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Trade name: Original ATE Brake Fluid DOT 3 G (yellow)- 03.9901-53xx.x / 7053xx

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Original ATE Brake Fluid DOT 3 G (yellow)- 03.9901-53xx.x /

7053xx

MSDS Number : 888100003543
Product Use Description : Hydraulic fluid

Company : Continental Aftermarket GmbH

Guerickestr. 7

60488 Frankfurt a. M.

Germany

Telephone : +49 69 76 03 1 Telefax : +49 69 76 10 61

Contact person : Corporate Hazardous Substances Management, Central

Material Laboratory

Emergency telephone

number

: +49 61 32 84 46 3

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Regulatory status : This material is considered hazardous by the OSHA Hazard

Communication Standard (29 CFR 1910.1200).

Signal Word : not applicable

Form : liquid
Colour : light yellow
Odour : characteristic
Odour - Control parameters : no data available

Hazard Summary : If used according to the instructions, no risks are expected for

the user.

Potential Health Effects

Chronic Exposure : This product contains a material that may cause adverse

reproductive effects.*

Carcinogenicity:

ACGIH : No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by ACGIH.



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NTP : No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

IARC : No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

OSHA : No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

CA Prop 65 : This product does not contain any chemicals known to State of

California to cause cancer, birth defects, or any other

reproductive harm.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Weight percent
2,2'-(Ethylenedioxy)diethanol	112-27-6	>= 20 - < 25
2,2'-oxybisethanol	111-46-6	>= 20 - < 25
3,6,9-Trioxaundecane-1,11-diol	112-60-7	>= 20 - < 25
2-[2-(2-butoxyethoxy)ethoxy]ethanol	143-22-6	>= 15 - < 20
2-(2-methoxyethoxy)ethanol	111-77-3	>= 3 - < 5

SECTION 4. FIRST AID MEASURES

General advice : Never give anything by mouth to an unconscious person. In the

case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Remove from

exposure, lie down.

Inhalation : Move to fresh air in case of accidental inhalation of vapours or

decomposition products. Keep patient warm and at rest. If

symptoms persist, call a physician.

Skin contact : Wash off with soap and water.

Eye contact : In the case of contact with eyes, rinse immediately with plenty

of water and seek medical advice.

Ingestion : If swallowed, seek medical advice immediately and show this

container or label. If a person vomits when lying on his back,

place him in the recovery position.



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SECTION 5. FIREFIGHTING MEASURES

Form : liquid

Flash point : >118 °C (244 °F)

Method: ISO 2592

Ignition temperature : ca.230 °C (446 °F)

Method: DIN 51794

Lower explosion limit : 1.5 %(V)

Upper explosion limit : Note: not determined

Suitable extinguishing

media

Use water spray, alcohol-resistant foam, dry chemical or

carbon dioxide.

Extinguishing media which shall not be used for safety

reasons

High volume water jet

Special protective

equipment for firefighters

Use personal protective equipment.

Wear self-contained breathing apparatus and protective suit.

Complete suit protecting against chemicals

Further information : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Standard procedure for chemical fires.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Refer to protective measures listed in sections 7 and 8.

Ventilate the area.

Avoid contact with skin, eyes and clothing.

Avoid inhalation of vapour or mist.

Environmental precautions : Do not flush into surface water or sanitary sewer system.

Methods for cleaning up : Contain and collect spillage with non-combustible absorbent

material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national

regulations.



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SECTION 7. HANDLING AND STORAGE

Handling

Handling : For personal protection see section 8.

Advice on protection

against fire and explosion

Normal measures for preventive fire protection.

Dust explosion class

not applicable

Storage

Requirements for storage

areas and containers

: Store in original container.

Keep containers tightly closed in a dry, cool and well-ventilated

place.

Advice on common storage : Never allow product to get in contact with water during storage.

Keep away from food, drink and animal feedingstuffs. Keep away from oxidising agents, strongly acid or alkaline

materials and amines.

Other data : No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Components	CAS-No.	List	Туре:	Value	Update
2.2'-oxybisethanol	111-46-6	US WEEL	TWA	10 mg/m3	2008-01-01

Engineering measures : Provide adequate ventilation.

