

## 1 Identification of the substance or mixture and of the supplier

### Other means of identification

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

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

### 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:

AUMOVIO Aftermarket GmbH

Guerickestr. 7

60488 Frankfurt a. M.

Germany

Tel: +49-69-76031

Importer:

Name:

Address:

Phone:

e-Mail:

#### Further information obtainable from:

Hazardous Substances Management Aftermarket, Central Materials Laboratory

ate.sicherheit@aumovio.com

#### Emergency telephone number:

INFOTRAC

+1-352-323-3500 (International)

## 2 Hazards 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/Information on ingredients

### Chemical characterisation: Mixtures

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

(Contd. on page 2)

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

(Contd. of page 1)

**Dangerous components:**

	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Eye Dam. 1, H318; Acute Tox. 5, H313 Specific concentration limits: Eye Dam. 1; H318: C ≥ 30 % Eye Irrit. 2; H319: 20 % ≤ C < 30 %	≥15-<20%
143-22-6	2-[2-(2-butoxyethoxy)ethoxy]ethanol Eye Dam. 1, H318; Acute Tox. 5, H313 Specific concentration limits: Eye Dam. 1; H318: C ≥ 30 % Eye Irrit. 2; H319: 20 % ≤ C < 30 %	≥10-<15%
111-46-6	2,2'-oxybisethanol Acute Tox. 4, H302	≥5-<10%
1559-34-8	3,6,9,12-Tetraoxahexadecan-1-ol Serious eye damage/irritation – Category 2A, H319; Acute Tox. 5, H303	≥2.5-<5%
111-77-3	2-(2-methoxyethoxy)ethanol Repr. 1B, H360; Flammable liquids 4, H227; Acute Tox. 5, H303 Specific concentration limit: Repr. 1B; H360D: C ≥ 3 %	≥2.5-<3%

**Additional information:**

For the wording of the listed hazard phrases refer to section 16.

CAS 143-22-6 and 1559-34-8 are part of the Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol, for which the SCL applies.

### 4 First aid measures

**Description of first aid measures**
**General information:**

Remove contaminated clothes and shoes immediately.

Get medical advice/attention if you feel unwell.

**After inhalation:**

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Seek medical treatment.

**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>

(Contd. on page 3)



# Safety Data Sheet

## according to UN-GHS

Date of issue: 20.11.2025

Version number 7.0

Revision: 01.11.2025

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

(Contd. of page 2)

### 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.

## 7 Handling and storage

### Handling:

#### Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.

**Information about fire - and explosion protection:** Temperature class: T3

#### 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.

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

## 8 Exposure controls/personal protection

**Appropriate engineering controls** No further data; see section 7.

#### Control parameters

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

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

WEEL (USA) Long-term value: 10 mg/m<sup>3</sup>

(Contd. on page 4)

EN-UN



# Safety Data Sheet

## according to UN-GHS

Date of issue: 20.11.2025

Version number 7.0

Revision: 01.11.2025

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

(Contd. of page 3)

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

IOELV (EU)	Long-term value: 50.1 mg/m <sup>3</sup> , 10 ppm Skin
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#### 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:** Use suitable respiratory protective device in case of insufficient ventilation.

#### 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.

## 9 Physical and chemical properties

### Information on basic physical and chemical properties

#### General Information

#### Appearance:

Form:	Fluid
Colour:	Blue
Odour:	Characteristic
Odour threshold:	Not determined.

pH-value at 20 °C:	7.5-10 (FMVSS 116)
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#### Change in condition

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

Flash point:	≥130 °C ((ASTM D 7094-closed cup)
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Flammability	Not applicability.
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Auto-ignition temperature:	230 °C (DIN 51794)
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Decomposition temperature:	>360 °C (DSC)
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Ignition temperature:	Product is not selfigniting.
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Explosive properties:	Product does not present an explosion hazard.
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(Contd. on page 5)

EN-UN



# Safety Data Sheet

## according to UN-GHS

Date of issue: 20.11.2025

Version number 7.0

Revision: 01.11.2025

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

(Contd. of page 4)

