



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 08.06.2015

Version number 5

Revision: 30.05.2015

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

1.1 Product identifier

Trade name: Original ATE Brake Fluid SUPER BLUE RACING (DOT 4)

Article number: 03.9901-63xx.x / 7063xx

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 GmbH

Guerickestr. 7

60488 Frankfurt a. M.

Germany

Tel: +49-69-76031

Fax: +49-69-761061

Further information obtainable from:

Gefahrstoffmanagement Konzern, Zentrales Materiallabor

ate.sicherheit@contiautomotive.com

1.4 Emergency telephone number: +49-6132-84463

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

The product is not classified according to the CLP regulation.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 Void

Hazard pictograms Void

Signal word Void

Hazard statements Void

Additional information:

Safety data sheet available on request.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

CAS: 111-46-6	2,2'-oxybisethanol	<5%
EINECS: 203-872-2	☠ STOT RE 2, H373; ☠ Acute Tox. 4, H302	
CAS: 110-97-4	1,1'-iminodipropan-2-ol	<5%
EINECS: 203-820-9	☠ Eye Irrit. 2, H319	

Additional information: For the wording of the listed risk 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.

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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.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media**Suitable extinguishing agents:**CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Use fire extinguishing methods suitable to surrounding conditions.

5.2 Special hazards arising from the substance or mixtureMay be released in case of fire: CO, CO₂, NO_x**5.3 Advice for firefighters****Protective equipment:**

Do not inhale explosion gases or combustion gases.

Wear self-contained respiratory protective device.

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, sawdust).

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:**

Store in dry conditions.

This product is hygroscopic.

Keep container tightly sealed.

Storage class: 10 combustible liquids.**7.3 Specific end use(s)** No further relevant information available.

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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

DNELs

111-46-6 2,2'-oxybisethanol

Dermal	DNEL Public long-term systemic	53 mg/kg bw/d (-)
	DNEL Worker long-term systemic	106 mg/kg bw/d (-)
Inhalative	DNEL Public long-term local effects	12 mg/m ³ (-)
	DNEL Worker long-term local effects	60 mg/m ³ (-)

30989-05-0 MTG-100-Borate

Oral	DNEL Public long-term systemic	1.42 mg/kg bw/d (-)
Dermal	DNEL Public long-term systemic	1.42 mg/kg bw/d (-)
	DNEL Worker long-term systemic	2.36 mg/kg bw/d (-)

PNECs

111-46-6 2,2'-oxybisethanol

PNEC STP	199.5 mg/L (-)
PNEC aqua (fresh water)	10 mg/L (-)
PNEC aqua (marine water)	1 mg/L (-)
PNEC sediment (fresh water)	20.9 mg/kg sedim dw (-)
PNEC soil	1.53 mg/kg soil dw (-)

30989-05-0 MTG-100-Borate

PNEC STP	100 mg/L (-)
PNEC aqua (fresh water)	0.2112 mg/L (-)
PNEC aqua (intermittent releases)	2.112 mg/L (-)
PNEC aqua (marine water)	0.02112 mg/L (-)
PNEC sediment (fresh water)	0.76 mg/kg sedim dw (-)
PNEC sediment (marine water)	0.076 mg/kg sedim dw (-)
PNEC soil	0.0283 mg/kg soil dw (-)

8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures:

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Respiratory protection:

If occupational exposure limits are exceeded, use breathing mask (filter type A). Wear self-contained breathing apparatus in case of danger of oxygen displacement.

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.

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Penetration time of glove material

Butyl caoutchouc (butyl rubber): minimum breakthrough times 180 min; minimum layer thickness: 0.7 mm

NBR (nitrile rubber): minimum breakthrough times 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

Limitation and supervision of exposure into the environment

See section 6 and 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties
General Information
Appearance:

Form:	Fluid
Colour:	Blue
Odour:	Characteristic
Odour threshold:	Not determined.

pH-value at 20 °C: 7-8 (FMVSS 116)

Change in condition

Melting point/Melting range:	< -70 °C (DIN 51583)
Boiling point/Boiling range:	> 280 °C (FMVSS 116)

Flash point: > 130 °C (ISO 2592 (open cup))

Flammability (solid, gaseous): Not applicable.

Ignition temperature: > 200 °C (DIN 51794)

Decomposition temperature: 360 °C (Analogy)

Self-igniting: Product is not selfigniting.

Danger of explosion: Product does not present an explosion hazard.

Explosion limits:

Lower:	Not determined.
Upper:	Not determined.

Vapour pressure at 20 °C: < 0.1 mbar

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 %

9.2 Other information No further relevant information available.

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SECTION 10: Stability and reactivity

10.1 Reactivity

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:

No further relevant information available.

10.6 Hazardous decomposition products:

No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD/LC50 values relevant for classification:

Oral	LD50	>2000 mg/kg (-)
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Primary irritant effect:

Skin corrosion/irritation No irritant effect.

Serious eye damage/irritation No irritating effect.

Respiratory or skin sensitisation No sensitising effects known.

Additional toxicological information:

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction) None.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

EC50	>5000 mg/l (bacteria)
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LL50	250-350 mg/L (fish)
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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 product to reach ground water, water course or sewage system.

12.5 Results of PBT and vPvB assessment

Not applicable.

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

Waste disposal according EC-regulations 75/442/EEC and 91/689/EEC in the corresponding versions, covering waste and dangerous waste.

Recommendation Must be specially treated adhering to official regulations.

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

SECTION 15: Regulatory information

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

No further relevant information available.

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.

H319 Causes serious eye irritation.

H373 May cause damage to the kidneys through prolonged or repeated exposure. Route of exposure: Oral.

Recommended restriction of use

Reserved for industrial and professional use.

For industrial purposes only.

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

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)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

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LD50: Lethal dose, 50 percent

Acute Tox. 4: Acute toxicity, Hazard Category 4

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

Sources<http://www.dguv.de/ifa/de/gestis/stoffdb/><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

*** Data compared to the previous version altered.**

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