Safety Data Sheet
according to UN-GHS

Date of issue: 25.11.2025 Version number 9.0 Revision: 01.11.2025

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

Other means of identification

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

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

Further information obtainable from:
Hazardous Substances Management Aftermarket, Central Materials Laboratory
ate.sicherheit@aumovio.com
Emergency telephone number:
INFOTRAC
+1-352-323-3500 (International)

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2 Hazards identification

Classification of the substance or mixture
Repr. 2 H361 Suspected of damaging fertility or the unborn child.

Label elements
GHS label elements
The product is classified and labelled according to the Globally Harmonised System (GHS).
Hazard pictograms

GHS08

Signal word Warning

Hazard-determining components of labelling:
Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate
Hazard statements
H361 Suspected of damaging fertility or the unborn child.
Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
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.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

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Other hazards
Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

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3 Composition/Information on ingredients

Chemical characterisation: Mixtures
Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:		
30989-05-0	Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate Repr. 2, H361	≥70-<90%
15520-05-5	2,2´-(Octylimino)bisethanol Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Irrit. 2, H315; Acute Tox. 5, H313; Aquatic Chronic 3, H412	≥3-<5%
111-46-6	2,2'-oxybisethanol Acute Tox. 4, H302	≥1-<2.5%

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

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4 First aid measures

Description of first aid measures
General information:
Take affected persons out of danger area.
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.
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.

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5 Fire fighting measures

Extinguishing media
Suitable extinguishing agents:
CO2, 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
In case of fire, the following can be released:
Carbon monoxide (CO)
Nitrogen oxides (NOx)
Boron oxides
Formation of toxic gases is possible 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.

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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 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:
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.

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Further information about storage conditions:
This product is hygroscopic.
Store in dry conditions.
Keep container tightly sealed.
Specific end use(s) No further relevant information available.

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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/m³

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.
Pregnant women should strictly avoid inhalation or skin contact.
Use skin protection cream for skin protection.
Respiratory protection:
In the case of vapour formation use a respirator with an approved filter.
Equipment should conform to EN 14387.
If the occupational exposure limits cannot be met, in exceptional cases suitable respiratory equipment should be worn only for a short period of time.
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
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.

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9 Physical and chemical properties

Information on basic physical and chemical properties	
General Information	
Appearance:	
Form:	Fluid
Colour:	Yellow
Odour:	Characteristic
Odour threshold:	Not determined.
pH-value at 20 °C:	7-8 ((50 %) FMVSS 116)
Change in condition	
Melting point/freezing point:	<-70 °C (DIN 51583)
Initial boiling point and boiling range:	>280 °C (FMVSS 116)
Flash point:	141 °C (ASTM D 7094 (closed cup)) > 130 °C (ISO 2592)
Flammability	Not applicable.
Auto-ignition temperature:	>200 °C (DIN 51794)
Decomposition temperature:	ca. 360 °C (Analogy)
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure at 20 °C:	<0.1 hPa
Density at 20 °C:	1.07-1.09 g/cm³ (DIN 51757)
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
water at 20 °C:	350 g/l
Partition coefficient: n-octanol/water:	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic at 20 °C:	17-18 mm²/s (FMVSS 116)
Other information	No further relevant information available.
Particle characteristics	Not applicable.
Physical state	Liquid

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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.

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Incompatible materials: No further relevant information available.
Hazardous decomposition products:
Carbon monoxide and carbon dioxide
Nitrogen oxides (NOx)
Boron oxides
Hydrocarbons

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11 Toxicological information

Information on toxicological effects
Acute toxicity

LD/LC50 values relevant for classification:		
ATE (Acute Toxicity Estimates)		
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:
Skin corrosion/irritation
No irritant effect.
EPISKIN Human Skin Model Test (GLP)
Serious eye damage/irritation
No irritating effect.
OECD 437 Bovine cornea (GLP)
Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
Additional toxicological information:
CMR effects (carcinogenity, 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 Suspected of damaging fertility or the unborn child.
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.

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12 Ecological information

Toxicity

Aquatic toxicity:	
30989-05-0 Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate	
EC50	>100 mg/l (algae) (72 h)

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	>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.
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 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
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 packaging:
Recommendation:
Packagings that may not be cleansed are to be disposed of in the same manner as the product.

14 Transport information

UN-Number **ADR, ADN, IMDG, IATA**	Void
UN proper shipping name **ADR, ADN, IMDG, IATA**	Void

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Transport hazard class(es)	
ADR, ADN, IMDG, IATA **Class**	Void
Packing group **ADR, IMDG, IATA**	Void
Environmental hazards: **Marine pollutant:**	No
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

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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.

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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
H302 Harmful if swallowed.
H313 May be harmful in contact with skin.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H361 Suspected of damaging fertility or the unborn child.
H412 Harmful to aquatic life with long lasting effects.
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

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Acute Tox. 4: Acute toxicity – Category 4
Acute Tox. 5: Acute toxicity – Category 5
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Repr. 2: Reproductive toxicity – Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
*** Data compared to the previous version altered.**