



# Safety Data Sheet

acc. to OSHA HCS

Date of issue: 11/25/2025

Version 9.0

Reviewed on 11/01/2025

## 1 Identification

### Product identifier

**Trade name:** Original ATE Brake Fluid TYP 200 (DOT 4)

### Other means of identification

**Article number:** 03.9901-62xx.x/7062xx

### 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:

#### Information department:

Hazardous Substances Management Aftermarket, Central Materials Laboratory

ate.sicherheit@aumovio.com

#### Emergency telephone number:

INFOTRAC

+1-352-323-3500 (International)

+1-800-535-5053 (North America)

## 2 Hazard(s) identification

### Classification of the substance or mixture

Reproductive toxicity 2 Suspected of damaging fertility or the unborn child.

### Label elements

#### GHS label elements

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

#### Hazard pictograms



**Signal word** Warning

#### Hazard-determining components of labeling:

Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate

#### Hazard statements

H361 Suspected of damaging fertility or the unborn child.

#### Precautionary statements

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P308+P313 IF exposed or concerned: Get medical advice/attention.

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P405 Store locked up.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**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:**

30989-05-0	Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate Reproductive toxicity 2	≥70-<90%
15520-05-5	2,2'-(Octylimino)bisethanol Eye damage 1; Acute toxicity - oral 4; Skin irritation 2	≥3-<5%
111-46-6	2,2'-oxybisethanol Acute toxicity - oral 4	≥1-<2.5%

**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:**

Take affected persons out of danger area and lay down.

Do not leave affected persons unattended.

Take off immediately all contaminated clothing.

**After inhalation:**

If inhaled: Remove person to fresh air and keep comfortable for breathing.

Seek medical treatment.

**After skin contact:**

If skin irritation occurs: Get medical advice/attention.

Immediately wash with water and soap and rinse thoroughly.

**After eye contact:**

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

Protect unharmed eye.

**After swallowing:**

Do NOT induce vomiting.

Rinse mouth thoroughly with water.

Call a doctor immediately.

**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.

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## 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

In case of fire, the following can be released:

Carbon monoxide (CO)

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

Boron oxides

Formation of toxic gases is possible during heating or in case of fire.

#### Advice for firefighters

##### Protective equipment:

Do not inhale explosion gases or combustion gases.

Wear self-contained respiratory protective device.

#### Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

## 6 Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Wear protective equipment. Keep unprotected persons away.

Keep away from ignition sources

#### 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 collected material according to regulations.

#### Protective Action Criteria for Chemicals

##### PAC-1:

112-35-6	2-(2-(2-methoxyethoxy)ethoxy)ethanol	34 mg/m <sup>3</sup>
111-46-6	2,2'-oxybisethanol	6.9 ppm

##### PAC-2:

112-35-6	2-(2-(2-methoxyethoxy)ethoxy)ethanol	370 mg/m <sup>3</sup>
111-46-6	2,2'-oxybisethanol	140 ppm

##### PAC-3:

112-35-6	2-(2-(2-methoxyethoxy)ethoxy)ethanol	2,200 mg/m <sup>3</sup>
111-46-6	2,2'-oxybisethanol	860 ppm

#### 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

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

**Information about protection against explosions and fires:**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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:**

This product is hygroscopic.

Store in dry conditions.

Keep receptacle tightly sealed.

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

## 8 Exposure controls/personal protection

**Control parameters**

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

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

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

WEEL	Long-term value: 10 mg/m <sup>3</sup>
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**Exposure controls**

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

**Personal protective equipment:**

**General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Pregnant women should strictly avoid inhalation or skin contact.

Use skin protection cream for skin protection.

**Breathing equipment:**

General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

filter ABEK-P2

**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

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### 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

**Body protection:** Protective work clothing

### 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

#### Physical state

Liquid

#### Color:

Yellow

#### Odor:

Characteristic

#### Odor threshold:

Not determined.

#### Melting point/Melting range:

&lt;-70 °C (&lt;-94 °F) (DIN 51583)

#### Boiling point/Boiling range:

&gt;280 °C (&gt;536 °F) (FMVSS 116)

#### Flammability:

Not applicable.

#### Explosion limits:

##### Lower:

Not determined.

##### Upper:

Not determined.

#### Flash point:

141 °C (285.8 °F) (ASTM D 7094 (closed cup))  
> 130 °C (ISO 2592)

#### Auto igniting:

&gt;200 °C (&gt;392 °F) (DIN 51794)

#### Decomposition temperature:

ca. 360 °C (ca. 680 °F) (Analogy)

#### pH-value at 20 °C (68 °F):

7-8 ((50 %) FMVSS 116)

#### Viscosity:

##### Kinematic at 20 °C (68 °F):

17-18 mm<sup>2</sup>/s (FMVSS 116)

##### Dynamic:

Not determined.

##### Water at 20 °C (68 °F):

350 g/l

##### Partition coefficient (n-octanol/water):

Not determined.

