



High Performance Brake-Fluid DOT 4

Safety Data Sheet

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Issue date: 04/07/2024 Revision date: 04/07/2024 Version: 1.00

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

1.1. Product identifier

Product form : Mixture
Trade name : High Performance Brake-Fluid DOT 4
UFI : 43JM-SCVF-4117-PMC7
Product code : 930007, 930008

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Intended for general public
Main use category : Industrial use, Professional use, Consumer use
Use of the substance/mixture : Brake fluid

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Manufacturer/Supplier
Custom Chrome Europe GmbH
Carl-von-Ossietzky-Straße 8
D-55459 Grolsheim

Email competent person
sds@kft.de

Telefon: +49 6721 4007-0 (Zentrale 09:00 - 18:00 Uhr)
Email: info@customchrome.de

Contact for request of safety data sheets: products@customchrome.de

1.4. Emergency telephone number

Emergency number : GIZ-Nord, Göttingen
Germany
+49 551 19240

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Reproductive toxicity, Category 2 H361fd
Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

Suspected of damaging fertility or the unborn child.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS08

Signal word (CLP) : Warning
Contains : Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate
Hazard statements (CLP) : H361fd - Suspected of damaging fertility. Suspected of damaging the unborn child.
Precautionary statements (CLP) : P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.
P201 - Obtain special instructions before use.

High Performance Brake-Fluid DOT 4

Safety Data Sheet

This safety data sheet is for informational purposes only and does not fully comply with national legal requirements. The national distributor is responsible for a legally compliant safety data sheet.

	P280 - Wear protective gloves, protective clothing, eye protection, face protection. P405 - Store locked up. P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
EUH-statements	: EUH208 - Contains Dihydro-3-(tetrapropenyl)furan-2,5-dione. May produce an allergic reaction.
Child-resistant fastening	: Not applicable
Tactile warning	: Applicable

2.3. Other hazards

Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate (30989-05-0), 2-[2-(2-butoxyethoxy)ethoxy]ethanol; TEGBE; triethylene glycol monobutylether; butoxytriethylene glycol (143-22-6), diethylene glycol (111-46-6), 2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether (111-77-3), Dihydro-3-(tetrapropenyl)furan-2,5-dione (26544-38-7)(¹)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate (30989-05-0), 2-[2-(2-butoxyethoxy)ethoxy]ethanol; TEGBE; triethylene glycol monobutylether; butoxytriethylene glycol (143-22-6), diethylene glycol (111-46-6), 2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether (111-77-3), Dihydro-3-(tetrapropenyl)furan-2,5-dione (26544-38-7)(¹)

(¹) Substance(s) in concentration below 0.1 % and displayed on a voluntary basis

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

Component	
Substance(s) not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605	Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate (30989-05-0), 2-[2-(2-butoxyethoxy)ethoxy]ethanol; TEGBE; triethylene glycol monobutylether; butoxytriethylene glycol (143-22-6), diethylene glycol (111-46-6), 2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether (111-77-3), Dihydro-3-(tetrapropenyl)furan-2,5-dione (26544-38-7)(¹)

(¹) Substance(s) in concentration below 0.1 % and displayed on a voluntary basis

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate	CAS-No.: 30989-05-0 EC-No.: 250-418-4	35 - 50	Repr. 2, H361fd
2-[2-(2-butoxyethoxy)ethoxy]ethanol; TEGBE; triethylene glycol monobutylether; butoxytriethylene glycol	CAS-No.: 143-22-6 EC-No.: 205-592-6 EC Index-No.: 603-183-00-0	10 - 25	Eye Dam. 1, H318

High Performance Brake-Fluid DOT 4

Safety Data Sheet

This safety data sheet is for informational purposes only and does not fully comply with national legal requirements. The national distributor is responsible for a legally compliant safety data sheet.

diethylene glycol	CAS-No.: 111-46-6 EC-No.: 203-872-2 EC Index-No.: 603-140-00-6	5 - 10	Acute Tox. 4 (Oral), H302 (ATE=1120 mg/kg bodyweight)
2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether substance with a Community workplace exposure limit	CAS-No.: 111-77-3 EC-No.: 203-906-6 EC Index-No.: 603-107-00-6	1 - 3	Repr. 1B, H360D
Dihydro-3-(tetrapropenyl)furan-2,5-dione	CAS-No.: 26544-38-7 EC-No.: 247-781-6 REACH-no: 01-2119979080-37-xxxx	< 0.1	Eye Irrit. 2, H319 Skin Sens. 1A, H317 Aquatic Chronic 4, H413

