Printing date 05/12/2020

Version 5

Reviewed on 04/01/2020

1 Identification

Product identifier

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: 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

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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.

Dangerous components:		
30989-05-0	Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate	≥70-<90%
	Repr. 2	
15520-05-5	2,2'-(Octylimino)bisethanol	≥3-<10%
	Eye Dam. 1; Acute Tox. 4; Skin Irrit. 2	
111-46-6	2,2'-oxybisethanol	<5%
	Acute Tox. 4	

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.

After Swallowing: Call a doctor in

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

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.

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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 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 8 for information on personal protection equipment. 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: 860 ppm

111-46-6 2,2'-oxybisethanol

7 Handling and storage

Handling:

Precautions for safe handling Ensure good ventilation/exhaustion at the workplace. Information about protection against explosions and fires: Protect against electrostatic charges.

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 receptacle tightly sealed.

Storage class according to TRGS 510: 10 combustible liquids.

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

8 Exposure controls/personal protection

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

Control parameters

Components with limit values that require monitoring at the workplace:

The following constituent is the only constituent of the product which has a PEL. TLV or other recommended exposure limit.

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A 1	11-46-6 2,2'-oxybisethanol
	VEEL Long-term value: 10 mg/m ³
Ρ	Additional information: Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors of nists generated from the handling of this product.
P G T	Exposure controls Personal protective equipment: Seneral protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed.
A	Do not inhale gases / fumes / aerosols. Avoid contact with the eyes and skin. Breathing equipment:
F L P	Respiratory protection required in case of release of vapors / aerosols. Jse particulate filter with medium retention capacity for solid and liquid particles (eg EN 143 or 149, typ 22 or FFP2).
T S	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 legradation
Т	Naterial of gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of Juality and varies from manufacturer to manufacturer.
В	Penetration time of glove material Butyl caoutchouc (butyl rubber): minimum breakthrough time 480 min; minimum layer thickness: 0.7
N	nm IBR (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 t be observed.
B	Eye protection: Safety glasses Body protection: Protective work clothing .imitation and supervision of exposure into the environment
	See section 6 and 7. No additional measures necessary.

Information on basic physical and chemical properties General Information		
Appearance:		
Form:	Fluid	
Color:	Yellow	
Odor:	Characteristic	
Odor threshold:	Not determined.	
pH-value at 20 °C (68 °F):	7-8 (FMVSS 116)	
Change in condition		
Melting point/Melting range:	<-70 °C (<-94 °F) (DIN 51583)	
Boiling point/Boiling range:	>280 °C (>536 °F) (FMVSS 116)	
Flash point:	141 °C (285.8 °F) (ISO 2592 (open cup))	
Flammability (solid, gaseous):	Not applicable.	

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Ignition temperature:	>200 °C (>392 °F) (DIN 51794)
Decomposition temperature:	360 °C (680 °F) (Analogy)
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapor pressure at 20 °C (68 °F):	<0.1 hPa (<0.1 mm Hg)
Density at 20 °C (68 °F):	1.08 g/cm³ (9.013 lbs/gal) (DIN 51757)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Water at 20 °C (68 °F):	350 g/l
Partition coefficient (n-octanol/wa	ter): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic at 20 °C (68 °F):	17.5 mm²/s
Solvent content:	
Organic solvents:	2.0 %
VOC content:	2.01 %
Solids content:	0.0 %
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. 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)

Dermal LD50 >2,000 mg/kg (rat) (OECD 402)

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15520-0	-05-5 2,2´-(Octylimino)bisethanol	<u> </u>	
Oral	LD50 1,157 mg/kg (rat) (OECD 401)		
Dermal	I LD50 >2,000 mg/kg (rat) (OECD 402)		
111-46-	5-6 2,2'-oxybisethanol		
Oral	LD50 >5,000 mg/kg (rat)		
Dermal	l LD50 >5,000 mg/kg (rabbit)		
Primary	ry irritant effect:		
on the s	skin: No irritant effect.		
on the e	eye: No irritating effect.		
Sensitiz	ization: No sensitizing effects known.		
	onal toxicological information:		
Carcino	ogenic categories		
IARC (Ir	International Agency for Research on Cancer)		
None of	of the ingredients are listed.		
NTP (Na	NTP (National Toxicology Program)		
None of	None of the ingredients are listed.		
OSHA-C	OSHA-Ca (Occupational Safety & Health Administration)		
None of	of the ingredients are listed.		
Toxic to	to reproduction		

12 Ecological information

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Toxic	Ity

Aqua	ic toxicity:	
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)	
15520	-05-5 2,2´-(Octylimino)bisethanol	
EC50	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)	
111-4	6-6 2,2'-oxybisethanol	
EC50	>100 mg/l (Algae)	
	>100 mg/l (daphnia) (DIN 38412 T.11)	
LC50	>100 mg/L (fish) (96 h)	
Other Beha Bioac	stence and degradability No further relevant information available. information: The product is easily biodegradable. vior in environmental systems: cumulative potential No further relevant information available. ity in soil No further relevant information available.	(Contd. on page 7)

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Additional ecological information:

General notes:

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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.

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 packagings:

Recommendation:

Packagings that cannot be cleansed are to be disposed of in the same manner as the product.

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14 Transport Information	
UN-Number DOT, ADR, IMDG, IATA ADN	UN- Void
UN proper shipping name DOT, ADR, ADN, IMDG, IATA	Void
Transport hazard class(es)	
DOT, ADR, ADN, IMDG, IATA Class	Void
Packing group DOT, ADR, IMDG, IATA	Void
Environmental hazards: Marine pollutant:	No
Special precautions for user	Not applicable.
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.
UN "Model Regulation":	Void

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15 Regulatory information

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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.

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 Date of preparation / last revision 05/12/2020 / 4 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

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	FA: International Air Transport Association	
	GH: American Conference of Governmental Industrial Hygienists	
	NECS: European Inventory of Existing Commercial Chemical Substances	
	INCS: European List of Notified Chemical Substances	
	S: Chemical Abstracts Service (division of the American Chemical Society)	
	PA: National Fire Protection Association (USA) IIS: Hazardous Materials Identification System (USA)	
	DC: Volatile Organic Compounds (USA, EU)	
	50: Lethal concentration, 50 percent	
	50: Lethal dose, 50 percent	
	T: Persistent, Bioaccumulative and Toxic	
vP	vB: very Persistent and very Bioaccumulative	
	OSH: National Institute for Occupational Safety	
	SHA: Occupational Safety & Health	
	V: Threshold Limit Value	
	L: Permissible Exposure Limit	
	L: Recommended Exposure Limit	
	ute Tox. 4: Acute toxicity – Category 4 in Irrit. 2: Skin corrosion/irritation – Category 2	
	e Dam. 1: Serious eve damage/eve irritation – Category 1	
	pr. 2: Reproductive toxicity – Category 2	
	Durces	
	tp://echa.europa.eu/information-on-chemicals/cl-inventory	
	p://echa.europa.eu/web/guest/information-on-chemicals/registered-substances	
	p://www.reach-clp-biozid-helpdesk.de/de/Downloads/CLP-VO/CLP_VO_Anhang_VI_T	abelle_3_2.pdf
	tps://www.epa.gov/tsca-inventory	
htt	tps://www.cdc.gov/niosh/index.htm	
htt	tps://www.osha.gov/	
	p://www.iarc.fr/	
	Data compared to the previous version altered.	
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