##### Vapor pressure at 20 °C (68 °F):

&lt;0.1 hPa

#### Vapor pressure:

##### Density at 20 °C (68 °F):

1.07-1.09 g/cm<sup>3</sup> (8.929-9.096 lbs/gal) (DIN 51757)

#### Relative density

Not determined.

#### Vapor density

Not determined.

#### Particle characteristics

Not applicable.

#### Other information

No further relevant information available.

#### Appearance:

##### Form:

Fluid

#### Important information on protection of health and environment, and on safety.

##### Ignition temperature:

Product is not selfigniting.

##### Danger of explosion:

Product does not present an explosion hazard.

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**Solvent content:**  
**VOC content:** 2.00 %  
**Change in condition**  
**Evaporation rate** Not determined.

## 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** Avoid heat, sparks, open flames and other ignition sources.

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

**Hazardous decomposition products:**

Carbon monoxide and carbon dioxide

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

Boron oxides

Hydrocarbons

## 11 Toxicological information

### Information on toxicological effects

#### Acute toxicity:

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

#### ATE (Acute Toxicity Estimate)

Oral	LD50	>5.000 mg/kg (Calculation method)
Dermal	LD50	>5.000 mg/kg (Calculation method)

#### 30989-05-0 Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate

Oral	LD50	>2,000 mg/kg (rat) (OECD 401)
Dermal	LD50	>2,000 mg/kg (rat) (OECD 402)

#### 15520-05-5 2,2'-(Octylimino)bisethanol

Oral	LD50	1,157 mg/kg (rat) (OECD 401)
Dermal	LD50	>2,000 mg/kg (rat) (OECD 402)

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

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

#### Primary irritant effect:

##### on the skin:

No irritant effect.

EPISKIN Human Skin Model Test (GLP)

##### on the eye:

No irritating effect.

OECD 437 Bovine cornea (GLP)

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

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

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

**Toxic to reproduction** Suspected of damaging fertility or the unborn child.

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**Specific target organ toxicity - single exposure**

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

**Specific target organ toxicity - repeated exposure**

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

**Aspiration hazard** Based on available data, the classification criteria are not met.**Additional toxicological information:****Carcinogenic categories****IARC (International Agency for Research on Cancer)**

None of the ingredients are listed.

**NTP (National Toxicology Program)**

None of the ingredients are listed.

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

None of the ingredients are listed.

## 12 Ecological information

**Toxicity****Aquatic toxicity:****30989-05-0 Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate**

EC50	>100 mg/l (algae) (72 h)
	>100 mg/l (daphnia) (48 h)
LC50	>100 mg/L (fish) (96 h)

**15520-05-5 2,2'-(Octylimino)bisethanol**

EC50 (static)	1.35 mg/l (algae) (OECD 201 72 h)
	>100 mg/l (bacteria) (OECD 209)
	19.1 mg/l (daphnia) (OECD 202 48 h)
LC50	22 mg/L (fish) (OECD 203 96 h)
ErC10 (static)	0.402 mg/L (algae) (OECD 201 72 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)

**Persistence and degradability** No further relevant information available.**Other information:** The product is easily biodegradable.**Bioaccumulative potential** No further relevant information available.**Mobility in soil** No further relevant information available.**Results of PBT and vPvB assessment** Not applicable.**PBT:** Not applicable.**vPvB:** Not applicable.**Other adverse effects****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.

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## 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:

After prior treatment product has to be disposed of in an incinerator for hazardous waste adhering to the regulations pertaining to the disposal of particularly hazardous waste.

### 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

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

Not applicable.

### Special precautions for user

Not applicable.

### UN "Model Regulation":

Void

## 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 are listed.

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

112-35-6 | 2-(2-(2-methoxyethoxy)ethoxy)ethanol

**TSCA (Toxic Substances Control Act):** All ingredients comply with TSCA requirements.

### Hazardous Air Pollutants

None of the ingredients are listed.

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## California Proposition 65

### Chemicals known to cause cancer:

None of the ingredients are listed.

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

None of the ingredients are listed.

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

None of the ingredients are listed.

### Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

### New Jersey Right-to-Know List:

None of the ingredients are listed.

### Pennsylvania Right-to-Know List:

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

## Cancerogenity categories

### EPA (Environmental Protection Agency)

None of the ingredients are listed.

### TLV (Threshold Limit Value)

None of the ingredients are listed.

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

None of the ingredients are listed.

## 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.

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

### Department issuing SDS:

Hazardous Substances Management Aftermarket  
ate.sicherheit@aumovio.com

**Date of previous version** 05/01/2023

**Version number of previous version:** 7.0

**Date of preparation** 11/25/2025

### 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

DOT: US Department of Transportation

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)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

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LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety &amp; Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Acute toxicity - oral 4: Acute toxicity – Category 4

Skin irritation 2: Skin corrosion/irritation – Category 2

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

Reproductive toxicity 2: Reproductive toxicity – Category 2

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

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