Specific concentration limits:

Name	Product identifier	Specific concentration limits (%)
2-[2-(2-butoxyethoxy)ethoxy]ethanol; TEGBE; triethylene glycol monobutylether; butoxytriethylene glycol	CAS-No.: 143-22-6 EC-No.: 205-592-6 EC Index-No.: 603-183-00-0	(20 ≤ C < 30) Eye Irrit. 2, H319 (30 ≤ C ≤ 100) Eye Dam. 1, H318
2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether	CAS-No.: 111-77-3 EC-No.: 203-906-6 EC Index-No.: 603-107-00-6	(3 ≤ C ≤ 100) Repr. 1B, H360D

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

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects after skin contact	: May cause an allergic skin reaction.
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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	: Use extinguishing media appropriate for surrounding fire. Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media	: Strong water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire	: Toxic fumes may be released. Carbonmonoxide. Carbon dioxide.
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5.3. Advice for firefighters

Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Other information	: Do not allow run-off from fire fighting to enter drains or water courses. Disposal must be done according to official regulations.

High Performance Brake-Fluid DOT 4

Safety Data Sheet

This safety data sheet is for informational purposes only and does not fully comply with national legal requirements. The national distributor is responsible for a legally compliant safety data sheet.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid sub-soil penetration. Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal. Notify authorities if product enters sewers or public waters.

Other information : Disposal must be done according to official regulations.

6.4. Reference to other sections

Information for safe handling. See section 7. Concerning personal protective equipment to use, see section 8. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Store in tightly closed, leak-proof containers.

Storage conditions : Store in a well-ventilated place. Keep cool. Store locked up.

Incompatible products : Acids. Strong oxidizers.

Maximum storage period : 2 year(s)

Storage temperature : < 40 °C

Information about storage in one common storage facility : Keep away from food, drink and animal feeding stuffs. Keep away from : Acids, oxidizing materials.

7.3. Specific end use(s)

Brake fluid.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether (111-77-3)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	2-(2-Methoxyethoxy)ethanol
IOEL TWA	50.1 mg/m ³
	10 ppm
Remark	Skin

High Performance Brake-Fluid DOT 4

Safety Data Sheet

This safety data sheet is for informational purposes only and does not fully comply with national legal requirements. The national distributor is responsible for a legally compliant safety data sheet.

Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC
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8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate (30989-05-0)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	4.2 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	14.8 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	1.5 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	2.6 mg/m ³
Long-term - systemic effects, dermal	1.5 mg/kg bodyweight/day
2-[2-(2-butoxyethoxy)ethoxy]ethanol; TEGBE; triethylene glycol monobutylether; butoxytriethylene glycol (143-22-6)	
PNEC (Water)	
PNEC aqua (freshwater)	2 mg/l
PNEC aqua (marine water)	0.2 mg/l
PNEC aqua (intermittent, freshwater)	8.4 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	7.7 mg/kg dwt
PNEC sediment (marine water)	0.77 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.47 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	200 mg/l
diethylene glycol (111-46-6)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	43 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	44 mg/m ³
Long-term - local effects, inhalation	60 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, inhalation	12 mg/m ³
Long-term - systemic effects, dermal	21 mg/kg bodyweight/day
Long-term - local effects, inhalation	12 mg/m ³
2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether (111-77-3)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	2.22 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	50.1 mg/m ³

High Performance Brake-Fluid DOT 4

Safety Data Sheet

This safety data sheet is for informational purposes only and does not fully comply with national legal requirements. The national distributor is responsible for a legally compliant safety data sheet.

DNEL/DMEL (General population)	
Long-term - systemic effects, oral	7.5 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	30.1 mg/m ³
Long-term - systemic effects, dermal	1.33 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	12 mg/l
PNEC aqua (marine water)	1.2 mg/l
PNEC aqua (intermittent, freshwater)	12 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	44.4 mg/kg dwt
PNEC sediment (marine water)	0.44 mg/kg dwt
PNEC (Soil)	
PNEC soil	2.1 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	90 mg/kg food
PNEC (STP)	
PNEC sewage treatment plant	10000 mg/l
Dihydro-3-(tetrapropenyl)furan-2,5-dione (26544-38-7)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	0.33 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0.02 mg/l
PNEC aqua (intermittent, freshwater)	0.002 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	1.7 mg/kg dwt
PNEC sediment (marine water)	0.17 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.2 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	10 mg/l

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

8.2.2.1. Eye and face protection

Eye protection:

Use splash goggles when eye contact due to splashing is possible. ISO 16321-1

High Performance Brake-Fluid DOT 4

Safety Data Sheet

This safety data sheet is for informational purposes only and does not fully comply with national legal requirements. The national distributor is responsible for a legally compliant safety data sheet.

