

Safety Data Sheet

according to UK REACH Regulation

Mintex Brake Fluid DOT 3

Revision date: 28.02.2024

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Mintex Brake Fluid DOT 3

Product code:

MBF3-1000B

1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/mixture**Hydraulic (functional) fluids
PC-TEC-8: Hydraulic fluids, including brake and transmission fluids**1.3. Details of the supplier of the safety data sheet****Manufacturer**

Company name: TMD Friction Services GmbH
Street: Schlebuscher Str. 99
Place: D-51381 Leverkusen
Telephone: +49 (2171)703-0
E-mail: serviceline@tmdfriction.com
Contact person: Hr. Beier
E-mail: serviceline@tmdfriction.com
Internet: www.tmdfriction.com

Telephone: +49 (2171)9113-7373

Supplier

Company name: TMD Friction UK Ltd
Street: 46-47, Hardwick Grange
Place: Woolston, Warrington WA1 4RF
Telephone: +44 03300 583908

1.4. Emergency telephone number:

GIZ Bonn: +49 (0)228-19240 (24/7)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****GB CLP Regulation**Eye Irrit. 2; H319
Repr. 2; H361fd

Full text of hazard statements: see SECTION 16.

2.2. Label elements**GB CLP Regulation****Hazard components for labelling**

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

Signal word: Warning**Pictograms:****Hazard statements**

H319 Causes serious eye irritation.
H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

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Precautionary statements

| | |
|-----------|---|
| P101 | If medical advice is needed, have product container or label at hand. |
| P102 | Keep out of reach of children. |
| P202 | Do not handle until all safety precautions have been read and understood. |
| P280 | Wear protective gloves and eye/face protection. |
| P308+P313 | IF exposed or concerned: Get medical advice/attention. |
| P405 | Store locked up. |
| P501 | Dispose of waste according to applicable legislation. |

2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

This material is combustible, but will not ignite readily.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Relevant ingredients

| CAS No | Chemical name | Quantity |
|------------|---|------------------|
| | EC No | Index No |
| | REACH No | |
| | Classification (GB CLP Regulation) | |
| 143-22-6 | 2-[2-(2-butoxyethoxy)ethoxy]ethanol; TEGBE; triethylene glycol monobutylether; butoxytriethylene glycol | 25 - < 30 % |
| | 205-592-6 | 603-183-00-0 |
| | 01-2119475107-38 | |
| | Eye Dam. 1; H318 | |
| 30989-05-0 | Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate | 15 - 25 % |
| | 250-418-4 | 01-2119462824-33 |
| | Repr. 2; H361fd | |
| 111-46-6 | 2,2'-oxybisethanol; diethylene glycol | 10 - 15 % |
| | 203-872-2 | 603-140-00-6 |
| | 01-2119457857-21 | |
| | Acute Tox. 4; H302 | |
| 1559-34-8 | 3,6,9,12-tetraoxahexadecan-1-ol | 5 - 10 % |
| | 216-322-1 | |
| | Eye Irrit. 2; H319 | |
| 112-34-5 | 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether | 1 - 3 % |
| | 203-961-6 | 603-096-00-8 |
| | 01-2119475104-44 | |
| | Eye Irrit. 2; H319 | |
| 111-77-3 | 2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether | < 0,25 % |
| | 203-906-6 | 603-107-00-6 |
| | 01-2119475100-52 | |
| | Repr. 1B; H360D | |

Full text of H and EUH statements: see section 16.

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Specific Conc. Limits, M-factors and ATE

| CAS No | EC No | Chemical name | Quantity |
|----------|-----------|---|-------------|
| | | Specific Conc. Limits, M-factors and ATE | |
| 143-22-6 | 205-592-6 | 2-[2-(2-butoxyethoxy)ethoxy]ethanol; TEGBE; triethylene glycol monobutylether; butoxytriethylene glycol | 25 - < 30 % |
| | | Eye Dam. 1; H318: >= 30 - 100 Eye Irrit. 2; H319: >= 20 - < 30 | |
| 111-46-6 | 203-872-2 | 2,2'-oxybisethanol; diethylene glycol | 10 - 15 % |
| | | oral: ATE = 500 mg/kg | |
| 111-77-3 | 203-906-6 | 2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether | < 0,25 % |
| | | Repr. 1B; H360D: >= 3 - 100 | |

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

When in doubt or if symptoms are observed, get medical advice. Never give anything by mouth to an unconscious person or a person with cramps.