**Explosion limits:**

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

**Vapour pressure at 20 °C:** <10 hPa

<b>Density at 20 °C:</b>	1.04-1.07 g/cm <sup>3</sup> (DIN 51757)
<b>Relative density</b>	Not determined.
<b>Vapour density</b>	Not determined.
<b>Evaporation rate</b>	Not determined.
<b>water:</b>	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)

<b>Other information</b>	No further relevant information available.
<b>Particle characteristics</b>	Not applicable.
<b>Physical state</b>	Liquid

## 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>)

## 11 Toxicological information

**Information on toxicological effects****Acute toxicity****LD/LC50 values relevant for classification:****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	>4,000 mg/kg (Guinea Pig) (OECD 401)
Dermal	LD50	>5,000 mg/kg (rabbit) (OECD 402)

(Contd. on page 6)

EN-UN



# Safety Data Sheet

## according to UN-GHS

Date of issue: 20.11.2025

Version number 7.0

Revision: 01.11.2025

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

(Contd. of page 5)

**Primary irritant effect:****Skin corrosion/irritation** Based on available data, the classification criteria are not met.**Serious eye damage/irritation** Based on available data, the classification criteria are not met.**Respiratory or skin sensitisation** 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.**STOT-single exposure** Based on available data, the classification criteria are not met.**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 &gt;100 mg/L (fish) (DIN38412)

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

EC50 &gt;100 mg/l (algae)

LC50 &gt;100 mg/L (daphnia)

&gt;100 mg/L (fish) (DIN 38412 96 h)

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

EC50 &gt;100 mg/l (algae)

&gt;100 mg/l (daphnia) (DIN 38412 T.11)

LC50 &gt;100 mg/L (fish) (96 h)

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

EC50 (static) &gt;100 mg/l (algae) (OECD 201 96 h)

&gt;100 mg/l (daphnia) (EPA 48 h)

LC50 (static) &gt;100 mg/L (fish) (EPA 96 h)

**Persistence and degradability** No further relevant information available.**Other information:** The product is easily biodegradable.**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.

EN-UN

(Contd. on page 7)



# Safety Data Sheet

## according to UN-GHS

Date of issue: 20.11.2025

Version number 7.0

Revision: 01.11.2025

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

(Contd. of page 6)

### 13 Disposal considerations

#### 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 Transport information

<b>UN-Number</b> ADR, IMDG, IATA	Void
<b>UN proper shipping name</b> ADR, IMDG, IATA	Void
<b>Transport hazard class(es)</b> ADR, ADN, IMDG, IATA Class	Void
<b>Packing group</b> ADR, IMDG, IATA	Void
<b>Environmental hazards:</b>	Not applicable.
<b>Special precautions for user</b>	Not applicable.
<b>Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
<b>UN "Model Regulation":</b>	Void

### 15 Regulatory information

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

#### National regulations:

#### Information about limitation of use:

Employment restrictions concerning pregnant and lactating women must be observed.

**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.

It is the sole responsibility of the importer or distributor to identify and comply with all legal requirements necessary for the lawful placing of chemical products on the market in the respective target countries.

#### Relevant phrases

H227 Combustible liquid.

H302 Harmful if swallowed.

H303 May be harmful if swallowed.

(Contd. on page 8)

EN-UN



# Safety Data Sheet

## according to UN-GHS

Date of issue: 20.11.2025

Version number 7.0

Revision: 01.11.2025

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

(Contd. of page 7)

H313 May be harmful in contact with skin.  
 H318 Causes serious eye damage.  
 H319 Causes serious eye irritation.  
 H360 May damage fertility or the unborn child.  
 H360D May damage the unborn child.

**Recommended restriction of use** For industrial or professional purposes only.

**Department issuing SDS:**

Hazardous Substances Management Aftermarket  
 ate.sicherheit@aumovio.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

Flammable liquids 4: Flammable liquids – Category 4

Acute Tox. 4: Acute toxicity – Category 4

Acute Tox. 5: Acute toxicity – Category 5

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

Serious eye damage/irritation – Category 2A: Serious eye damage/eye irritation – Category 2A

Repr. 1B: Reproductive toxicity – Category 1B

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

EN-UN