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing. EN ISO 13688. EN 13034

Hand protection:

Chemically resistant protective gloves. ISO 374-1. Nitrile rubber. Butyl rubber. Polyvinylchloride (PVC). Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer. Gloves must be replaced after each use and whenever signs of wear or perforation appear

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Breathing apparatus with filter. A-P2. EN 143. . Breathing equipment is only to be used in order to handle the residual risk of short term jobs if all other risk minimizing measures have been carried out e.g. retention and/or local exhaust

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

Other information:

Do not eat, drink or smoke when using this product. Avoid contact with skin and eyes. Always wash hands after handling the product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Yellow.
Appearance	: Oily.
Odour	: characteristic.
Odour threshold	: Not available
Melting point	: ≤ -50 °C (ASTM D 97)
Freezing point	: Not available
Boiling point	: > 260 °C
Flammability	: Not available
Explosive properties	: Product is not explosive.
Oxidising properties	: Non oxidizing.
Lower explosion limit	: 0.6 vol %
Upper explosion limit	: 7 vol %
Flash point	: > 120 °C (ASTM D 93)
Auto-ignition temperature	: > 300 °C
Decomposition temperature	: > 300 °C
pH	: 7 – 10.5
Viscosity, kinematic	: 10 – 20 mm ² /s (40°C, ASTM D 445)
Solubility	: Soluble in water.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Partition coefficient n-octanol/water (Log Pow)	: < 2
Vapour pressure	: < 0.2 hPa (20°C)
Vapour pressure at 50°C	: Not available
Density	: 1.03 – 1.06 g/cm ³ (ASTM D 4052)
Relative density	: Not available
Relative vapour density at 20°C	: > 1
Particle characteristics	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

High Performance Brake-Fluid DOT 4

Safety Data Sheet

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9.2.2. Other safety characteristics

VOC content : < 1.15 %

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

Strong oxidizing agent. Acids.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

High Performance Brake-Fluid DOT 4	
ATE CLP (oral)	> 5000 mg/kg bodyweight

diethylene glycol (111-46-6)	
LD50 oral rat	16500 mg/kg bodyweight
LD50 oral	1120 mg/kg bodyweight (Experience with humans, Accident)

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)
pH: 7 – 10.5
Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)
pH: 7 – 10.5
Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)
Additional information : May cause sensitisation of susceptible persons
Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity : Suspected of damaging fertility. Suspected of damaging the unborn child.

diethylene glycol (111-46-6)	
NOAEL (animal/male, F0/P)	1000 mg/kg bodyweight/day (rabbit; (OECD 414 method))
NOAEL (animal/female, F0/P)	1000 mg/kg bodyweight/day (rabbit; (OECD 414 method))

2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether (111-77-3)	
NOAEL, oral, rat	= 200 mg/kg bw/day
NOAEL, Dermal, rabbit	= 50 mg/kg bw/day

STOT-single exposure : Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)

High Performance Brake-Fluid DOT 4

Safety Data Sheet

This safety data sheet is for informational purposes only and does not fully comply with national legal requirements. The national distributor is responsible for a legally compliant safety data sheet.

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

High Performance Brake-Fluid DOT 4	
Viscosity, kinematic	10 – 20 mm ² /s (40°C, ASTM D 445)

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified (Based on available data, the classification criteria are not met)

Hazardous to the aquatic environment, long-term (chronic) : Not classified (Based on available data, the classification criteria are not met)

12.2. Persistence and degradability

High Performance Brake-Fluid DOT 4	
Persistence and degradability	The product has not been tested.

