

Printing date 11.05.2020 Version number 5 Revision: 01.04.2020

1 Identification of the hazardous chemical and of the supplier

Product identifier

Trade name: Original ATE Brake Fluid TYP 200 (DOT 4)

Article number: 03.9901-62xx.x / 7062xx

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:

Continental Aftermarket & Services GmbH

Sodener Straße 9

D-65824 Schwalbach am Taunus

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

Further information obtainable from:

Gefahrstoffmanagement Konzern, Zentrales Materiallabor

ate.sicherheit@contiautomotive.com

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

2 Hazard identification

Classification of the substance or mixture



health hazard

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.

Precautionary statements

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P281 Use personal protective equipment as required.

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.

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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	≥70-<90%
	Repr. 2, H361	
15520-05-5	2,2´-(Octylimino)bisethanol	≥3-<10%
	Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Irrit. 2, H315; Aquatic Chronic 3, H412	
111-46-6	2,2'-oxybisethanol	<5%
	Acute Tox. 4, H302	
68442-68-2	Benzenamine, N-phenyl-, styrenated	≥0.1-<0.25%
	Aquatic Acute 1, H400; Aquatic Chronic 1, H410	

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.

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

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

After eve 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 extinguishing methods suitable to surrounding conditions.

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.

Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

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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 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.

Information about fire - and explosion protection: 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 container tightly sealed.

Storage class according to TRGS 510: 10 combustible liquids.

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 item 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.

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).

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Protection of hands:

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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

NBR (nitrile rubber): minimum breakthrough time 30 min; minimum laver 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.

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

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 at 20 °C:	7-8 (FMVSS 116)	
Change in condition Melting point/freezing point Initial boiling point and boiling range	<-70 °C (DIN 51583) >> > > > > > > > > > > > > > > > > > >	
Flash point:	141 °C (ISO 2592 (open cup))	
Flammability (solid, gas)	Not applicable.	
Ignition temperature:	>200 °C (DIN 51794)	
Decomposition temperature:	360 °C (Analogy)	
Auto-ignition temperature	Product is not selfigniting.	
Explosive properties:	Product does not present an explosion hazard.	

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Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapour pressure at 20 °C:	<0.1 hPa	
Density at 20 °C:	1.08 g/cm³ (DIN 51757)	
Relative density	Not determined.	
Vapour density	Not determined.	
Evaporation rate	Not determined.	
water at 20 °C:	350 g/l	
Partition coefficient: n-octanol/water	Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic at 20 °C:	17.5 mm ² /s	
Solvent content:		
Organic solvents:	2.0 %	
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/LC5	LD/LC50 values relevant for classification:		
30989-0	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)	
15520-05-5 2,2´-(Octylimino)bisethanol			
Oral	LD50	1,157 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)	
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Safety Data Sheet according to P.U.(A) 310/2013

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68442-68-2 Benzenamine, N-phenyl-, styrenated

Oral | LD50 | >20,000 mg/kg (rat)

Dermal LD50 >10,000 mg/kg (rabbit)

Primary irritant effect:

Skin corrosion or irritation No irritant effect.

Serious eye damage or eye irritation No irritating effect.

Respiratory / skin sensitization No sensitising effects known.

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Repr. 2

Reproductive toxicity

Some evidence of adverse effects on development, based on animal experiments.

12 Ecological information

Toxicity

Aquati	Aquatic toxicity:		
30989-	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-	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)		
111-46	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)		
68442-	68442-68-2 Benzenamine, N-phenyl-, styrenated		
EC50	920 mg/l (fish)		
NOEC	0.02 mg/L (daphnia) (OECD 211 21 d)		

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:

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.

Results of PBT and vPvB assessment Not applicable.

PBT: Not applicable. **vPvB:** Not applicable.

Other adverse effects No further relevant information available.



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

15 Regulatory information

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

EHS reference list

111-46-6 2,2'-oxybisethanol

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.

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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:

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

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 Acute Tox. 4: Acute toxicity - oral – Category 4 Skin Irrit. 2: Skin corrosion or irritation – Category 2

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

Repr. 2: Reproductive toxicity - Category 2

Aquatic Acute 1: Hazardous to the aquatic environment - acute hazard - Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - chronic hazard - Category 1 Aquatic Chronic 3: Hazardous to the aquatic environment - chronic hazard - Category 3

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.

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