



# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 08.06.2015

Version number 5

Revision: 30.05.2015

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

**Trade name:** Original ATE Brake Fluid SUPER DOT 4

**Article number:** 03.9901-60xx.x / 7060xx

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

**Application of the substance / the mixture** hydraulic liquid

#### 1.3 Details of the supplier of the safety data sheet

##### Manufacturer/Supplier:

Continental Aftermarket GmbH

Guerickestr. 7

60488 Frankfurt a. M.

Germany

Tel: +49-69-76031

Fax: +49-69-761061

##### Further information obtainable from:

Gefahrstoffmanagement Konzern, Zentrales Materiallabor

ate.sicherheit@contiautomotive.com

#### 1.4 Emergency telephone number: +49-6132-84463

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification according to Regulation (EC) No 1272/2008

The product is not classified according to the CLP regulation.

#### 2.2 Label elements

**Labelling according to Regulation (EC) No 1272/2008** Void

**Hazard pictograms** Void

**Signal word** Void

**Hazard statements** Void

##### Additional information:

Safety data sheet available on request.

#### 2.3 Other hazards

##### Results of PBT and vPvB assessment

**PBT:** Not applicable.

**vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

#### 3.2 Chemical characterisation: Mixtures

**Description:** Mixture of substances listed below with nonhazardous additions.

##### Dangerous components:

CAS: 111-46-6	2,2'-oxybisethanol	<10%
EINECS: 203-872-2	☠ STOT RE 2, H373; ☠ Acute Tox. 4, H302	
CAS: 110-97-4	1,1'-iminodipropan-2-ol	<10%
EINECS: 203-820-9	☠ Eye Irrit. 2, H319	

**Additional information:** For the wording of the listed risk phrases refer to section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

**General information:** Remove contaminated clothes and shoes immediately.

**After inhalation:** Supply fresh air; consult doctor in case of complaints.

**After skin contact:** Immediately wash with water and soap and rinse thoroughly.

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**After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

**After swallowing:** Call a doctor immediately.**4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

**4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

### SECTION 5: Firefighting measures

**5.1 Extinguishing media****Suitable extinguishing agents:**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Use fire extinguishing methods suitable to surrounding conditions.

**For safety reasons unsuitable extinguishing agents:** Water with full jet

**5.2 Special hazards arising from the substance or mixture**

May be released in case of fire: CO, CO<sub>2</sub>, NO<sub>x</sub>

**5.3 Advice for firefighters****Protective equipment:**

Do not inhale explosion gases or combustion gases.

Wear self-contained respiratory protective device.

### SECTION 6: Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

**6.2 Environmental precautions:**

Do not allow product to reach sewage system or any water course.

Do not allow to penetrate the ground/soil.

**6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of the material collected according to regulations.

**6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### SECTION 7: Handling and storage

**7.1 Precautions for safe handling**

Keep out of the reach of children.

Open and handle receptacle with care.

Ensure good ventilation/exhaustion at the workplace.

**Information about fire - and explosion protection:** No special measures required.

**7.2 Conditions for safe storage, including any incompatibilities****Storage:**

**Requirements to be met by storerooms and receptacles:** Storage at room temperature.

**Information about storage in one common storage facility:** Store away from foodstuffs.

**Further information about storage conditions:**

Store in dry conditions.

This product is hygroscopic.

Keep container tightly sealed.

**Storage class:** 10 combustible liquids.

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**7.3 Specific end use(s)** No further relevant information available.

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### SECTION 8: Exposure controls/personal protection

**Additional information about design of technical facilities:** No further data; see item 7.

#### 8.1 Control parameters

**Ingredients with limit values that require monitoring at the workplace:**
**111-46-6 2,2'-oxybisethanol**

 WEL Long-term value: 101 mg/m<sup>3</sup>, 23 ppm

#### DNELs

**111-46-6 2,2'-oxybisethanol**

Dermal	DNEL Arbeiter langfristig systemisch	106 mg/kg bw/d (-)
	DNEL Public long-term systemic	53 mg/kg bw/d (-)
Inhalative	DNEL Arbeiter langfristig lokale Effekte	60 mg/m <sup>3</sup> (-)
	DNEL Public long-term local effects	12 mg/m <sup>3</sup> (-)

#### PNECs

**111-46-6 2,2'-oxybisethanol**

PNEC Erdreich	1.53 mg/kg soil dw (-)
PNEC Kläranlage	199.5 mg/L (-)
PNEC Sediment (Frischwasser)	20.9 mg/kg sedim dw (-)
PNEC aqua (Frischwasser)	10 mg/L (-)
PNEC aqua (Meerwasser)	1 mg/L (-)

#### 8.2 Exposure controls

##### Personal protective equipment:

##### General protective and hygienic measures:

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

##### Respiratory protection:

If occupational exposure limits are exceeded, use breathing mask (filter type A). Wear self-contained breathing apparatus in case of danger of oxygen displacement.

##### Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

##### Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

##### Penetration time of glove material

Butyl caoutchouc (butyl rubber): minimum breakthrough times 180 min; minimum layer thickness: 0.7 mm

NBR (nitrile rubber): minimum breakthrough times 30 min; minimum layer thickness: 0.4 mm

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

##### Eye protection: Safety glasses

##### Limitation and supervision of exposure into the environment

See section 6 and 7. No additional measures necessary.

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### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

##### General Information

##### Appearance:

Form:	Fluid
Colour:	Light yellow
Odour:	Characteristic
Odour threshold:	Not determined.

pH-value at 20 °C: 7-8.5 (FMVSS 116)

##### Change in condition

Melting point/Melting range:	< -70 °C (DIN 51583)
Boiling point/Boiling range:	> 260 °C

Flash point: 134 °C (ASTM D 7094 (closed cup))

Flammability (solid, gaseous): Not applicable.

Ignition temperature: 200 °C (DIN 51794)

Decomposition temperature: 360 °C (Analogy)

Self-igniting: Product is not selfigniting.

Danger of explosion: Product does not present an explosion hazard.

##### Explosion limits:

Lower:	1.5 Vol % (V)
Upper:	Not determined.

Vapour pressure at 20 °C: < 1 mbar

Density at 20 °C:	1.075 g/cm <sup>3</sup>
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
water:	Fully miscible.

Partition coefficient (n-octanol/water): Not determined.

##### Viscosity:

Dynamic:	Not determined.
Kinematic at 20 °C:	15-17 mm <sup>2</sup> /s (FMVSS 116)

##### Solvent content:

Organic solvents: 8.0 %

Solids content: 4.9 %

9.2 Other information No further relevant information available.

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

#### 10.2 Chemical stability

##### Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions No dangerous reactions known.

10.4 Conditions to avoid No further relevant information available.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products: No dangerous decomposition products known.

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

#### LD/LC50 values relevant for classification:

Oral	LD50	>5000 mg/kg (rat)
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#### Primary irritant effect:

**Skin corrosion/irritation** No irritant effect.

**Serious eye damage/irritation** No irritating effect.

**Respiratory or skin sensitisation** No sensitising effects known.

#### Additional toxicological information:

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)** None.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity:

EC50	15 mg/l (bacteria)
	250-350 mg/l (fish)

**12.2 Persistence and degradability** No further relevant information available.

**Other information:** The product is easily biodegradable.

**12.3 Bioaccumulative potential** No further relevant information available.

**12.4 Mobility in soil** No further relevant information available.

#### Additional ecological information:

#### General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow product to reach ground water, water course or sewage system.

**12.5 Results of PBT and vPvB assessment** Not applicable.

**PBT:** Not applicable.

**vPvB:** Not applicable.

**12.6 Other adverse effects** No further relevant information available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Waste disposal according EC-regulations 75/442/EEC and 91/689/EEC in the corresponding versions, covering waste and dangerous waste.

**Recommendation** Must be specially treated adhering to official regulations.

#### Uncleaned packaging:

#### Recommendation:

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

## SECTION 14: Transport information

### 14.1 UN-Number

ADR, ADN, IMDG, IATA	Void
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### 14.2 UN proper shipping name

ADR, ADN, IMDG, IATA	Void
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**14.3 Transport hazard class(es)**
**ADR, ADN, IMDG, IATA  
Class**

Void

**14.4 Packing group  
ADR, IMDG, IATA**

Void

**14.5 Environmental hazards:  
Marine pollutant:**

No

**14.6 Special precautions for user**

Not applicable.

**14.7 Transport in bulk according to Annex II  
of MARPOL73/78 and the IBC Code**

Not applicable.

**UN "Model Regulation":**

UN-, -

**SECTION 15: Regulatory information**
**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

No further relevant information available.

**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Relevant phrases**

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

H373 May cause damage to the kidneys through prolonged or repeated exposure. Route of exposure: Oral.

**Recommended restriction of use**

Reserved for industrial and professional use.

For industrial purposes only.

**Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Acute Tox. 4: Acute toxicity, Hazard Category 4

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

**Sources**
<http://www.dguv.de/ifa/de/gestis/stoffdb/>
<http://echa.europa.eu/information-on-chemicals/cl-inventory>
<http://echa.europa.eu/web/guest/information-on-chemicals/registered-substances>
<http://www.reach-clp-biozid-helpdesk.de/de/Downloads/CLP-VO/>

CLP VO Anhang VI Tabelle 3 2.pdf

**\* Data compared to the previous version altered.**