Eye protection : In case of splash hazard, please wear protective goggles.

Hand protection : Choose gloves to protect hands against chemicals depending

on the concentration and quantity of the hazardous substance

and specific to place of work.

For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective

gloves with the glove manufacturer.



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Respiratory protection : In case of insufficient ventilation, wear suitable respiratory

equipment.

Respirator with filter type A

Respirator with a vapour filter (EN 141)

Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice.

Please thoroughly clean and care for the skin after finishing

work.

Wash contaminated clothing before re-use. When using do not eat, drink or smoke.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form : liquid

Colour : light yellow

Odour : characteristic

Flash point : >118 °C (244 °F)

Method: ISO 2592

Ignition temperature : ca.230 °C (446 °F)

Method: DIN 51794

Thermal decomposition : $> 360 \, ^{\circ}\text{C} \, (> 680 \, ^{\circ}\text{F})$

Lower explosion limit : 1.5 %(V)

Upper explosion limit : not determined

pH : 7.5 - 10

at 20 °C (68 °F)

Pour point : $<-70 \,^{\circ}\text{C} \, (-94 \,^{\circ}\text{F})$

Method: DIN 51583

Boiling point/boiling range : $> 245 \, ^{\circ}\text{C}(> 473 \, ^{\circ}\text{F})$

Vapour pressure : < 10 mbar

at 20 °C (68 °F)

Relative vapour density : not applicable



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Density : 1.04 - 1.07 g/cm3

Method: DIN 51757

Bulk density : not applicable

Water solubility : at 20 °C (68 °F)

in all proportions

Partition coefficient: n-

octanol/water

not applicable

Viscosity, kinematic : 14.5 - 17 mm2/s

at 20 °C (68 °F)

Volatile organic compounds

(VOC) content

: 4%

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid : no data available

Materials to avoid : Strong acids and oxidizing agents

Hazardous decomposition

products

: Carbon dioxide (CO2)

Carbon monoxide nitrogen oxides (NOx)

Thermal decomposition : > 360 °C

Hazardous reactions : Note: No decomposition if used as directed., Product is

hygroscopic.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50 rat

Dose: > 2,000 mg/kg

The toxicological data has been taken from products of similar

composition.

Acute dermal toxicity : no data available

Acute inhalation toxicity : no data available

Skin irritation : rabbit



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Result: No skin irritation

Method: OECD Test Guideline 404

The toxicological data has been taken from products of similar

composition.

Eye irritation : rabbit

Result: No eye irritation

Method: OECD Test Guideline 405

The toxicological data has been taken from products of similar

composition.

Carcinogenicity
Reproductive toxicity
Teratogenicity

No data is available on the product itself.

No data is available on the product itself.

No data is available on the product itself.

Component:

2,2'-(Ethylenedioxy)diethanol

112-27-6

Acute oral toxicity: LD50 rat Dose: 17,000 mg/kg

Acute dermal toxicity: LD50 rat

Dose: > 5,000 mg/kg

Skin irritation: Classification: Irritating to skin.

Result: Mild skin irritation

Eye irritation: Classification: Irritating to eyes.

Result: Mild eye irritation

2,2'-oxybisethanol 111-46-6

Acute oral toxicity: LD50
Dose: > 300 - 2,000 mg/kg

3,6,9-Trioxaundecane-1,11-diol

112-60-7

Acute oral toxicity: LD50 rat

Dose: 29,000 mg/kg

Eye irritation: Classification: Irritating to eyes.

Result: Mild eye irritation

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

Acute oral toxicity: LD50 mouse

Dose: 7,128 mg/kg

Method: OECD Test Guideline 401

Acute dermal toxicity: LD50 rabbit

Dose: 9,404 mg/kg

Method: OECD Test Guideline 402

Acute inhalation toxicity: LC0 rat

Dose: > 1.2 mg/l

Exposure time: 6 h Method: OECD Test Guideline 403

Skin irritation: rabbit Result: No skin irritation



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Method: OECD Test Guideline 404

Eye irritation: rabbit Result: No eye irritation

Method: OECD Test Guideline 405

Reproductive toxicity: Suspected human reproductive toxicant, Suspected of damaging the unborn child.

