



# Safety Data Sheet

acc. to OSHA HCS

Printing date 06/08/2015

Version 5

Reviewed on 05/30/2015

## 1 Identification

### Product identifier

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

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

### 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

### 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

#### Information department:

Gefahrstoffmanagement Konzern, Zentrales Materiallabor

ate.sicherheit@contiautomotive.com

**Emergency telephone number:** +49-6132-84463

## 2 Hazard(s) identification

### Classification of the substance or mixture



Health hazard

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

### Label elements

#### GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

**Hazard pictograms** GHS08

**Signal word** Warning

#### Hazard-determining components of labeling:

2,2'-oxybisethanol

#### Hazard statements

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

#### Precautionary statements

Do not breathe dust/fume/gas/mist/vapors/spray.

Get medical advice/attention if you feel unwell.

Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Classification system:

#### NFPA ratings (scale 0 - 4)



Health = 0

Fire = 1

Reactivity = 0

#### HMIS-ratings (scale 0 - 4)



HEALTH 0 Health = 0

FIRE 1 Fire = 1

REACTIVITY 0 Reactivity = 0

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**Other hazards****Results of PBT and vPvB assessment**

PBT: Not applicable.

vPvB: Not applicable.

### 3 Composition/information on ingredients

**Chemical characterization: Mixtures****Description:** Mixture of the substances listed below with nonhazardous additions.**Dangerous components:**

111-46-6	2,2'-oxybisethanol ⚠ STOT RE 2, H373; ⚠ Acute Tox. 4, H302	<10%
110-97-4	1,1'-iminodipropan-2-ol ⚠ Eye Irrit. 2A, H319	<10%

### 4 First-aid measures

**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.**After eye contact:**

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

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

No further relevant information available.

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

No further relevant information available.

### 5 Fire-fighting measures

**Extinguishing media****Suitable extinguishing agents:**CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Use fire fighting measures that suit the environment.

**For safety reasons unsuitable extinguishing agents:** Water with full jet**Special hazards arising from the substance or mixture**May be released in case of fire: CO, CO<sub>2</sub>, NO<sub>x</sub>**Advice for firefighters****Protective equipment:**

Do not inhale explosion gases or combustion gases.

Wear self-contained respiratory protective device.

### 6 Accidental release measures

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

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

**Environmental precautions:**

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

Do not allow to penetrate the ground/soil.

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

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose of the collected material according to regulations.

**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.

## 7 Handling and storage

**Handling:**
**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 protection against explosions and fires:** No special measures required.

**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 receptacle tightly sealed.

**Storage class:** 10 combustible liquids.

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

## 8 Exposure controls/personal protection

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

**Control parameters**
**Components with limit values that require monitoring at the workplace:**

111-46-6 2,2'-oxybisethanol

WEEL | Long-term value: 10 mg/m<sup>3</sup>

**Exposure controls**
**Personal protective equipment:**
**General protective and hygienic measures:**

Do not inhale gases / fumes / aerosols.  
Avoid contact with the eyes and skin.

**Breathing equipment:**

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

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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.

## 9 Physical and chemical properties

### Information on basic physical and chemical properties

#### General Information

#### Appearance:

<b>Form:</b>	Fluid
<b>Color:</b>	Light yellow
<b>Odor:</b>	Characteristic
<b>Odour threshold:</b>	Not determined.

**pH-value at 20 °C (68 °F):** 7-8.5 (FMVSS 116)

#### Change in condition

<b>Melting point/Melting range:</b>	< -70 °C (< -94 °F) (DIN 51583)
<b>Boiling point/Boiling range:</b>	> 260 °C (> 500 °F)

**Flash point:** 134 °C (273 °F) (ASTM D 7094 (closed cup))

**Flammability (solid, gaseous):** Not applicable.

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

**Decomposition temperature:** 360 °C (680 °F) (Analogy)

**Auto igniting:** Product is not selfigniting.

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

#### Explosion limits:

<b>Lower:</b>	1.5 Vol % (V)
<b>Upper:</b>	Not determined.

**Vapor pressure at 20 °C (68 °F):** < 1 mbar

**Density at 20 °C (68 °F):** 1.075 g/cm<sup>3</sup> (8.971 lbs/gal)

**Relative density** Not determined.

**Vapour density** Not determined.

**Evaporation rate** Not determined.

**Water:** Fully miscible.

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

#### Viscosity:

<b>Dynamic:</b>	Not determined.
<b>Kinematic at 20 °C (68 °F):</b>	15-17 mm <sup>2</sup> /s (FMVSS 116)

#### Solvent content:

<b>Organic solvents:</b>	8.0 %
<b>VOC content:</b>	8.0 %

**Solids content:** 4.9 %

**Other information** No further relevant information available.

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## 10 Stability and reactivity

### Reactivity

#### Chemical stability

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

No decomposition if used according to specifications.

**Possibility of hazardous reactions** No dangerous reactions known.

**Conditions to avoid** No further relevant information available.

**Incompatible materials:** No further relevant information available.

**Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

### Information on toxicological effects

#### Acute toxicity:

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

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

**on the skin:** No irritant effect.

**on the eye:** No irritating effect.

**Sensitization:** No sensitizing effects known.

#### Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations:

#### Carcinogenic categories

#### IARC (International Agency for Research on Cancer)

None of the ingredients is listed.
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#### NTP (National Toxicology Program)

None of the ingredients is listed.
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#### OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.
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## 12 Ecological information

### Toxicity

#### Aquatic toxicity:

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

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

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

#### Behavior in environmental systems:

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

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

#### Additional ecological information:

#### General notes:

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

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

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

**PBT:** Not applicable.

**vPvB:** Not applicable.

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Other adverse effects No further relevant information available.

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## 13 Disposal considerations

### 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 packagings:

#### Recommendation:

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

## 14 Transport information

<b>UN-Number</b> DOT, ADR, ADN, IMDG, IATA	Void
<b>UN proper shipping name</b> DOT, ADR, ADN, IMDG, IATA	Void
<b>Transport hazard class(es)</b> DOT, ADR, ADN, IMDG, IATA Class	Void
<b>Packing group</b> DOT, ADR, IMDG, IATA	Void
<b>Environmental hazards:</b> <b>Marine pollutant:</b>	No
<b>Special precautions for user</b>	Not applicable.
<b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
<b>UN "Model Regulation":</b>	UN-, -

## 15 Regulatory information

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

Sara

### Section 355 (extremely hazardous substances):

None of the ingredients is listed.

### Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

### TSCA (Toxic Substances Control Act):

23783-42-8	2-(2-methoxyethoxy)ethanol
112-35-6	2-(2-(2-methoxyethoxy)ethoxy)ethanol
111-46-6	2,2'-oxybisethanol
110-97-4	1,1'-iminodipropan-2-ol
67701-06-8	Fatty acids, C14-18 and C16-18-unsatd
68442-68-2	Benzenamine, N-phenyl-, styrenated
29385-43-1	methyl-1H-benzotriazole

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4314-14-1 Fat Yellow 3G

68439-46-3 Alcohol ethoxylate (C9-C11, 6 EO)

**Proposition 65****Chemicals known to cause cancer:**

None of the ingredients is listed.

**Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

**Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

**Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

**Carcinogen categories****EPA (Environmental Protection Agency)**

None of the ingredients is listed.

**TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

**NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

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

## 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.

**Recommended restriction of use**

Reserved for industrial and professional use.

For industrial purposes only.

**Date of preparation / last revision** 06/08/2015 / 4**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

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Acute Tox. 4: Acute toxicity, Hazard Category 4

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

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

**Sources**

\* Data compared to the previous version altered.