

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### HIGHTEC Brake Fluid DOT 4

Revision: 02.02.2026

Product code: 25101

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

##### 1.1. Product identifier

HIGHTEC Brake Fluid DOT 4

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

###### Use of the substance/mixture

Brake fluid

##### 1.3. Details of the supplier of the safety data sheet

Company name:	ROWE Mineralölwerk GmbH	
Street:	Langgewann 101	
Place:	D-67547 Worms	
Telephone:	+49 (0)6241 5906-0	Telefax: +49 (0)6241 5906-999
E-mail:	info@rowe-oil.com	
Contact person:	Product Compliance	
E-mail:	sdb@rowe-oil.com	
Internet:	www.rowe-oil.com	

##### 1.4. Emergency telephone number:

Ireland: Public (8am-10pm) +353 180 921 66, Healthcare Professionals +353 1809 2566 other Countries: Emergency CONTACT (24-Hour-Number): GBK GmbH +49 (0)6132-84463

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008  
Repr. 2; H361d

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

Signal word: Warning

Pictograms:



###### Hazard statements

H361d 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.
P501	Dispose of contents/container to of the disposal according to local regulations.

##### 2.3. Other hazards

No information available.

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**SECTION 3: Composition/information on ingredients**
**3.2. Mixtures**
**Relevant ingredients**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
30989-05-0	Tris [2- [2- (2-methoxyethoxy) ethoxy] ethyl] orthoborate			30 - < 60 %
	250-418-4		01-2119462824-33	
	Repr. 2; H361d			
	Reaction mass of 2- (2- (2-butoxyethoxy) ethoxy) ethanol and 3,6,9,12-tetraoxahexadecan-1-ol (CAS 143-22-6 & 1559-34-8)			5 - < 15 %
	907-996-4		01-2119531322-53	
	Eye Dam. 1; H318 EUH066			
111-46-6	2,2'-oxybisethanol; diethylene glycol			5 - < 15 %
	203-872-2	603-140-00-6	01-2119457857-21	
	Acute Tox. 4; H302			
110-97-4	1,1'-iminodipropan-2-ol; di-isopropanolamine			1 - < 2.5 %
	203-820-9	603-083-00-7	01-2119475444-34	
	Eye Irrit. 2; H319			

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		
30989-05-0	250-418-4	Tris [2- [2- (2-methoxyethoxy) ethoxy] ethyl] orthoborate	30 - < 60 %
	oral: LD50 = > 5000 mg/kg		
	907-996-4	Reaction mass of 2- (2- (2-butoxyethoxy) ethoxy) ethanol and 3,6,9,12-tetraoxahexadecan-1-ol (CAS 143-22-6 & 1559-34-8)	5 - < 15 %
	dermal: LD50 = 3540 mg/kg; oral: LD50 = > 5000 mg/kg Eye Dam. 1; H318: >= 30 - 100 Eye Irrit. 2; H319: >= 20 - < 30		
111-46-6	203-872-2	2,2'-oxybisethanol; diethylene glycol	5 - < 15 %
	dermal: LD50 = 11890 mg/kg; oral: ATE = 500 mg/kg		
110-97-4	203-820-9	1,1'-iminodipropan-2-ol; di-isopropanolamine	1 - < 2.5 %
	oral: LD50 = 4765 mg/kg		

**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.

**After inhalation**

Provide fresh air. If experiencing respiratory symptoms: Call a doctor.

**After contact with skin**

Take off contaminated clothing and wash it before reuse. After contact with skin, wash immediately with plenty of water and soap. In case of skin reactions, consult a physician.

**After contact with eyes**

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

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**After ingestion**

Observe risk of aspiration if vomiting occurs. If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

**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 spray jet. alcohol resistant foam. Carbon dioxide (CO<sub>2</sub>).  
Co-ordinate fire-fighting measures to the fire surroundings.

**5.2. Special hazards arising from the substance or mixture**

Combustible. Non-flammable.

In case of fire may be liberated: Carbon monoxide (CO), 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**

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**

Remove all sources of ignition. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes.

**For non-emergency personnel**

Provide adequate ventilation. Use personal protection equipment. Remove persons to safety.

**For emergency responders**

Wear personal protection equipment (refer to section 8).

**6.2. Environmental precautions**

Do not allow uncontrolled discharge of product into the environment.

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

Prevent spread over a wide area (e.g. by containment or oil barriers). Cover drains. Stop leak if safe to do so.

**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.

**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**

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**Advice on safe handling**

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with eyes and skin. Use 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 before breaks and after work. 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. Store in a dry place.

**Hints on joint storage**

Do not store together with: Oxidizing agent, Reducing agent, Strong acid, Strong alkali.

