Safety Data Sheet acc. to OSHA HCS

Printing date 04/30/2020

Version 9

Reviewed on 04/01/2020

1 Identification

Product identifier

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

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: +49-69-7603-11 Fax: +49-69-761061

Information department:

Gefahrstoffmanagement Konzern, 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

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.
- Do not handle until all safety precautions have been read and understood. P202
- Wear protective gloves/protective clothing/eye protection/face protection. P280
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- Store locked up. P405
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification system:

NFPA ratings (scale 0 - 4)



Fire = 1Reactivity = 0

(Contd. on page 2)

US



Safety Data Sheet acc. to OSHA HCS

Printing date 04/30/2020

Version 9

Reviewed on 04/01/2020

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

(Contd. of page 1)

HMIS-ratings (scale 0 - 4)



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.

30989-05-0	Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate	≥30-<50%
	Repr. 2	
	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12- tetraoxahexadecan-1-ol	≥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	

4 First-aid measures

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.

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 fighting measures that suit the environment.

For safety reasons unsuitable extinguishing agents: Water with full jet

(Contd. on page 3)

Safety Data Sheet acc. to OSHA HCS

Version 9

Reviewed on 04/01/2020



Printing date 04/30/2020

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

Special hazards arising from the substance or mixture May be released in case of fire: CO, CO2, NOx. Advice for firefighters Protective equipment: Wear self-contained respiratory protective device. Do not inhale explosion gases or combustion gases.	(Contd. of page 2)
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. 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. Reference to other sections See Section 7 for information on safe handling. See Section 13 for disposal information. Protective Action Criteria for Chemicals 	
PAC-1: 111-46-6 2,2'-oxybisethanol	6.9 ppm
PAC-2:	
111-46-6 2,2'-oxybisethanol	140 ppm
PAC-3:	
111-46-6 2,2'-oxybisethanol	860 ppm

7 Handling and storage

Handling:

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: Not required. Store away from foodstuffs. Further information about storage conditions: This product is hygroscopic. Store in dry conditions. Keep receptacle tightly sealed. Storage class according to TRGS 510: 10 combustible liquids. Specific end use(s) No further relevant information available.

(Contd. on page 4)

US

Ate.

Safety Data Sheet acc. to OSHA HCS

Version 9

Reviewed on 04/01/2020

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

(Contd. of page 3)

8 Exposure controls/personal protection

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

Control parameters

Printing date 04/30/2020

Components with limit values that require monitoring at the workplace:

111-46-6 2,2'-oxybisethanol

WEEL Long-term value: 10 mg/m³

Additional information:

Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product.

Exposure controls

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.

Breathing equipment:

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 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.

Information on basic physical a General Information Appearance:	nd chemical properties	
Form:	Fluid	
Color:	Yellow	
Odor:	Characteristic	
Odor threshold:	Not determined.	
pH-value at 20 °C (68 °F):	8.5	
		(Contd. on page



Printing date 04/30/2020

Safety Data Sheet acc. to OSHA HCS

Version 9

Reviewed on 04/01/2020

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

	(Contd. of pag
Change in condition Melting point/Melting range: Boiling point/Boiling range:	<-70 °C (<-94 °F) >260 °C (>500 °F)
Flash point:	>125 °C (>257 °F)
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	210 °C (410 °F)
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits: Lower: Upper:	Not determined. 1.5 Vol %
Vapor pressure at 20 °C (68 °F):	1.3 hPa (1 mm Hg)
Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate Water:	1.065 g/cm³ (8.887 lbs/gal) Not determined. Not determined. Not determined. Fully miscible.
Partition coefficient (n-octanol/water): Not determined.
Viscosity: Dynamic: Kinematic at 20 °C (68 °F):	Not determined. 16 mm²/s
Solvent content: Organic solvents: VOC content:	8.0 % 8.00 %
Solids content: Other information	1.5 % 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. Conditions to avoid No further relevant information available. Incompatible materials: Strong oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides (NOx)

(Contd. on page 6)

US



*

Printing date 04/30/2020

Safety Data Sheet acc. to OSHA HCS

Version 9

Reviewed on 04/01/2020

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

(Contd. of page 5)

Toxico	logical information	
Informa	tion on toxicological effects	
Acute t		
LD/LC5	0 values that are relevant for classification:	
	5-0 Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate	
Oral LD50 >2,000 mg/kg (rat) (OECD 401)		
	LD50 >2,000 mg/kg (rat) (OECD 402)	
	n mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol	
Oral	LD50 >5,000 mg/kg (rat)	
	LD50 >3,000 mg/kg (rabbit)	
	6 2,2'-oxybisethanol	
Oral	LD50 >5,000 mg/kg (rat)	
	LD50 >5,000 mg/kg (rabbit)	
	4 1,1'-iminodipropan-2-ol	
Oral	LD50 >2,000 mg/kg (rat) (OECD 401)	
	LD50 8,000 mg/kg (rabbit)	
	y irritant effect: skin: No irritant effect.	
	eye: No irritating effect.	
Sensitization: No sensitizing effects known.		
Additional toxicological information:		
Carcino	ogenic categories	
	nternational Agency for Research on Cancer)	
•	the ingredients are listed.	
NTP (N	ational Toxicology Program)	
None of	the ingredients are listed.	
OSHA-0	Ca (Occupational Safety & Health Administration)	
None of	the ingredients are listed.	
	o reproduction	
Some e	vidence of adverse effects on development, based on animal experiments.	
Ecolor	ical information	
Toxicity		
-	toxicity:	
EC50	6.25 mg/l (bacteria)	
	250-350 mg/l (fish) (DIN 38412 96 h)	

	250-350 mg/l (fish) (DIN 38412 96 h)			
30989-05-0	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)			
Reaction I	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol			
EC50	>100 mg/l (Algae)			

(Contd. on page 7)

⁻US



Printing date 04/30/2020

Safety Data Sheet acc. to OSHA HCS

Version 9

Reviewed on 04/01/2020

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

	(Contd. of pag
LC50	>100 mg/L (daphnia)
	>100 mg/L (fish) (DIN 38412 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)
Other inform Behavior in 6 Bioaccumula Mobility in s Additional ef General note Water hazard Do not allow system.	l class 1 (Self-assessment): slightly hazardous for water undiluted product or large quantities of it to reach ground water, water course or sewage
	BT and vPvB assessment
PBT: Not app vPvB: Not app	
νενο. Νοι αμ	ירוילאופ.

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.

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	



Printing date 04/30/2020

Safety Data Sheet acc. to OSHA HCS

Version 9

Reviewed on 04/01/2020

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

		(Contd. of page 7)
Packing group DOT, ADR, IMDG, IATA	Void	
Environmental hazards:	Not applicable.	
Special precautions for user		
· ·	Not applicable.	
Transport in bulk according to Anno MARPOL73/78 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 Sara

Section 355 (extremely hazardous substances):

None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):

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.

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.

Cancerogenity categories

EPA (Environmental Protection Agency)

None of the ingredients are listed.

TLV (Threshold Limit Value established by ACGIH)

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.

(Contd. on page 9)



Safety Data Sheet acc. to OSHA HCS

Version 9

Reviewed on 04/01/2020

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

(Contd. of page 8)

US

16 Other information

Printing date 04/30/2020

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 Date of preparation / last revision 04/30/2020 / 8 Abbreviations and acronyms: ADR: Accord européen sur le transport 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 ACGIH: American Conference of Governmental Industrial Hygienists 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) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) 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 Tox. 4: Acute toxicity - 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 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.