## Textar Brake Fluid DOT 3

Revision date: 28.02.2024

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

### 1.1. Product identifier

Textar Brake Fluid DOT 3
Product code:
95001200
1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture
Hydraulic (functional) fluids
1.3. Details of the supplier of the safety data sheet

Company name:
Street:
Place:
Telephone:
E-mail:
Contact person:
E-mail:
Internet:

TMD Friction Services GmbH
Schlebuscher Str. 99
D-51381 Leverkusen
+49 (2171)703-0
serviceline@tmdfriction.com
Hr. Beier
serviceline@tmdfriction.com
www.tmdfriction.com

Telephone: +49 (2171)9113-7373

### 1.4. Emergency telephone number:

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture GSO 2654:2021

Eye Irrit. 2; H319
Repr. 2; H361fd
Full text of hazard statements: see SECTION 16.

### 2.2. Label elements <br> GSO 2654:2021

Hazard components for labelling
Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate
Signal word:
Warning
Pictograms:



## Hazard statements

H319
Causes serious eye irritation.
Suspected of damaging fertility. 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.
P202 Do not handle until all safety precautions have been read and understood.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P405 Store locked up.

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Dispose of waste according to applicable legislation.

### 2.3. Other hazards

This material is combustible, but will not ignite readily.
SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

Hazardous components


Full text of H and EUH statements: see section 16.
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; <br> 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 | $1-3 \%$ |
|  | Repr. $1 \mathrm{~B} ; \mathrm{H} 360 \mathrm{D}: ~>=3-100$ |  |  |

## 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 <br> 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 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.

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## 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
storage temperature: $15-30^{\circ} \mathrm{C}$

### 7.3. Specific end use(s)

Hydraulic (functional) fluids

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

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## DNEL/DMEL values

| CAS No | Substance |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| DNEL type |  | 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 | $50 \mathrm{mg} / \mathrm{kg}$ bw/day |
| Worker DNEL, long-term |  | inhalation | systemic | $195 \mathrm{mg} / \mathrm{m}^{3}$ |
| 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 | $29,1 \mathrm{mg} / \mathrm{m}^{3}$ |
| 111-46-6 | 2,2'-oxybisethanol; diethylene glycol |  |  |  |
| Worker DNEL, long-term |  | dermal | systemic | $43 \mathrm{mg} / \mathrm{kg}$ bw/day |
| Worker DNEL, long-term |  | inhalation | systemic | $44 \mathrm{mg} / \mathrm{m}^{3}$ |
| 112-34-5 | 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether |  |  |  |
| Worker DNEL, long-term |  | dermal | systemic | $20 \mathrm{mg} / \mathrm{kg}$ bw/day |
| Worker DNEL, long-term |  | inhalation | systemic | $67 \mathrm{mg} / \mathrm{m}^{3}$ |
| 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 | $50,1 \mathrm{mg} / \mathrm{m}^{3}$ |

## PNEC values

| CAS No | Substance |  |
| :---: | :---: | :---: |
| Environmental compartment |  | Value |
| 143-22-6 | 2-[2-(2-butoxyethoxy)ethoxy]ethanol; TEGBE; triethylene glycol monobutylether; butoxytriethylene glycol |  |
| Micro-organisms in sewage treatment plants (STP) |  | $200 \mathrm{mg} / \mathrm{l}$ |
| 30989-05-0 | Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate |  |
| Micro-organisms in sewage treatment plants (STP) |  | $100 \mathrm{mg} / \mathrm{l}$ |
| 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) |  | $200 \mathrm{mg} / \mathrm{l}$ |
| 111-77-3 | 2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether |  |
| Micro-organisms in sewage treatment plants (STP) |  | $10000 \mathrm{mg} / \mathrm{l}$ |

### 8.2. Exposure controls



Appropriate engineering controls
Provide adequate ventilation as well as local exhaustion at critical locations.
Individual protection measures, such as personal protective equipment
Eye/face protection
Wear eye/face protection. Eye glasses with side protection

## Hand protection

Tested protective gloves must be worn:

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penetration time (maximum wearing period): > 480 min .
Suitable material: Butyl caoutchouc (butyl rubber)
Thickness of glove material: $0,3 \mathrm{~mm}$
Suitable material: NBR (Nitrile rubber)
Thickness of glove material: $0,2 \mathrm{~mm}$
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:
Colour:
Odour:
Odour threshold:
Melting point/freezing point:
Boiling point or initial boiling point and
boiling range:
Flammability:
Lower explosion limits:
Upper explosion limits:
Flash point:
Auto-ignition temperature:
Decomposition temperature:
pH-Value:
Viscosity / kinematic:
(at $20^{\circ} \mathrm{C}$ )
Water solubility:
Solubility in other solvents not determined
Partition coefficient n-octanol/water:
Vapour pressure:
(at $20^{\circ} \mathrm{C}$ )
Density:
Relative vapour density:
Particle characteristics:

