



# Safety Data Sheet

## acc. to OSHA HCS

Printing date 05/30/2015

Version 6

Reviewed on 05/30/2015

### 1 Identification

#### Product identifier

**Trade name:** Original ATE Brake Fluid DOT 3 G (yellow)

**Article number:** 03.9901-53xx.x / 7053xx

#### 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

Suspected of damaging fertility or the unborn child.

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-methoxyethoxy)ethanol

2,2'-oxybisethanol

##### Hazard statements

Suspected of damaging fertility or the unborn child.

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.

Wear eye protection / face protection.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

IF exposed or concerned: Get medical advice/attention.

Get medical advice/attention if you feel unwell.

Store locked up.

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

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**Classification system:****NFPA ratings (scale 0 - 4)**

Health = 0  
Fire = 1  
Reactivity = 0

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

Health = \*0  
Fire = 1  
Reactivity = 0

**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:**

161907-77-3	Ethanol, 2-butoxy-, manufacture of, by-products from ⚠ Eye Dam. 1, H318	<20%
111-46-6	2,2'-oxybisethanol ⚠ STOT RE 2, H373; ⚠ Acute Tox. 4, H302	<10%
111-77-3	2-(2-methoxyethoxy)ethanol ⚠ Repr. 2, H361; Flam. Liq. 4, H227	<3%

### 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>

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### 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.

#### 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.

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**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

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):** 7.5 - 10 (FMVSS 116)

#### Change in condition

<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	> 245 °C (> 473 °F) (FMVSS 116)

**Flash point:** > 130 °C (> 266 °F) (ASTM D 7094 (closed cup))

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

**Ignition temperature:** 230 °C (446 °F) (DIN 51794)

**Decomposition temperature:** >360 °C (>680 °F) (DSC)

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

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

#### Explosion limits:

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

**Vapor pressure at 20 °C (68 °F):** < 10 hPa (< 8 mm Hg)

**Density at 20 °C (68 °F):** 1.04 g/cm<sup>3</sup> (8.679 lbs/gal)

**Relative density** Not determined.

**Vapour density** Not determined.

**Evaporation rate** Not determined.

**Water:** Fully miscible.

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

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**Viscosity:****Dynamic:**

Not determined.

**Kinematic at 20 °C (68 °F):**14.5 - 17 mm<sup>2</sup>/s (FMVSS 116)**Solvent content:****Organic solvents:**

37.9 %

**Water:**

0.1 %

**VOC content:**

37.9 %

**Other information**

No further relevant information available.

## 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	>2000 mg/kg (-)
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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:****Carcinogenic categories****IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

**NTP (National Toxicology Program)**

None of the ingredients is listed.

**OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

## 12 Ecological information

**Toxicity****Aquatic toxicity:**

EC50	>15000 mg/l (bacteria)
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LL50	596 mg/L (fish) (DIN 38412)
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**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.

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**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.

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

## 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

**UN-Number**

DOT, ADR, ADN, IMDG, IATA Void

**UN proper shipping name**

DOT, ADR, ADN, IMDG, IATA Void

**Transport hazard class(es)**

DOT, ADR, ADN, IMDG, IATA  
Class Void

**Packing group**

DOT, ADR, IMDG, IATA Void

**Environmental hazards:**

**Marine pollutant:** No

**Special precautions for user**

Not applicable.

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

Not applicable.

**UN "Model Regulation":**

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):**

143-22-6 2-[2-(2-butoxyethoxy)ethoxy]ethanol

111-77-3 2-(2-methoxyethoxy)ethanol

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**TSCA (Toxic Substances Control Act):**

23783-42-8	2-(2-methoxyethoxy)ethanol
112-35-6	2-(2-(2-methoxyethoxy)ethoxy)ethanol
161907-77-3	Ethanol, 2-butoxy-, manufacture of, by-products from
112-27-6	2,2'-(ethylenedioxy)diethanol
111-46-6	2,2'-oxybisethanol
112-60-7	3,6,9-trioxaundecane-1,11-diol
111-77-3	2-(2-methoxyethoxy)ethanol
24991-55-7	Polyethylenglykol dimethylether
110-97-4	1,1'-iminodipropan-2-ol
4792-15-8	3,6,9,12-tetraoxatetradecane-1,14-diol
26780-96-1	2, 2, 4-trimethyl-1, 2-dihydroquinoline polymer
29385-43-1	methyl-1H-benzotriazole
4314-14-1	Fat Yellow 3G
68439-46-3	Alcohol ethoxylate (C9-C11, 6 EO)
7732-18-5	water, distilled, conductivity or of similar purity

**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.

**Carcinogenicity 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.

**Date of preparation / last revision** 05/30/2015 / 5

**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)

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LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Flam. Liq. 4: Flammable liquids, Hazard Category 4

Acute Tox. 4: Acute toxicity, Hazard Category 4

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

Repr. 2: Reproductive toxicity, Hazard Category 2

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

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

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