After inhalation

Provide fresh air. Medical treatment necessary.

After contact with skin

Wash with plenty of water. Immediately remove any contaminated clothing, shoes or stockings. Medical treatment necessary.

Clean with detergents. Avoid solvent cleaners.

After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion

Rinse mouth immediately and drink plenty of water. Observe risk of aspiration if vomiting occurs. Do NOT induce vomiting. Immediately call a doctor.

Following ingestion large scale (Manufacturer): Immediately call a doctor. Alcohol (40 %) 90 - 120 mL (2 mg/kg bw)

4.2. Most important symptoms and effects, both acute and delayed

No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Water mist, alcohol resistant foam, Dry extinguishing powder, Carbon dioxide (CO₂).

Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

This material is combustible, but will not ignite readily.

In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO₂), Pyrolysis products, toxic.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Full protection suit.

Additional information

Suppress gases/vapours/mists with water spray jet. Use water spray jet to protect personnel and to cool

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endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Do not breathe gas/vapour/aerosol. Avoid contact with skin, eyes and clothes. Evacuate area. Remove persons to safety. Special danger of slipping by leaking/spilling product.

For non-emergency personnel

Provide adequate ventilation. Use personal protection equipment.

For emergency responders

Wear personal protection equipment (refer to section 8).

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers). In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up**For containment**

Stop leak if safe to do so. Cover drains.

For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

Clean with detergents. Avoid solvent cleaners.

Other information

Clean contaminated articles and floor according to the environmental legislation.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Provide adequate ventilation. Avoid contact with skin, eyes and clothes. Do not breathe gas/vapour/aerosol. Wear personal protection equipment.

Advice on protection against fire and explosion

Usual measures for fire prevention.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep container tightly closed in a cool, well-ventilated place. Keep only in the original container. Keep locked up. Store in a place accessible by authorized persons only.

Hints on joint storage

Do not store together with: Acid, alkali (Base), Oxidising agent, Reducing agent.

Further information on storage conditions

Keep away from heat.

storage temperature: 15 - 30 °C

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7.3. Specific end use(s)

Hydraulic (functional) fluids
 PC-TEC-8: Hydraulic fluids, including brake and transmission fluids

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

| CAS No | Substance | ppm | mg/m ³ | fibres/ml | Category | Origin |
|----------|----------------------------|-----|-------------------|-----------|---------------|--------|
| 112-34-5 | 2-(2-Butoxyethoxy)ethanol | 10 | 67.5 | | TWA (8 h) | WEL |
| | | 15 | 101.2 | | STEL (15 min) | WEL |
| 111-77-3 | 2-(2-Methoxyethoxy)ethanol | 10 | 50.1 | | TWA (8 h) | WEL |
| 111-46-6 | 2,2'-Oxydiethanol | 23 | 101 | | TWA (8 h) | WEL |

DNEL/DMEL values

| CAS No | Substance | Exposure route | Effect | Value |
|------------------------|---|----------------|--------|------------------------|
| 143-22-6 | 2-[2-(2-butoxyethoxy)ethoxy]ethanol; TEGBE; triethylene glycol monobutylether; butoxytriethylene glycol | | | |
| Worker DNEL, long-term | dermal | systemic | | 50 mg/kg bw/day |
| Worker DNEL, long-term | inhalation | systemic | | 195 mg/m ³ |
| 30989-05-0 | Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate | | | |
| Worker DNEL, long-term | dermal | systemic | | 8,3 mg/kg bw/day |
| Worker DNEL, long-term | inhalation | systemic | | 29,1 mg/m ³ |
| 111-46-6 | 2,2'-oxybisethanol; diethylene glycol | | | |
| Worker DNEL, long-term | dermal | systemic | | 43 mg/kg bw/day |
| Worker DNEL, long-term | inhalation | systemic | | 44 mg/m ³ |
| 112-34-5 | 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether | | | |
| Worker DNEL, long-term | dermal | systemic | | 20 mg/kg bw/day |
| Worker DNEL, long-term | inhalation | systemic | | 67 mg/m ³ |
| 111-77-3 | 2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether | | | |
| Worker DNEL, long-term | dermal | systemic | | 2,22 mg/kg bw/day |
| Worker DNEL, long-term | inhalation | systemic | | 50,1 mg/m ³ |

