives Classification according to the calculation procedure of the Dangerous Preparations Directive (1999/45/EC).

**Special labelling for certain preparations**

Safety Data Sheet available for professional user on request.

**National regulations****Other regulations**

MATC: not fixed.

**16. Other information****Text of the R-phrases which are allocated to the ingredients/components mentioned in section 2 of this Safety Data Sheet.**

- 22 Harmful if swallowed.
- 36 Irritating to eyes.
- 62 Possible risk of impaired fertility.
- 63 Possible risk of harm to the unborn child.

This information is based on our present state of knowledge. It should not therefore be construed as guaranteeing specific properties of the products described or their suitability for a particular application.