Liquid
amber
characteristic
not applicable

$$
\begin{aligned}
& <-50^{\circ} \mathrm{C} \\
& >210^{\circ} \mathrm{C}
\end{aligned}
$$

This material is combustible, but will not ignite
readily.
not determined not determined
$>100^{\circ} \mathrm{C}$
$>280^{\circ} \mathrm{C}$
$300^{\circ} \mathrm{C}$
7-10,5
$5-10 \mathrm{~mm}^{2} / \mathrm{s}$
miscible
$1,0 \mathrm{hPa}$
$1,01-1,06 \mathrm{~g} / \mathrm{cm}^{3}$ not determined not applicable

### 9.2. Other information

Other safety characteristics
Evaporation rate:

## Further Information

(n-Butyl acetate $=100$ ) 0,01

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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 products

In 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 Regulation GSO 2654:2021

Acute toxicity
Based on available data, the classification criteria are not met.
Absorption large scale (Manufacturer): May cause damage to organs. (kidneys)
ATEmix tested

|  | Dose | Species | Source |
| :--- | :--- | :--- | :--- |
| LD50, oral | $>5000 \mathrm{mg} / \mathrm{kg}$ | Rat | Manufacturer |
| LD50, dermal | $>3000 \mathrm{mg} / \mathrm{kg}$ | Rabbit | Manufacturer |

ATEmix calculated
ATE (inhalation vapour) $>20 \mathrm{mg} / \mathrm{l}$; ATE (inhalation dust/mist) $>5 \mathrm{mg} / \mathrm{l}$

| CAS No | Chemical name |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  | Exposure route | Dose | Species | Source | Method |
| $111-46-6$ | $2,2^{\prime}$-oxybisethanol; diethylene glycol |  |  |  |  |
|  | ral | ATE $500 \mathrm{mg} / \mathrm{kg}$ |  |  |  |

## Irritation and corrosivity

Causes serious eye irritation.
Skin corrosion/irritation: Based on available data, the classification criteria are not met.

## Sensitising effects

Based on available data, the classification criteria are not met.
Carcinogenic/mutagenic/toxic effects for reproduction
Suspected of damaging fertility. Suspected of damaging the unborn child. (Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate)
Germ cell mutagenicity: Based on available data, the classification criteria are not met.
Carcinogenicity: Based on available data, the classification criteria are not met.
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.

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## Aspiration hazard

Based on available data, the classification criteria are not met.
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, Gastrointestinal complaints, Headache, Nausea.

## SECTION 12: Ecological information

### 12.1. Toxicity

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 REACH, annex XIII.

### 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.

## Contaminated packaging

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:
14.2. UN proper shipping name:
14.3. Transport hazard class(es):
14.4. Packing group:

Inland waterways transport (ADN)
14.1. UN number or ID number:
14.2. UN proper shipping name:
14.3. Transport hazard class(es):

No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation.

No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation.

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### 14.4. Packing group:

Marine transport (IMDG)
14.1. UN number or ID number:
14.2. UN proper shipping name:
14.3. Transport hazard class(es):
14.4. Packing group:

Air transport (ICAO-TI/IATA-DGR)
14.1. UN number or ID number:
14.2. UN proper shipping name:
14.3. Transport hazard class(es):
14.4. Packing group:
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

## Regulatory information

Restrictions on use (REACH, annex XVII): Entry 3, Entry 30, Entry 54, Entry 55, Entry 75
Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline'. Observe employment restrictions under the Maternity Protection Directive for expectant or nursing mothers.

## Additional information

Observe in addition any national regulations!

### 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.

## Abbreviations and acronyms

ACGIH: American Conference of Governmental Industrial Hygienist
ATE: Acute toxicity estimate
BCF: Bio-concentration factor
CAS: Chemical Abstracts Service
DGR: Dangerous Goods Regulations
DNEL: Derived No Effect Level
DMEL: Derived Minimal Effect Level
PNEC: Predicted No Effect Concentration
EC50: Effective Concentration 50\%
EL50: Effect loading, 50\%
ErC50: Effective Concentration 50\%, growth rate
DNEL: Derived No Effect Level
DMEL: Derived Minimal Effect Level
PNEC: Predicted No Effect Concentration

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GHS: Globally Harmonized System of Classification and Labelling of Chemicals
IATA: International Air Transport Association
IBC: Intermediate Bulk Container
ICAO: International Civil Aviation Organization
IMDG: International Maritime Code for Dangerous Goods
LC50: Lethal concentration, 50\%
LD50: Lethal dose, 50\%
LL50: Lethal loading, 50\%
MARPOL: International Convention for the Prevention of Marine Pollution from Ships
NOEC: No Observed Effect Concentration
OEL: Occupational Exposure Limit
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
STEL: Short-Term Exposure Limit
TWA: Time weighted average
UN: United Nations
Classification for mixtures and used evaluation method according to GSO 2654:2021

| 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.)

