



Safety Data Sheet

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

Printing date 02.04.2026

Version number 5.0

Revision: 01.11.2025

1 Identification of the hazardous chemical and of the supplier

Product identifier

Trade name: Original ATE Brake Fluid SUPER DOT 5.1

Article number: 03.9901-66xx.x/7066xx

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:

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:

Emergency number: Office Hours: 1-800-88-8099 / +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

INFOTRAC

+1-352-323-3500 (International)

+60 3-2706 0106 (Kuala Lumpur)

+60 154-600 0376 (National)

2 Hazard 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.

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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.
 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.

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:		
30989-05-0	Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate Repr. 2, H361	≥50-<70%
110-97-4	1,1'-Iminodipropan-2-ol Eye Irrit. 2, H319	≥1-≤2.5%
143-22-6	2-[2-(2-butoxyethoxy)ethoxy]ethanol Eye Dam. 1, H318	≥1-≤2.5%
	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Eye Dam. 1, H318	≥1-≤2.5%

Additional information:

The content of CAS No 143-22-6 is a component of Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy) ethanol and 3,6,9,12-tetraoxahexadecan-1-ol.

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.
 Do not leave affected persons unattended.
 Remove contaminated clothes and shoes immediately.

After inhalation:

IF INHALED: Remove victim to fresh air and keep at rest in a position 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.

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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.

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 (NO_x)

Boron oxides

During heating or in case of fire poisonous gases are produced.

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

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

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.

7 Handling and storage

Handling:

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

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Information about fire - and explosion protection:

Keep away from heat/sparks/open flames/hot surfaces – 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 container tightly sealed.

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.

Pregnant women should strictly avoid inhalation or skin contact.

Use skin protection cream for skin protection.

Respiratory protection:

If the occupational exposure limit is exceeded, a suitable respiratory protective device must be worn.

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

Eye protection: Safety glasses

Body protection: Protective work clothing

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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 (50 g/l) at 20 °C: 9 (ASTM D 1287)

Change in condition

Melting point/freezing point	-68 °C (DIN51583)
Initial boiling point and boiling range	270 °C (ASTM D 1120)

Flash point: 130 °C (DIN EN22719/ISO2719)
(closed cup)

Flammability: Not applicable

Decomposition temperature: >450 °C (DSC)

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: 0.27 Pa

Density at 20 °C:	1.06 g/cm ³ (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:

Dynamic:	Not determined
Kinematic at 20 °C:	12.6 mm ² /s (DIN 51562)

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.

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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_x)

Boron oxides

Hydrocarbons

11 Toxicological information

Information on toxicological effects

Acute toxicity

LD/LC50 values relevant for classification:

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)

110-97-4 1,1'-Iminodipropan-2-ol

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

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

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

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

Dermal LD50 >2,000 mg/kg (rabbit)

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)

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 Suspected of damaging fertility or the unborn child.

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:

EC50 >100 mg/l (bacteria) (OECD 209)

LC50 >100 mg/L (fish) (DIN 38412 96 h)

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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)

110-97-4 1,1'-Iminodipropan-2-ol

EC50 (static)	>100 mg/l (algae) (72 h) >100 mg/l (daphnia) (92/69/EWG 48 h)
LC50 (static)	>100 mg/L (fish) (OECD 203 96 h)

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

EC50	>100 mg/l (algae)
LC50	>100 mg/L (daphnia) >100 mg/L (fish)

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)

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:** Do not allow product 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

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 Transportation information

UN-Number ADR, IMDG, IATA	Void
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UN proper shipping name ADR, 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:

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
EHS reference list

110-97-4 | 1,1'-Iminodipropan-2-ol

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
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

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

Eye Irrit. 2: Serious eye damage or eye irritation – Category 2

Repr. 2: Reproductive toxicity – Category 2

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