12.3. Bioaccumulative potential

High Performance Brake-Fluid DOT 4	
Partition coefficient n-octanol/water (Log Pow)	< 2

2-[2-(2-butoxyethoxy)ethoxy]ethanol; TEGBE; triethylene glycol monobutylether; butoxytriethylene glycol (143-22-6)

Partition coefficient n-octanol/water (Log Kow)	0.51
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diethylene glycol (111-46-6)

BCF - Fish [1]	100 l/kg (3 d; Leuciscus idus melanotus)
Partition coefficient n-octanol/water (Log Pow)	-1.98 (calculated value)
Bioaccumulative potential	Bioaccumulation is not expected to occur.

2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether (111-77-3)

Partition coefficient n-octanol/water (Log Pow)	-0.47 (20 °C; pH 6,7; (OECD 117 method))
Bioaccumulative potential	Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.

Dihydro-3-(tetrapropenyl)furan-2,5-dione (26544-38-7)

Partition coefficient n-octanol/water (Log Pow)	≥ 4.39 (22°C)
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12.4. Mobility in soil

diethylene glycol (111-46-6)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0 (25 °C; Quantitative structure-activity relationship (QSAR))

12.5. Results of PBT and vPvB assessment

Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate (30989-05-0), 2-[2-(2-butoxyethoxy)ethoxy]ethanol; TEGBE; triethylene glycol monobutylether; butoxytriethylene glycol (143-22-6), diethylene glycol (111-46-6), 2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether (111-77-3), Dihydro-3-(tetrapropenyl)furan-2,5-dione (26544-38-7)(¹)

High Performance Brake-Fluid DOT 4

Safety Data Sheet

This safety data sheet is for informational purposes only and does not fully comply with national legal requirements. The national distributor is responsible for a legally compliant safety data sheet.

Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate (30989-05-0), 2-[2-(2-butoxyethoxy)ethoxy]ethanol; TEGBE; triethylene glycol monobutylether; butoxytriethylene glycol (143-22-6), diethylene glycol (111-46-6), 2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether (111-77-3), Dihydro-3-(tetrapropenyl)furan-2,5-dione (26544-38-7) ⁽¹⁾
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⁽¹⁾ Substance(s) in concentration below 0.1 % and displayed on a voluntary basis

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods	: Disposal must be done according to official regulations. European waste catalogue. Do not discharge into drains or the environment. Do not dispose of with domestic waste.
Product/Packaging disposal recommendations	: Recycle or dispose of in compliance with current legislation.
European List of Waste (LoW, EC 2000/532)	: 16 01 13* - brake fluids
HP Code	: HP4 - "Irritant – skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
Not regulated for transport				
14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport

Not regulated

High Performance Brake-Fluid DOT 4

Safety Data Sheet

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Rail transport

Not regulated

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

15.1.1. EU-Regulations

Other information, restriction and prohibition regulations : Take note of Directive 94/33/EC on the protection of young people at work. Take note of Directive 92/85/EC on the safety and health of pregnant workers at work.

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)	
Reference code	Applicable on
3(b)	High Performance Brake-Fluid DOT 4 ; Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate ; 2-[2-(2-butoxyethoxy)ethoxy]ethanol; TEGBE; triethylene glycol monobutylether; butoxytriethylene glycol ; diethylene glycol ; 2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether ; Dihydro-3-(tetrapropenyl)furan-2,5-dione
3(c)	Dihydro-3-(tetrapropenyl)furan-2,5-dione
54.	2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

VOC Directive (2004/42)

VOC content : < 1.15 %

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

High Performance Brake-Fluid DOT 4

Safety Data Sheet

This safety data sheet is for informational purposes only and does not fully comply with national legal requirements. The national distributor is responsible for a legally compliant safety data sheet.

SECTION 16: Other information

Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CAS-No.	Chemical Abstract Service number
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
EC-No.	European Community number
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
TLM	Median Tolerance Limit
vPvB	Very Persistent and Very Bioaccumulative

Data sources : Information provided by the manufacturer. European Chemicals Agency, <http://echa.europa.eu/>.

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High Performance Brake-Fluid DOT 4

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Full text of H- and EUH-statements:	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 4	Hazardous to the aquatic environment – Chronic Hazard, Category 4
EUH208	Contains Dihydro-3-(tetrapropenyl)furan-2,5-dione. May produce an allergic reaction.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
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.
H413	May cause long lasting harmful effects to aquatic life.
Repr. 1B	Reproductive toxicity, Category 1B
Repr. 2	Reproductive toxicity, Category 2
Skin Sens. 1A	Skin sensitisation, category 1A

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Repr. 2	H361fd	Calculation method

KFT SDS EU 00 - Version 23.2

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.