



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 15.05.2020

Version number 1

Revision: 01.05.2020

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: Original ATE Brake Fluid SUPER DOT 5.1

Article number: 03.9901-66xx.x/7066xx

UFI: 6C00-60K6-500P-G4K8

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

Tel: +49-69-7603-11

Fax: +49-69-761061

Further information obtainable from:

Gefahrstoffmanagement Konzern, Zentrales Materiallabor

ate.sicherheit@contiautomotive.com

1.4 Emergency telephone number: NHS 111

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS08 health hazard

Repr. 2 H361d Suspected of damaging the unborn child.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified according to the CLP regulation.

Hazard pictograms GHS08

Signal word Warning

Hazard-determining components of labelling:

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

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.

(Contd. on page 2)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 15.05.2020

Version number 1

Revision: 01.05.2020

Trade name: Original ATE Brake Fluid SUPER DOT 5.1

vPvB: Not applicable.

(Contd. of page 1)

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

CAS: 30989-05-0 EINECS: 250-418-4 Reg.nr.: 01-2119462824-33-XXXX	Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate Repr. 2, H361d	<70%
EC number: 907-996-4 Reg.nr.: 01-2119531322-53-XXXX	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Eye Dam. 1, H318 Specific concentration limits: Eye Dam. 1; H318: C ≥ 30 % Eye Irrit. 2; H319: 20 % ≤ C < 30 %	<15%
CAS: 110-97-4 EINECS: 203-820-9 Reg.nr.: 01-21194754444-34-XXXX	1,1'-iminodipropan-2-ol Eye Irrit. 2, H319	<2%
CAS: 111-46-6 EINECS: 203-872-2 Reg.nr.: 01-2119457857-21-XXXX	2,2'-oxybisethanol Acute Tox. 4, H302	<2%
CAS: 111-77-3 EINECS: 203-906-6 Reg.nr.: 01-2119475100-52-XXXX	2-(2-methoxyethoxy)ethanol Repr. 2, H361d	<0.5%

SVHC

Does not contain any or < 0,1% SVHC according to Regulation (EC) No 1907/2006 (REACH), Article 57.

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 or oxygen; call for doctor.

In case of unconsciousness place patient stably in side position for transportation.

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

After eye contact: Rinse opened eye for several minutes under running water.

After swallowing:

Rinse out mouth and then drink plenty of water.

Seek medical treatment.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

GB

(Contd. on page 3)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 15.05.2020

Version number 1

Revision: 01.05.2020

Trade name: Original ATE Brake Fluid SUPER DOT 5.1

(Contd. of page 2)

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

Water spray

Fire-extinguishing powder

Foam

Use fire extinguishing methods suitable to surrounding conditions.

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

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

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 to enter sewers/surface or ground water.

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: Protect against electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

Store cool and dry.

Storage at room temperature.

Information about storage in one common storage facility:

Store away from water.

Store away from foodstuffs.

Further information about storage conditions:

Recommended storage temperature: 10°C - 35°C.

This product is hygroscopic.

Store in dry conditions.

Keep container tightly sealed.

Storage class according to TRGS 510: 10 combustible liquids.

(Contd. on page 4)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 15.05.2020

Version number 1

Revision: 01.05.2020

Trade name: Original ATE Brake Fluid SUPER DOT 5.1

(Contd. of page 3)

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

SECTION 8: Exposure controls/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

 WEL Long-term value: 101 mg/m³, 23 ppm

111-77-3 2-(2-methoxyethoxy)ethanol

 WEL Long-term value: 50.1 mg/m³, 10 ppm
 Sk

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 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

Supervision in place to check that the risk management measures installed are being used correctly and operation conditions followed.

Ensure control measures are regularly inspected and maintained.

GB

(Contd. on page 5)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 15.05.2020

Version number 1

Revision: 01.05.2020

Trade name: Original ATE Brake Fluid SUPER DOT 5.1

(Contd. of page 4)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form:	Fluid
Colour:	Amber coloured
Odour:	Product specific
Odour threshold:	Not determined.

pH-value at 20 °C:	7.7
--------------------	-----

Change in condition

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	271 °C

Flash point:	137.5 °C
--------------	----------

Flammability (solid, gas):	Not applicable.
----------------------------	-----------------

Ignition temperature:	230 °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:	Not determined.

Vapour pressure at 20 °C:	1 hPa
---------------------------	-------

Density at 20 °C:	1.06 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 23 °C:	11.5 mm ² /s

9.2 Other information	No further relevant information available.
-----------------------	--

SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

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

(Contd. on page 6)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 15.05.2020

Version number 1

Revision: 01.05.2020

Trade name: Original ATE Brake Fluid SUPER DOT 5.1

Nitrogen oxides (NOx)

(Contd. of page 5)

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)

Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol

Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>3,000 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)

111-46-6 2,2'-oxybisethanol

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

111-77-3 2-(2-methoxyethoxy)ethanol

Oral	LD50	>5,000 mg/kg (mouse) (OECD 401)
Dermal	LD50	>5,000 mg/kg (rabbit) (OECD 402)

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.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

LC50	>100 mg/L (fish)
------	------------------

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 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)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 15.05.2020

Version number 1

Revision: 01.05.2020

Trade name: Original ATE Brake Fluid SUPER DOT 5.1

(Contd. of page 6)

LC50	>100 mg/L (daphnia) >100 mg/L (fish) (DIN 38412 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)
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)
111-77-3 2-(2-methoxyethoxy)ethanol	
EC50	>100 mg/l (Algae) >100 mg/l (daphnia)
LC50 (static)	>100 mg/L (fish)

12.2 Persistence and degradability The single components are easily eliminable from water.

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.

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.

European waste catalogue	
16 00 00	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 01 00	end-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08)
16 01 13*	brake fluids

Uncleaned packaging:

Recommendation:

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

GB

(Contd. on page 8)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 15.05.2020

Version number 1

Revision: 01.05.2020

Trade name: Original ATE Brake Fluid SUPER DOT 5.1

(Contd. of page 7)

SECTION 14: Transport information

14.1 UN-Number ADR, IMDG, IATA	Void
14.2 UN proper shipping name ADR, IMDG, IATA	Void
14.3 Transport hazard class(es) ADR, IMDG, IATA Class	Void
14.4 Packing group ADR, 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

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 54

National regulations:

Information about limitation of use:

Employment restrictions concerning pregnant and lactating women must be observed.

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.

Relevant phrases

H302 Harmful if swallowed.
 H318 Causes serious eye damage.
 H319 Causes serious eye irritation.
 H361d Suspected of damaging the unborn child.

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

(Contd. on page 9)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 15.05.2020

Version number 1

Revision: 01.05.2020

Trade name: Original ATE Brake Fluid SUPER DOT 5.1*(Contd. of page 8)*

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. 2: Serious eye damage/eye irritation – Category 2
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.**

GB