



# Safety Data Sheet

according to P.U.(A) 310/2013

Printing date 11.10.2023

Version number 6

Revision: 31.07.2023

## 1 Identification of the hazardous chemical and of the supplier

### Product identifier

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

**Article number:** 03.9901-03xx.x / 7003xx

### Recommended use of the chemical and restrictions on use

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 & Services GmbH

Sodener Straße 9

D-65824 Schwalbach am Taunus

Tel: +49-6196-87-0

#### Further information obtainable from:

Gefahrstoffmanagement Konzern, Zentrales Materiallabor

ate.sicherheit@contiautomotive.com

#### Emergency telephone number:

Malaysia National Poison Centre, USM

National Poison Centre Universiti Sains Malaysia 11800 Penang Malaysia

Tel: +604-657 0099

Emergency number:

Office Hours: +604-657 0099 (Monday-Friday: 8.10am-5.10pm)

After Office Hours: +6012-430 9499 (including weekends and public holidays)

Fax: +604-656 8417

Email: prnnet@usm.my

## 2 Hazard identification

### Classification of the substance or mixture

The product is not classified, according to the Globally Harmonised System (GHS).

### Label elements

**GHS label elements** Void

**Hazard pictograms** Void

**Signal word** Void

**Hazard statements** Void

### Other hazards

### Results of PBT and vPvB assessment

**PBT:** Not applicable.

**vPvB:** Not applicable.

## 3 Composition and information of the ingredients of the hazardous chemical

### Chemical characterisation: Mixtures

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

#### Dangerous components:

	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol	<20%
	Eye Dam. 1, H318 Specific concentration limits: Eye Dam. 1; H318: $C \geq 30\%$ Eye Irrit. 2; H319: $20\% \leq C < 30\%$	

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111-46-6	2,2'-oxybisethanol	<10%
	Acute Tox. 4, H302	
111-77-3	2-(2-methoxyethoxy)ethanol	<3%
	Repr. 1B, H360	
	Specific concentration limit: Repr. 1B; H360: C ≥ 3 %	

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

#### 4 First-aid measures

**Description of first aid measures**

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

**After inhalation:** Supply fresh air or oxygen; call for doctor.

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

**After eye contact:**

Rinse opened eye for several minutes under running water. Then 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 extinguishing methods suitable to surrounding conditions.

**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:**

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

#### 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).

Dispose of the material collected 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.

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## 7 Handling and storage

### Handling:

**Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.

**Information about fire - and explosion protection:** 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 flammable substances.

Store away from foodstuffs.

#### Further information about storage conditions:

Store in dry conditions.

This product is hygroscopic.

Keep container tightly sealed.

**Storage class according to TRGS 510:** 10 combustible liquids.

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

## 8 Exposure controls and personal protection

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

### Control parameters

#### Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

### Exposure controls

#### Personal protective equipment:

##### General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Use skin protection cream for skin protection.

##### 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 time 480 min; minimum layer thickness: 0.7 mm

NBR (nitrile rubber): minimum breakthrough time 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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## 9 Physical and chemical properties

### Information on basic physical and chemical properties

#### General Information

#### Appearance:

<b>Form:</b>	Fluid
<b>Colour:</b>	Blue
<b>Odour:</b>	Characteristic
<b>Odour threshold:</b>	Not determined.

**pH-value at 20 °C:** 7.5-10 (FMVSS 116)

#### Change in condition

<b>Melting point/freezing point</b>	<-70 °C (DIN 51583)
<b>Initial boiling point and boiling range</b>	>245 °C (FMVSS 116)

**Flash point:** ≥130 °C ((ASTM D 7094-closed cup)

**Flammability (solid, gas)** Not applicable.

**Auto-ignition temperature** 230 °C (DIN 51794)

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

**Auto-ignition temperature** Product is not selfigniting.

**Explosive properties:** Product does not present an explosion hazard.

#### Explosion limits:

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

**Vapour pressure at 20 °C:** <10 hPa

**Density at 20 °C:** 1.04-1.07 g/cm<sup>3</sup> (DIN 51757)

**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:</b>	14.5-17 mm <sup>2</sup> /s (FMVSS 116)

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

## 10 Stability and reactivity

**Reactivity** No further relevant information available.

#### 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:

Carbon monoxide and carbon dioxide

Nitrogen oxides (NO<sub>x</sub>)



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## 11 Toxicological information

### Information on toxicological effects

#### Acute toxicity

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

The ATE values (all routes of exposure) exceeding the upper limits of classification to Category 5

#### Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol

Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>3,000 mg/kg (rabbit)

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

Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)

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

Oral	LD50	4,160 mg/kg (Guinea Pig) (OECD 401)
Dermal	LD50	>5,000 mg/kg (rabbit) (OECD 402)

#### Primary irritant effect:

**Skin corrosion or irritation** Based on available data, the classification criteria are not met.

#### Serious eye damage or eye irritation

Based on available data, the classification criteria are not met.

**Respiratory / skin sensitization** Based on available data, the classification criteria are not met.

#### Additional toxicological information:

#### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

**Carcinogenicity** Based on available data, the classification criteria are not met.

**Reproductive toxicity** Based on available data, the classification criteria are not met.

#### Specific target organ toxicity (STOT) – single exposure

Based on available data, the classification criteria are not met.

#### Specific target organ toxicity (STOT) – repeated exposure

Based on available data, the classification criteria are not met.

**Aspiration hazard** Based on available data, the classification criteria are not met.

## 12 Ecological information

### Toxicity

#### Aquatic toxicity:

LC50	>100 mg/L (fish) (DIN38412)
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#### Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol

EC50	>100 mg/l (Algae)
LC50	>100 mg/L (daphnia)
	>100 mg/L (fish) (DIN 38412 96 h)

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

EC50	>100 mg/l (Algae)
	>100 mg/l (daphnia) (DIN 38412 T.11)
LC50	>100 mg/L (fish) (96 h)

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

EC50 (static)	>100 mg/l (Algae) (OECD 201 96 h)
	>100 mg/l (daphnia) (EPA 48 h)
LC50 (static)	>100 mg/L (fish) (EPA 96 h)

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

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

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**Behaviour 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 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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

**vPvB:** Not applicable.

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

### 13 Disposal information

**Waste treatment methods**

Disposal should be based on the relevant state and local laws and regulations, the disposal process should avoid pollution of the environment.

**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.

### 14 Transportation information

**UN-Number**
**ADR, IMDG, IATA**

Void

**UN proper shipping name**
**ADR, IMDG, IATA**

Void

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

Void

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

Void

**Environmental hazards:**

Not applicable.

**Special precautions for user**

Not applicable.

**Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable.

**UN "Model Regulation":**

Void

### 15 Regulatory information

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

No further relevant information available.

**EHS reference list**

111-46-6	2,2'-oxybisethanol
111-77-3	2-(2-methoxyethoxy)ethanol

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**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** For industrial or professional purposes only.

**Department issuing SDS:**

Gefahrstoffmanagement Konzern  
ate.sicherheit@contiautomotive.com

**Abbreviations and acronyms:**

ADR: Accord relatif au transport international 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

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity - oral – Category 4

Eye Dam. 1: Serious eye damage or eye irritation – Category 1

Repr. 1B: Reproductive toxicity – Category 1B

**Sources**

<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](http://www.reach-clp-biozid-helpdesk.de/de/Downloads/CLP-VO/CLP_VO_Anhang_VI_Tabelle_3_2.pdf)

<http://www.safeworkaustralia.gov.au/>

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

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