



Safety Data Sheet

acc. to OSHA HCS

Printing date 06/08/2015

Version 5

Reviewed on 05/30/2015

1 Identification

Product identifier

Trade name: Original ATE Brake Fluid SUPER DOT 4

Article number: 03.9901-60xx.x / 7060xx

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 GmbH

Guerickestr. 7

60488 Frankfurt a. M.

Germany

Tel: +49-69-76031

Fax: +49-69-761061

Information department:

Gefahrstoffmanagement Konzern, Zentrales Materiallabor

ate.sicherheit@contiautomotive.com

Emergency telephone number: +49-6132-84463

2 Hazard(s) identification

Classification of the substance or mixture



Health hazard

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

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:

2,2'-oxybisethanol

Hazard statements

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

Precautionary statements

Do not breathe dust/fume/gas/mist/vapors/spray.

Get medical advice/attention if you feel unwell.

Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification system:

NFPA ratings (scale 0 - 4)



Health = 0

Fire = 1

Reactivity = 0

HMIS-ratings (scale 0 - 4)



Health = 0

Fire = 1

Reactivity = 0

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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:**

111-46-6	2,2'-oxybisethanol	<10%
	⚠ STOT RE 2, H373; ⚠ Acute Tox. 4, H302	
110-97-4	1,1'-iminodipropan-2-ol	<10%
	⚠ Eye Irrit. 2A, H319	

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

Do not inhale explosion gases or combustion gases.

Wear self-contained respiratory protective device.

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.

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Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
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.

7 Handling and storage

Handling:

Precautions for safe handling

Keep out of the reach of children.
Open and handle receptacle with care.
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: Store away from foodstuffs.

Further information about storage conditions:

Store in dry conditions.
This product is hygroscopic.
Keep receptacle tightly sealed.

Storage class: 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 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:

Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.

Breathing equipment:

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.

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

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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.

9 Physical and chemical properties

Information on basic physical and chemical properties

General Information

Appearance:

Form:	Fluid
Color:	Light yellow
Odor:	Characteristic
Odour threshold:	Not determined.

pH-value at 20 °C: 7-8.5 (FMVSS 116)

Change in condition

Melting point/Melting range:	< -70 °C (DIN 51583)
Boiling point/Boiling range:	> 260 °C

Flash point: 134 °C (ASTM D 7094 (closed cup))

Flammability (solid, gaseous): Not applicable.

Ignition temperature: 200 °C (DIN 51794)

Decomposition temperature: 360 °C (Analogy)

Auto igniting: Product is not selfigniting.

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

Explosion limits:

Lower:	1.5 Vol % (V)
Upper:	Not determined.

Vapor pressure at 20 °C: < 1 mbar

Density at 20 °C:	1.075 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 20 °C:	15-17 mm ² /s (FMVSS 116)

Solvent content:

Organic solvents: 8.0 %

Solids content: 4.9 %

Other information: No further relevant information available.

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10 Stability and reactivity

Reactivity

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: No dangerous decomposition products known.

11 Toxicological information

Information on toxicological effects

Acute toxicity:

LD/LC50 values that are relevant for classification:

Oral	LD50	>5000 mg/kg (rat)
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Primary irritant effect:

on the skin: No irritant effect.

on the eye: No irritating effect.

Sensitization: No sensitizing effects known.

Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations:

Carcinogenic categories

IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

NTP (National Toxicology Program)

None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

Toxicity

Aquatic toxicity:

EC50	15 mg/l (bacteria)
	250-350 mg/l (fish)

Persistence and degradability No further relevant information available.

Other information: The product is easily biodegradable.

Behavior 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 (Self-assessment): slightly hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Results of PBT and vPvB assessment Not applicable.

PBT: Not applicable.

vPvB: Not applicable.

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Other adverse effects No further relevant information available.

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13 Disposal considerations

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.

Uncleaned packagings:

Recommendation:

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

14 Transport information

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

15 Regulatory information

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

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Section 355 (extremely hazardous substances):

None of the ingredients is listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

TSCA (Toxic Substances Control Act):

23783-42-8	2-(2-methoxyethoxy)ethanol
112-35-6	2-(2-(2-methoxyethoxy)ethoxy)ethanol
111-46-6	2,2'-oxybisethanol
110-97-4	1,1'-iminodipropan-2-ol
67701-06-8	Fatty acids, C14-18 and C16-18-unsatd
68442-68-2	Benzenamine, N-phenyl-, styrenated
29385-43-1	methyl-1H-benzotriazole

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4314-14-1	Fat Yellow 3G
68439-46-3	Alcohol ethoxylate (C9-C11, 6 EO)

Proposition 65**Chemicals known to cause cancer:**

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

Carcinogen categories**EPA (Environmental Protection Agency)**

None of the ingredients is listed.

TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

Canadian substance listings:**Canadian Domestic Substances List (DSL)**

30989-05-0	MTG-100-Borate
23783-42-8	2-(2-methoxyethoxy)ethanol
112-35-6	2-(2-(2-methoxyethoxy)ethoxy)ethanol
111-46-6	2,2'-oxybisethanol
110-97-4	1,1'-iminodipropan-2-ol
67701-06-8	Fatty acids, C14-18 and C16-18-unsatd
68442-68-2	Benzenamine, N-phenyl-, styrenated
29385-43-1	methyl-1H-benzotriazole
4314-14-1	Fat Yellow 3G
68439-46-3	Alcohol ethoxylate (C9-C11, 6 EO)

Canadian Ingredient Disclosure list (limit 0.1%)

None of the ingredients is listed.

Canadian Ingredient Disclosure list (limit 1%)

110-97-4	1,1'-iminodipropan-2-ol
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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

Reserved for industrial and professional use.

For industrial purposes only.

Date of preparation / last revision 06/08/2015 / 4**Abbreviations and acronyms:**

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

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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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Acute Tox. 4: Acute toxicity, Hazard Category 4

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

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

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

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