according to Regulation (EC) No 1907/2006

Textar Brake Fluid DOT 3

Revision date: 28.02.2024

Page 1 of 11

TEXTA

BRAKE TECHNOLOGY

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

PC-TEC-8: Hydraulic fluids, including brake and transmission 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	GIZ Bonn: +49 (0)228-19240 (24/7)	
number:		

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Eye Irrit. 2; H319 Repr. 2; H361fd

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Hazard components for labelling

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

Signal word:

Pictograms:



Hazard statements

H319 H361fd 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 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.

according to Regulation (EC) No 1907/2006

Textar Brake Fluid DOT 3

Revision date: 28.02.2024

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				
	EC No	Index No	REACH No		
	Classification (Regulation	on (EC) No 1272/2008)	·		
143-22-6	2-[2-(2-butoxyethoxy)etl glycol	noxy]ethanol; TEGBE; triethylene g	lycol monobutylether; butoxytriethylene	25 - < 30 %	
	205-592-6	603-183-00-0	01-2119475107-38		
	Eye Dam. 1; H318	-			
30989-05-0	Tris[2-[2-(2-methoxyetho	oxy)ethoxy]ethyl] orthoborate		15 - 25 %	
	250-418-4		01-2119462824-33		
	Repr. 2; H361fd		·		
111-46-6	2,2'-oxybisethanol; dieth	10 - 15 %			
	203-872-2	603-140-00-6	01-2119457857-21		
	Acute Tox. 4; H302				
1559-34-8	3,6,9,12-tetraoxahexade	ecan-1-ol		5 - 10 %	
	216-322-1				
	Eye Irrit. 2; H319				
112-34-5	2-(2-butoxyethoxy)ethar	nol; diethylene glycol monobutyl etl	ner	1 - 3 %	
	203-961-6	603-096-00-8	01-2119475104-44		
	Eye Irrit. 2; H319		·		
111-77-3	2-(2-methoxyethoxy)eth	anol; diethylene glycol monomethy	l 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.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Con	c. 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; H3	60D: >= 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.



Page 2 of 11

according to Regulation (EC) No 1907/2006

Textar Brake Fluid DOT 3

Revision date: 28.02.2024

Page 3 of 11

TEXTA

BRAKE TECHNOLOGY

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 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

according to Regulation (EC) No 1907/2006

Textar Brake Fluid DOT 3

Revision date: 28.02.2024

Page 4 of 11

TEXTA

BRAKE TECHNOLOGY

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

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

Occupational exposure limits

CAS No	Substance	ppm	mg/m³	fib/cm³	Category	Origin
112-34-5	2-(2-Butoxyethoxy)ethanol	10	67.5		TWA (8 h)	
		15	101.2		STEL (15 min)	
111-77-3	2-(2-Methoxyethoxy)ethanol	10	50.1		TWA (8 h)	
111-46-6	Diethylene glycol	23	100		TWA (8 h)	

according to Regulation (EC) No 1907/2006

Textar Brake Fluid DOT 3

Revision date: 28.02.2024

Page 5 of 11

TEXTAR

BRAKE TECHNOLOGY

DNEL/DMEL values

CAS No	Substance				
DNEL type		Exposure route	Effect	Value	
143-22-6	2-[2-(2-butoxyethoxy)ethoxy]ethanol; TEGBE; triethylene	e glycol monobutylethe	er; butoxytriethylene g	lycol	
Worker DNEL,	, long-term	dermal	systemic	50 mg/kg bw/day	
Worker DNEL,	, long-term	inhalation	systemic	195 mg/m³	
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/m³	
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/m³	
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/m³	
111-77-3	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	
PNEC values	S	•			

CAS No	Substance				
Environment	al compartment	Value			
143-22-6	2-[2-(2-butoxyethoxy)ethoxy]ethanol; TEGBE; triethylene glycol monobutylether; butoxytriet	hylene glycol			
Micro-organi	sms 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	1-46-6 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-organi	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 exhaustion 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.

according to Regulation (EC) No 1907/2006

Textar Brake Fluid DOT 3

Revision date: 28.02.2024

Page 6 of 11

TEXTA

BRAKE TECHNOLOGY

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
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 mm²/s
Water solubility:	easily soluble
Solubility in other solvents not determined	
Partition coefficient n-octanol/water:	1,50
Vapour pressure:	1,0 hPa
(at 20 °C)	
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

according to Regulation (EC) No 1907/2006

Textar Brake Fluid DOT 3

Revision date: 28.02.2024

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 (EC) No 1272/2008

Acute toxicity

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

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 5	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.



Page 7 of 11

according to Regulation (EC) No 1907/2006

Textar Brake Fluid DOT 3

Revision date: 28.02.2024

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

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:

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): 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:

14.6. Special precautions for user

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. No dangerous good in sense of this transport regulation.

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No



Page 8 of 11

according to Regulation (EC) No 1907/2006

Textar Brake Fluid DOT 3

Revision date: 28.02.2024

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 XV Entry 3, Entry 30, Entry 54, Entry 55	,
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 rec	gulations!
15.2. Chemical safety assessment	

Chamical a faty account for substances in this w

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.



Page 9 of 11

according to Regulation (EC) No 1907/2006

Textar Brake Fluid DOT 3

Revision date: 28.02.2024

Page 10 of 11

BRAKE TECHNOLOGY

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)

Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

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.

11002	Hammarn owallowed.
H318	Causes serious eye damage.

according to Regulation (EC) No 1907/2006

Textar Brake Fluid DOT 3

Revision date: 28.02.2024

Page 11 of 11

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.)