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PNEC values

| CAS No | Substance | Value |
|---------------------------|---|------------|
| Environmental compartment | | |
| 143-22-6 | 2-[2-(2-butoxyethoxy)ethoxy]ethanol; TEGBE; triethylene glycol monobutylether; butoxytriethylene glycol | |
| | Micro-organisms in sewage treatment plants (STP) | 200 mg/l |
| 30989-05-0 | Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate | |
| | Micro-organisms in sewage treatment plants (STP) | 100 mg/l |
| 111-46-6 | 2,2'-oxybisethanol; diethylene glycol | |
| | Micro-organisms in sewage treatment plants (STP) | 199,5 mg/l |
| 112-34-5 | 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether | |
| | Micro-organisms in sewage treatment plants (STP) | 200 mg/l |
| 111-77-3 | 2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether | |
| | Micro-organisms in sewage treatment plants (STP) | 10000 mg/l |

8.2. Exposure controls



Appropriate engineering controls

Provide adequate ventilation as well as local exhaust at critical locations.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye/face protection. Eye glasses with side protection (EN 166)

Hand protection

Wear suitable gloves tested to EN374.

penetration time (maximum wearing period): > 480 min.

Suitable material: Butyl caoutchouc (butyl rubber)

Thickness of glove material: 0,3 mm

Suitable material: NBR (Nitrile rubber)

Thickness of glove material: 0,2 mm

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Wear suitable protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Thermal hazards

No information available.

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid

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| | |
|---|--|
| Colour: | amber |
| Odour: | characteristic |
| Odour threshold: | not applicable |
| Melting point/freezing point: | < -50 °C |
| Boiling point or initial boiling point and boiling range: | > 210 °C |
| Flammability: | This material is combustible, but will not ignite readily. |
| Lower explosion limits: | not determined |
| Upper explosion limits: | not determined |
| Flash point: | > 100 °C |
| Auto-ignition temperature: | > 280 °C |
| Decomposition temperature: | 300 °C |
| pH-Value: | 7 - 10,5 |
| Viscosity / kinematic: (at 20 °C) | 5 - 10 mm ² /s |
| Water solubility: | easily soluble |
| Solubility in other solvents | not determined |
| Partition coefficient n-octanol/water: | 1,50 |
| Vapour pressure: (at 20 °C) | 1,0 hPa |
| Density: | 1,01 - 1,06 g/cm ³ |
| Relative vapour density: | not determined |
| Particle characteristics: | not applicable |

9.2. Other information**Other safety characteristics**

Evaporation rate: (n-Butyl acetate=100) 0,01

Further Information

No information available.

SECTION 10: Stability and reactivity**10.1. Reactivity**

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid

Keep away from heat.

10.5. Incompatible materials

Acid, alkali (Base), Oxidising agent, Reducing agent.

10.6. Hazardous decomposition productsIn case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO₂), Pyrolysis products, toxic.**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in GB CLP Regulation****Acute toxicity**

Absorption large scale (Manufacturer): May cause damage to organs. (kidneys)

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ATEmix tested

| | Dose | Species | Source |
|--------------|--------------|---------|--------------|
| LD50, oral | > 5000 mg/kg | Rat | Manufacturer |
| LD50, dermal | > 3000 mg/kg | Rabbit | Manufacturer |

ATEmix calculated

ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

| CAS No | Chemical name | | | | |
|----------|---------------------------------------|---------------|---------|--------|--------|
| | Exposure route | Dose | Species | Source | Method |
| 111-46-6 | 2,2'-oxybisethanol; diethylene glycol | | | | |
| | oral | ATE 500 mg/kg | | | |

Information on likely routes of exposure

oral, Skin contact, Eye contact, Inhalation.

11.2. Information on other hazards

Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

Other information

Absorption large scale (Manufacturer)

The following symptoms may occur: Depression of central nervous system, kidneys Gastrointestinal complaints, Headache, Nausea.

SECTION 12: Ecological information

12.1. Toxicity

Based on available data, the classification criteria are not met.

