

Trade name: Original ATE – DOT4 – Brake Fluid Type 200

Substance key : SXR091757

Revision Date: 31.10.2003

Version : 4 – 17 / EU

Date of printing: 3/16/2005

1. Identification of the substance/preparation and company**Trade name** Safebrake 10m (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 glycol ether, poly glycol and their boric acid esters, amines, additives, and stabilizers

Hazardous ingredients

Capryl amine ethoxylate 2 - 4 EO

Concentration: < 5 %

CAS number: 15520-05-5

EINECS number: 239-555-0

Hazard symbols: Xn

R phrases: 22 38 41

Diethylene glycol

Concentration: < 5 %

CAS number: 111-46-6

EINECS number: 203-872-2

Hazard symbols: Xn

R phrases 22

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

4. First aid measures**General information**

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 soap and 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

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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 fire fighting

Use self-contained breathing apparatus

6. Accidental release measures**Personal precautions**

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 (e.g. 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

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

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Form :	Liquid
Colour :	yellow
Odour :	characteristic
Solidifying Point :	< -70 °C Method : DIN 51583
Boiling temperature :	> 280 °C (1.013 mbar) Method : FMVSS 116
Flash point :	> 130 °C Method : ISO 2592 (open cup)
Ignition temperature :	> 200 °C Method : DIN 51794
Oxidizing properties :	Not applicable
Self-ignition temperature :	not self-igniting
Lower explosion limit :	not determined
Upper explosion limit :	not determined
Evaporation rate :	not determined
Vapour pressure :	< 0,1 mbar (20 °C)
Density :	1,07 - 1,09 g/cm ³ (20 °C) Method : DIN 51757
Bulk density :	Not applicable
Vapour density in relation to air :	
Solubility in water :	approx. 350 g/l (20 °C) soluble
Soluble in ... :	fat not determined
pH value :	7 - 8 (20 °C) Method : FMVSS 116
Octanol/water partition coefficient (log Pow) :	not determined
Viscosity (kinematic) :	17 - 18 mm ² /s (20 °C) Method : FMVSS 116
Combustion number :	Not applicable
Further information	The product is hygroscopic.

10. Stability and reactivity

Thermal decomposition :	approx. 360 °C Source: Analogy
Hazardous reactions	No hazardous reactions when stored and handled according to prescribed instructions.

11. Toxicological information

Acute oral toxicity :	not determined
Acute inhalation toxicity :	not determined
Acute dermal toxicity :	not determined
Irritant effect on skin :	not determined
Irritant effect on eyes :	not determined
Sensitization :	not determined
Mutagenicity :	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

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Biodegradability :	97 % (14 d) readily degradable Method : OECD 301 E
Fish toxicity :	LC50 250 - 350 mg/l (96 h, golden orfe) Method : DIN 38412 T.15 Source : Analogy
Bacteria toxicity :	EC50 > 5 g/l (activated sludge) Method : OECD 209
Dissolved Organic carbon (DOC) :	498 mg/g
Chemical oxygen demand (COD) :	1.753 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

ADR	not restricted
ADNR	not restricted
RID	not restricted
IATA	not restricted
IMDG	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.
38 Irritating to skin.
41 Risk of serious damage to eyes.

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.

The data are based on the current state of our knowledge, and are intended to describe the product with regard to the requirements of safety. The data should not be taken to imply any guarantee of a particular or general specification. It is the responsibility of the user of the product to ensure to his satisfaction that the product is suitable for the intended purpose and method of use. We do not accept responsibility for any harm caused by the use of this information. In all cases, our general conditions of sale apply.