SECTION 12. ECOLOGICAL INFORMATION

Biodegradability Result: Biodegradable

Information given is based on data on the components and the

ecotoxicology of similar products.

Bioaccumulation no data available

Toxicity to fish LC50

Species: Leuciscus idus (Golden orfe)

Dose: 596 mg/l Exposure time: 96 h

Information given is based on data on the components and the

ecotoxicology of similar products.

EC50 Toxicity to bacteria

> Species: Bacteria Dose: > 15,000 mg/l

Information given is based on data on the components and the

ecotoxicology of similar products.

Adsorbed organic bound

halogens (AOX)

: not included

Volatile organic compounds : 4 %

(VOC) content

Additional ecological

Contains no substances known to be hazardous to the

environment or not degradable in waste water treatment plants.

Component:

information

2-(2-methoxyethoxy)ethanol 111-77-3 Toxicity to fish:

LC50

Species: Pimephales promelas (fathead minnow)

Dose: 5,741 mg/l Exposure time: 96 h

Acute and prolonged toxicity for aquatic invertebrates:

EC50



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Species: Daphnia magna (Water flea)

Dose: 1,192 mg/l Exposure time: 48 h

Toxicity to algae:

EC50

Species: Pseudokirchneriella subcapitata (green algae)

Dose: > 1,000 mg/l Exposure time: 96 h

<u>Toxicity to bacteria:</u>
Respiration inhibition of activated sludgeEC50

Species:

Dose: > 1,000 mg/l Exposure time: 30 min

Method: OECD Test Guideline 209

SECTION 13. DISPOSAL CONSIDERATIONS

Adequate disposal : In accordance with local and national regulations.

SECTION 14. TRANSPORT INFORMATION

DOT 49 CFR

Not dangerous goods

TDGR

Not dangerous goods

ICAO / IATA-DGR

Not dangerous goods

IMDG-Code

Not dangerous goods

SECTION 15. REGULATORY INFORMATION

OSHA Hazards : Reproductive hazard

TSCA Status : Listed on TSCA

DSL Status : This product contains one or several components listed in the

Canadian NDSL.



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SARA 311/312 Hazards : Chronic Health Hazard

ZUS_SAR313 US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA

Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification

Required

The following components are subject to reporting levels established by SARA Title III, Section 313:

Components	CAS-No.
2-(2-(2-methoxyethoxy)ethoxy)ethanol	112-35-6
2-[2-(2-butoxyethoxy)ethoxy]ethanol	143-22-6
2-(2-methoxyethoxy)ethanol	111-77-3

ZUS_SAR302

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title

III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

ZUSPA RTK

US. Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323)

Components	CAS-No.
3,6,9,12-tetraoxotridecanol	23783-42-8
2-(2-(2-methoxyethoxy)ethoxy)ethanol	112-35-6
2,2'-(Ethylenedioxy)diethanol	112-27-6
3,6,9-Trioxaundecane-1,11-diol	112-60-7
3,6,9,12-tetraoxatetradecane-1,14-diol	4792-15-8
2,2'-oxybisethanol	111-46-6
2-[2-(2-butoxyethoxy)ethoxy]ethanol	143-22-6
2-(2-methoxyethoxy)ethanol	111-77-3

ZUSMA RTK

US. Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105 Code of Massachusetts Regulations Section 670.000)

Components	CAS-No.
2-(2-methoxyethoxy)ethanol	111-77-3

ZUSNJ_RTK

US. New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated Section 34:5A-5)

Components	CAS-No.
3,6,9,12-tetraoxotridecanol	23783-42-8
2-(2-(2-methoxyethoxy)ethoxy)ethanol	112-35-6
2,2'-(Ethylenedioxy)diethanol	112-27-6
3,6,9-Trioxaundecane-1,11-diol	112-60-7
2,2'-oxybisethanol	111-46-6
2-[2-(2-butoxyethoxy)ethoxy]ethanol	143-22-6
2-(2-methoxyethoxy)ethanol	111-77-3



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California Prop. 65 : This product does not contain any chemicals known to State of

California to cause cancer, birth defects, or any other

reproductive harm.

SECTION 16. OTHER INFORMATION

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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