The product is not: Ecotoxic.

12.2. Persistence and degradability

Product is biodegradable. (OECD 302B)

12.3. Bioaccumulative potential

Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.

12.4. Mobility in soil

Soluble in: Water. If product enters soil, it will be mobile and may contaminate groundwater.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No information available.

Further information

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

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Contaminated packaging

Hazardous waste according to Directive 2008/98/EC (waste framework directive). Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information**Land transport (ADR/RID)**

| | |
|--|--|
| 14.1. UN number or ID number: | No dangerous good in sense of this transport regulation. |
| 14.2. UN proper shipping name: | No dangerous good in sense of this transport regulation. |
| 14.3. Transport hazard class(es): | No dangerous good in sense of this transport regulation. |
| 14.4. Packing group: | No dangerous good in sense of this transport regulation. |

Inland waterways transport (ADN)

| | |
|--|--|
| 14.1. UN number or ID number: | No dangerous good in sense of this transport regulation. |
| 14.2. UN proper shipping name: | No dangerous good in sense of this transport regulation. |
| 14.3. Transport hazard class(es): | No dangerous good in sense of this transport regulation. |
| 14.4. Packing group: | No dangerous good in sense of this transport regulation. |

Marine transport (IMDG)

| | |
|--|--|
| 14.1. UN number or ID number: | No dangerous good in sense of this transport regulation. |
| 14.2. UN proper shipping name: | No dangerous good in sense of this transport regulation. |
| 14.3. Transport hazard class(es): | No dangerous good in sense of this transport regulation. |
| 14.4. Packing group: | No dangerous good in sense of this transport regulation. |

Air transport (ICAO-TI/IATA-DGR)

| | |
|--|--|
| 14.1. UN number or ID number: | No dangerous good in sense of this transport regulation. |
| 14.2. UN proper shipping name: | No dangerous good in sense of this transport regulation. |
| 14.3. Transport hazard class(es): | No dangerous good in sense of this transport regulation. |
| 14.4. Packing group: | No dangerous good in sense of this transport regulation. |

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

No information available.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 30, Entry 54, Entry 55, Entry 75

Directive 2010/75/EU on industrial emissions: < 26 %

Information according to Directive 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

National regulatory information

Employment restrictions:

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D): 1 - slightly hazardous to water

Additional information

Observe in addition any national regulations!

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15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information**Changes**

This data sheet contains changes from the previous version in section(s): 7,9,11,12,15,16.

Abbreviations and acronyms

Acute Tox: Acute toxicity

Eye Dam: Eye damage

Eye Irrit: Eye irritation

Repr: Reproductive toxicity

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

CAS: Chemical Abstracts Service

M-Factor: Multiplication Factor

DNEL: Derived No Effect Level

DMEL: Derived Minimal Effect Level

PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

LL50: Lethal loading, 50%

EL50: Effect loading, 50%

EC50: Effective Concentration 50%

ErC50: Effective Concentration 50%, growth rate

NOEC: No Observed Effect Concentration

BCF: Bio-concentration factor

PBT: persistent, bioaccumulative, toxic

vPvB: very persistent, very bioaccumulative

ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Regulations concerning the international carriage of dangerous goods by rail

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation
intérieures)

IMDG: International Maritime Code for Dangerous Goods

EmS: Emergency Schedules

MFAG: Medical First Aid Guide

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

TI: Technical Instructions

DGR: Dangerous Goods Regulations

MARPOL: International Convention for the Prevention of Marine Pollution from Ships

IBC: Intermediate Bulk Container

VOC: Volatile Organic Compounds

EG or EC: European Community

IE: Industrial Emissions

SVHC: Substance of Very High Concern

Key literature references and sources for data

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations). (v.1.2, 2013)

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Classification for mixtures and used evaluation method according to GB CLP Regulation

| Classification | Classification procedure |
|--------------------|--------------------------|
| Eye Irrit. 2; H319 | Calculation method |
| Repr. 2; H361fd | Calculation method |

Relevant H and EUH statements (number and full text)

| | |
|--------|--|
| H302 | Harmful if swallowed. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H360D | May damage the unborn child. |
| H361fd | Suspected of damaging fertility. Suspected of damaging the unborn child. |

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)