

# Safety Data Sheet

according to UN-GHS (ST/SG/AC.10/30/Rev.5)

## Textar Brake fluid Dot 3

Revision date: 16.04.2021

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### 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:	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	Telephone: +49 (2171)9113-7373
e-mail:	serviceline@tmdfriction.com	
Internet:	www.tmdfriction.com	

#### 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

##### UN-GHS (ST/SG/AC.10/30/Rev.5)

Hazard categories:

Acute toxicity: Acute Tox. 5

Serious eye damage/eye irritation: Eye Irrit. 2

Reproductive toxicity: Repr. 2

Hazard Statements:

May be harmful in contact with skin.

Causes serious eye irritation.

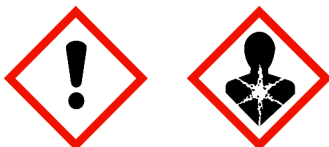
Suspected of damaging fertility or the unborn child.

#### 2.2. Label elements

##### UN-GHS (ST/SG/AC.10/30/Rev.5)

Signal word: Warning

Pictograms:



##### Hazard statements

May be harmful in contact with skin.

Causes serious eye irritation.

Suspected of damaging fertility or the unborn child.

##### Precautionary statements

If medical advice is needed, have product container or label at hand.

Keep out of reach of children.

Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

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IF exposed or concerned: Get medical advice/attention.  
Store locked up.  
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

CAS No	Chemical name	Quantity
	EC No	Index No
	GHS Classification	
143-22-6	2-[2-(2-butoxyethoxy)ethoxy]ethanol; TEGBE; triethylene glycol monobutylether; butoxytriethylene glycol	25 - < 30 %
	205-592-6	603-183-00-0
	Eye Dam. 1; H318	
111-46-6	2,2'-oxybisethanol; diethylene glycol	20 - < 25 %
	203-872-2	603-140-00-6
	Acute Tox. 4; H302	
30989-05-0	Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate	20 - < 25 %
	250-418-4	
	Repr. 2; H361	
9004-77-7	Polyethylene glycol butyl ether	10 - < 15 %
	500-012-0	
	Eye Irrit. 2; H319	
112-34-5	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether	1 - < 5 %
	203-961-6	603-096-00-8
	Eye Irrit. 2; H319	
111-77-3	2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether	1 - < 5 %
	203-906-6	603-107-00-6
	Repr. 2; H361	

#### Further Information

Specific concentration limit (SCL):  
CAS No. 143-22-6:  
Serious eye damage, Category 1 H318:  $\geq 30\%$   
Eye irritation, Category 2 H319:  $20 - < 30\%$

CAS No. 9004-77-7  
Eye irritation, Category 2 H319:  $\geq 20\%$

## 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.

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### 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.

After 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 (CO<sub>2</sub>).  
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 (CO<sub>2</sub>), 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

Provide adequate ventilation. Do not breathe gas/vapour/aerosol. Use personal protection equipment. Evacuate area. Remove persons to safety. Special danger of slipping by leaking/spilling product.

### 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

Absorb with liquid-binding material (e.g. 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.

### 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

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### 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.

### 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: 18 - 23 °C

### 7.3. Specific end use(s)

Hydraulic (functional) fluids

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	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

### 8.2. Exposure controls



#### Appropriate engineering controls

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

#### Protective and hygiene measures

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. Avoid contact with skin, eyes and clothes. Do not breathe gas/vapour/aerosol.

#### Eye/face protection

Wear eye protection/face protection. Eye glasses with side protection

#### Hand protection

Tested protective gloves must be worn:

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

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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

Use of protective clothing.

### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

### 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
Colour:	amber
Odour:	characteristic
Odour threshold:	not applicable
pH-Value:	7 - 10,5

### Changes in the physical state

Melting point:	< -50 °C
Boiling point or initial boiling point and boiling range:	> 210 °C
Flash point:	> 100 °C

### Flammability

Solid:	> 280 °C
Gas:	not applicable

### Explosive properties

The product is not: Explosive.

Lower explosion limits:	not determined
Upper explosion limits:	not determined
Auto-ignition temperature:	not determined

### Self-ignition temperature

Solid:	not applicable
Gas:	not applicable

Decomposition temperature:	300 °C
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### Oxidizing properties

The product is not: oxidising.

Vapour pressure: (at 20 °C)	1,0 hPa
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Density:	1,01 - 1,06 g/cm <sup>3</sup>
Water solubility:	miscible

### Solubility in other solvents

not determined

Partition coefficient n-octanol/water:	1,50
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Viscosity / dynamic:	not determined
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Viscosity / kinematic: (at 20 °C)	5 - 10 mm <sup>2</sup> /s
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Relative vapour density: not determined  
Evaporation rate: (n-butyl acetate=100) 0,01

### 9.2. Other 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 products

In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO<sub>2</sub>), Pyrolysis products, toxic.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity

May be harmful in contact with skin.

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

#### ATEmix tested

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

CAS No	Chemical name
	Exposure route      Dose      Species      Source      Method
111-46-6	2,2'-oxybisethanol; diethylene glycol
	oral      ATE      500 mg/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 or the unborn child. (Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate; 2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether)

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.

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### **STOT-repeated exposure**

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

### **Aspiration hazard**

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

### **Practical experience**

### **Other observations**

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**

not applicable.

### **12.6. Other adverse effects**

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

### **UN Recommendations on the Transport of Dangerous Goods - Model Regulations**

**14.1. UN 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:** 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:** 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.

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**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. Transport in bulk according to Annex II of Marpol and the IBC Code**

not applicable

## SECTION 15: Regulatory information

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

#### **National regulatory 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

### **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  
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



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### 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.

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