

Safety Data Sheet

according to GHS Regulations

Printing date 2020/08/31

Version number 8

Revision: 2020/04/01

Hazardous according to criteria of Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

SECTION 1: Identification

1.1 Product identifier

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

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

1.2 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

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Continental Aftermarket & Services GmbH
 Sodener Straße 9
 D-65824 Schwalbach am Taunus
 Germany
 Tel: +49-69-7603-11
 Fax: +49-69-761061

Importer:

hsy Autoparts Pty. Ltd.
 22/107-113 Heatherdale Road
 Ringwood VIC 3134
 Australia
 Telephone: +61 1300 133 129

Further information obtainable from:

Gefahrstoffmanagement Konzern, Zentrales Materiallabor
 ate.sicherheit@contiautomotive.com

1.4 Emergency telephone number:

Emergency telephone number: NSW Poisons Information Hotline: 13 11 26

SECTION 2: Hazard(s) Identification

2.1 Classification of the substance or mixture

Classification according to Australia's Work Health and Safety Regulations 2011 (GHS)



health hazard

Suspected of damaging the unborn child.

2.2 Label elements

Labelling according to GHS.

This product is classified and labelled as a hazardous chemical according to GHS.

Hazard pictograms GHS08

Signal word Warning

Hazard-determining components of labelling:

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

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Hazard statements

H361d Suspected of damaging 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 label before use.
 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.

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

vPvB: Not applicable.

SECTION 3: Composition and Information on Ingredients

3.2 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	≥30-<50%
	Repr. 2	
143-22-6	2-[2-(2-butoxyethoxy)ethoxy]ethanol	≥10-<20%
	Eye Dam. 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 Tox. 4	
110-97-4	1,1'-iminodipropan-2-ol	<2%
	Eye Irrit. 2A	

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

SECTION 4: First Aid Measures

4.1 Description of first aid measures
General information: Remove contaminated clothes and shoes immediately.

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.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

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4.3 Indication of any immediate medical attention and special treatment needed
No further relevant information available.

SECTION 5: Fire Fighting Measures

5.1 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

5.2 Special hazards arising from the substance or mixture

May be released in case of fire: CO, CO₂, NO_x.

5.3 Advice for firefighters

Protective equipment:

Wear self-contained respiratory protective device.
Do not inhale explosion gases or combustion gases.

Additional information Hazchem Code: -

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation

6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.
Do not allow to penetrate the ground/soil.

6.3 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.

6.4 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.

SECTION 7: Handling and Storage

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

Information about fire - and explosion protection: No special measures required.

7.2 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.

Further information about storage conditions:

This product is hygroscopic.
Store in dry conditions.
Keep container tightly sealed.

Storage class according to TRGS 510: 10 combustible liquids.

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

SECTION 8: Exposure controls and personal protection

Additional information about design of technical facilities: No further data; see item 7.

8.1 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 ³
WES (Australia)	Long-term value: 100 mg/m ³ , 23 ppm

8.2 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.

Respiratory protection:

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

Use particulate filter with medium retention capacity for solid and liquid particles (eg EN 143 or 149, type P2 or FFP2).

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 through 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.

Risk management measures

Use at industrial site in closed process with occasional controlled exposure or processes with equivalent containment conditions:

1 to 3 air changes per hour (90 % effectiveness) - basic standard of general ventilation

maximum 8 h exposure duration per day

maximum 40 °C process temperature

Use of functional fluids in small devices:

5 to 10 air changes per hour (70 % effectiveness) - good standard of controlled ventilation

maximum 8 h exposure duration per day

maximum 40 °C process temperature

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SECTION 9: Physical and Chemical Properties

9.1 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: 8.5

Change in condition

Melting point/freezing point:	<-70 °C
Initial boiling point and boiling range:	>260 °C

Flash point: >125 °C

Flammability (solid, gas): Not applicable.

Ignition temperature: 210 °C

Decomposition temperature: Not determined.

Auto-ignition temperature: Product is not selfigniting.

Explosive properties: Product does not present an explosion hazard.

Explosion limits:

Lower:	Not determined.
Upper:	1.5 Vol %

Vapour pressure at 20 °C: 1.3 hPa

Density at 20 °C:	1.065 g/cm ³
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:	16 mm ² /s

Solvent content:

Organic solvents: 8.0 %

Solids content: 1.5 %

9.2 Other information No further relevant information available.

SECTION 10: Stability and Reactivity

10.1 Reactivity No further relevant information available.

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10.2 Chemical stability**Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions No dangerous reactions known.**10.4 Conditions to avoid** No further relevant information available.**10.5 Incompatible materials:** Strong oxidizing agents**10.6 Hazardous decomposition products:**

Carbon monoxide and carbon dioxide

Nitrogen oxides (NO_x)

SECTION 11: Toxicological Information

11.1 Information on toxicological effects**Acute toxicity** Based on available data, the classification criteria are not met.**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)

111-46-6 2,2'-oxybisethanol

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

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

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

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

Dermal LD50 8,000 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)

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.**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 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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SECTION 12: Ecological Information

12.1 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)
143-22-6 2-[2-(2-butoxyethoxy)ethoxy]ethanol	
EC50	>100 mg/l (Algae)
LC50	>100 mg/L (daphnia) >100 mg/L (fish)

12.2 Persistence and degradability No further relevant information available.

Other information: The product is easily biodegradable.

12.3 Bioaccumulative potential No further relevant information available.

12.4 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.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

13.1 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.

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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.

SECTION 14: Transport information

14.1 UN-Number
ADG, IMDG, IATA

Void

14.2 UN proper shipping name
ADG, IMDG, IATA

Void

14.3 Transport hazard class(es)
ADG, IMDG, IATA
Class

Void

14.4 Packing group
ADG, IMDG, IATA

Void

14.5 Environmental hazards:

Not applicable.

14.6 Special precautions for user

Not applicable.

14.7 Transport in bulk according to Annex II of
Marpol and the IBC Code

Not applicable.

UN "Model Regulation":

Void

SECTION 15: Regulatory information

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

Australian Inventory of Industrial Chemicals

All ingredients are listed.

Standard for the Uniform Scheduling of Medicines and Poisons

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

S5, S6, S10

Australia: Priority Existing Chemicals

None of the ingredients are listed.

National regulations:**Information about limitation of use:**

Employment restrictions concerning pregnant and lactating women must be observed.

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Other regulations, limitations and prohibitive regulations

Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients are listed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 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 Konzern
ate.sicherheit@contiautomotive.com

Abbreviations and acronyms:

ADG: Australien Code for the Transport of Dangerous Goods by Road and Rail
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
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
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Acute Tox. 4: Acute toxicity - oral – Category 4
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
Repr. 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
<http://www.safeworkaustralia.gov.au/>

* Data compared to the previous version altered.