

1 Identification

Product identifier

Trade name: Original ATE Brake Fluid SL (DOT 4)

Other means of identification

Article number: 03.9901-58xx.x / 7058xx

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:

Continental Aftermarket & Services GmbH

Sodener Straße 9

D-65824 Schwalbach am Taunus

Tel: +49-6196-87-0

Information department:

Gefahrstoffmanagement Aftermarket, Zentrales Materiallabor

ate.sicherheit@contiautomotive.com

Emergency telephone number: +49-6132-84463 (24 h) 190 languages spoken

2 Hazard(s) identification

Classification of the substance or mixture



Health hazard

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 GHS08

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.

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.

(Contd. on page 2)



Date of issue: 03/24/2025

Version 11

Reviewed on 04/01/2023

Trade name: Original ATE Brake Fluid SL (DOT 4)

(Contd. of page 1)

Dangerous components:		
30989-05-0	Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate	≥30-<50%
	Reproductive toxicity 2	
	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol	≥10-<20%
	Eye damage 1	
	Specific concentration limits: Eye Dam. 1; H318: C ≥ 30 % Eye Irrit. 2; H319: 20 % ≤ C < 30 %	
111-46-6	2,2'-oxybisethanol	<10%
	Acute toxicity - oral 4	
110-97-4	1,1'-iminodipropan-2-ol	<2%
	Eye irritation 2A	

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.

Get medical advice/attention if you feel unwell.

After inhalation: Supply fresh air; consult doctor in case of complaints.

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

After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing: 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.

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 fighting measures that suit the environment.

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, CO₂, NO_x

Advice for firefighters

Protective equipment:

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

Additional information

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

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.

(Contd. on page 3)



Safety Data Sheet

acc. to OSHA HCS

Date of issue: 03/24/2025

Version 11

Reviewed on 04/01/2023

Trade name: Original ATE Brake Fluid SL (DOT 4)

(Contd. of page 2)

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:**

111-46-6	2,2'-oxybisethanol	6.9 ppm
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PAC-2:

111-46-6	2,2'-oxybisethanol	140 ppm
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PAC-3:

111-46-6	2,2'-oxybisethanol	860 ppm
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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

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

Information about protection against explosions and fires: 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 foodstuffs.

Store away from flammable substances.

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:

111-46-6 2,2'-oxybisethanol

WEEL	Long-term value: 10 mg/m ³
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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.

Use skin protection cream for skin protection.

Breathing equipment:

Respiratory protection required in case of release of vapors / aerosols.

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.

(Contd. on page 4)



Safety Data Sheet

acc. to OSHA HCS

Date of issue: 03/24/2025

Version 11

Reviewed on 04/01/2023

Trade name: Original ATE Brake Fluid SL (DOT 4)

(Contd. of page 3)

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.

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:

<-70 °C (<-94 °F) (DIN 51583)

Boiling point/Boiling range:

>260 °C (>500 °F) (FMVSS 116)

Flammability:

Not applicable.

Explosion limits:

Lower:

1.5 Vol %

Upper:

Not determined.

Flash point:

139 °C (282.2 °F) (ASTM D 7094 (closed cup))

Auto igniting:

>200 °C (>392 °F) (DIN 51794)

Decomposition temperature:

ca. 360 °C (ca. 680 °F) (DSC)

pH-value at 20 °C (68 °F):

8.5 (50%) (FMVSS 116)

Viscosity:

Kinematic at 20 °C (68 °F):

15-17 mm²/s (FMVSS 116)

Dynamic:

Not determined.

Water:

Fully miscible.

Partition coefficient (n-octanol/water):

Not determined.

Vapor pressure at 20 °C (68 °F):

<1 hPa (<0.8 mm Hg)

Vapor pressure:

Density at 20 °C (68 °F):

1.06 g/cm³ (8.846 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.

Solvent content:

VOC content:

8.00 %

(Contd. on page 5)

US



Safety Data Sheet

acc. to OSHA HCS

Date of issue: 03/24/2025

Version 11

Reviewed on 04/01/2023

Trade name: Original ATE Brake Fluid SL (DOT 4)

(Contd. of page 4)

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 No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products:

Carbon monoxide and carbon dioxide

Nitrogen oxides (NOx)

11 Toxicological information

Information on toxicological effects

Acute toxicity:

LD/LC50 values that are relevant for classification:

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

Oral	LD50	>2,000 mg/kg (rat) (OECD 401)
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Dermal	LD50	>2,000 mg/kg (rat) (OECD 402)
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111-46-6 2,2'-oxybisethanol

Oral	LD50	>5,000 mg/kg (rat)
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Dermal	LD50	>5,000 mg/kg (rabbit)
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110-97-4 1,1'-iminodipropen-2-ol

Oral	LD50	>2,000 mg/kg (rat) (OECD 401)
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Dermal	LD50	8,000 mg/kg (rabbit)
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Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol

Oral	LD50	>5,000 mg/kg (rat)
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Dermal	LD50	>3,000 mg/kg (rabbit)
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Primary irritant effect:

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

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

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

Germ cell mutagenicity

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

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.

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.

(Contd. on page 6)

US



Date of issue: 03/24/2025

Version 11

Reviewed on 04/01/2023

Trade name: Original ATE Brake Fluid SL (DOT 4)

(Contd. of page 5)

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:

EC50	6.25 mg/l (bacteria)
	250-350 mg/l (fish) (DIN 38412 96 h)

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)

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)

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)

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.

Bioaccumulative potential No further relevant information available.

Mobility in soil No further relevant information available.

Results of PBT and vPvB assessment

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 undiluted product or large quantities of it to reach ground water, water course or sewage system.

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.

(Contd. on page 7)



Safety Data Sheet

acc. to OSHA HCS

Date of issue: 03/24/2025

Version 11

Reviewed on 04/01/2023

Trade name: Original ATE Brake Fluid SL (DOT 4)

(Contd. of page 6)

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, IMDG, IATA

Void

UN proper shipping name

DOT, ADR, IMDG, IATA

Void

Transport hazard class(es)

DOT, ADR, IMDG, IATA

Class

Void

Packing group

DOT, ADR, IMDG, IATA

Void

Environmental hazards:

Not applicable.

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.

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

None of the ingredients are listed.

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.

Carcinogenicity categories**EPA (Environmental Protection Agency)**

None of the ingredients are listed.

TLV (Threshold Limit Value)

None of the ingredients are listed.

(Contd. on page 8)



Safety Data Sheet

acc. to OSHA HCS

Date of issue: 03/24/2025

Version 11

Reviewed on 04/01/2023

Trade name: Original ATE Brake Fluid SL (DOT 4)

(Contd. of page 7)

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.

Recommended restriction of use For industrial or professional purposes only.

Department issuing SDS:

Gefahrstoffmanagement Aftermarket

ate.sicherheit@contiautomotive.com

Date of previous version 12/01/2022

Version number of previous version: 10

Date of preparation 03/24/2025

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

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 & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Acute toxicity - oral 4: Acute toxicity – Category 4

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

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

Reproductive toxicity 2: Reproductive toxicity – Category 2

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
<https://www.epa.gov/tsca-inventory>
<https://www.cdc.gov/niosh/index.htm>
<https://www.osha.gov/>
<http://www.iarc.fr/>
*** Data compared to the previous version altered.**