**Further information on storage conditions**

Keep away from heat.  
maximum storage temperature: 80 °C

**7.3. Specific end use(s)**

Brake fluid

**SECTION 8: Exposure controls/personal protection**
**8.1. Control parameters**
**Occupational exposure limits**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fib/cm <sup>3</sup>	Category	Origin
111-46-6	2,2'-Oxydiethanol	23	100		TWA (8 h)	
111-46-6	Diethylene glycol	23	100		TWA (8 h)	

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**DNEL/DMEL values**

CAS No	Substance	Exposure route	Effect	Value
30989-05-0	Tris [2- [2- (2-methoxyethoxy) ethoxy] ethyl] orthoborate			
Worker DNEL, long-term		inhalation	systemic	29,1 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	8,3 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	7,2 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	4,1 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	4,1 mg/kg bw/day
	Reaction mass of 2- (2- (2-butoxyethoxy) ethoxy) ethanol and 3,6,9,12-tetraoxahexadecan-1-ol (CAS 143-22-6 & 1559-34-8)			
Worker DNEL, long-term		inhalation	systemic	195 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	208 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	117 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	125 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	12,5 mg/kg bw/day
111-46-6	2,2'-oxybisethanol; diethylene glycol			
Worker DNEL, long-term		inhalation	systemic	44 mg/m <sup>3</sup>
Worker DNEL, long-term		inhalation	local	60 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	43 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	12 mg/m <sup>3</sup>
Consumer DNEL, long-term		inhalation	local	12 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	21 mg/kg bw/day
110-97-4	1,1'-iminodipropan-2-ol; di-isopropanolamine			
Worker DNEL, long-term		inhalation	systemic	6,4 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	5 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	3,9 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	6,3 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	1,3 mg/kg bw/day

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**PNEC values**

CAS No	Substance	Value
Environmental compartment		
30989-05-0	Tris [2- [2- (2-methoxyethoxy) ethoxy] ethyl] orthoborate	
Freshwater		0,211 mg/l
Freshwater (intermittent releases)		2,112 mg/l
Marine water		0,021 mg/l
Freshwater sediment		0,76 mg/kg
Marine sediment		0,076 mg/kg
Micro-organisms in sewage treatment plants (STP)		100 mg/l
Soil		0,028 mg/kg
Reaction mass of 2- (2- (2-butoxyethoxy) ethoxy) ethanol and 3,6,9,12-tetraoxahexadecan-1-ol (CAS 143-22-6 & 1559-34-8)		
Freshwater		2 mg/l
Freshwater (intermittent releases)		18 mg/l
Marine water		0,2 mg/l
Freshwater sediment		6,6 mg/kg
Marine sediment		0,66 mg/kg
Secondary poisoning		111 mg/kg
Micro-organisms in sewage treatment plants (STP)		500 mg/l
Soil		0,46 mg/kg
111-46-6	2,2'-oxybisethanol; diethylene glycol	
Freshwater		10 mg/l
Freshwater (intermittent releases)		10 mg/l
Marine water		1 mg/l
Freshwater sediment		20,9 mg/kg
Marine sediment		2,09 mg/kg
Micro-organisms in sewage treatment plants (STP)		199,5 mg/l
Soil		1,53 mg/kg
110-97-4	1,1'-iminodipropan-2-ol; di-isopropanolamine	
Freshwater		0,278 mg/l
Freshwater (intermittent releases)		2,777 mg/l
Marine water		0,028 mg/l
Freshwater sediment		2,33 mg/kg
Marine sediment		0,233 mg/kg
Micro-organisms in sewage treatment plants (STP)		15000 mg/l
Soil		0,303 mg/kg

**8.2. Exposure controls**

**Appropriate engineering controls**

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

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#### Individual protection measures, such as personal protective equipment

##### Eye/face protection

Wear eye protection/face protection. (EN 166)

##### Hand protection

Tested protective gloves must be worn (EN ISO 374)

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

Avoid release to the environment.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	yellow
Odour:	characteristic
Odour threshold:	not determined

	Test method
Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	>260 °C FMVSS 116
Flammability:	Not readily combustible.
Lower explosion limits:	1,5 vol. %
Upper explosion limits:	not determined
Flash point:	>139 °C DIN EN ISO 2719
Auto-ignition temperature:	not determined DIN 51794
Decomposition temperature:	360 °C DSC
pH-Value (at 20 °C):	~ 8,5 FMVSS 116
Viscosity / kinematic: (at 20 °C)	~ 15-17 mm²/s FMVSS 116
Water solubility: (at 20 °C)	completely miscible
Solubility in other solvents	not determined
Partition coefficient n-octanol/water:	not applicable
Vapour pressure: (at 20 °C)	<1 hPa
Density (at 20 °C):	~ 1,06 g/cm³ DIN 51757
Relative vapour density:	not determined
Particle characteristics:	not relevant

#### 9.2. Other information

##### Information with regard to physical hazard classes

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Self-ignition temperature

Gas:

&gt;200 °C

**Other safety characteristics**

Pour point:

&lt; -70 °C

DIN 51583

**Further Information**

The product is hygroscopic.

**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 known hazardous reactions.

**10.4. Conditions to avoid**

none

**10.5. Incompatible materials**

Oxidizing agent, Reducing agent, Strong acid, Strong alkali.

**10.6. Hazardous decomposition products**In case of fire may be liberated: Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Pyrolysis products, toxic.**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity**

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

**ATEmix calculated**

ATE (oral) &gt; 5000 mg/kg; ATE (dermal) &gt; 2000 mg/kg; ATE (inhalation vapour) &gt; 20 mg/l; ATE (inhalation dust/mist) &gt; 5 mg/l

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
30989-05-0	Tris [2- [2- (2-methoxyethoxy) ethoxy] ethyl] orthoborate				
	oral	LD50 > 5000 mg/kg	Rat	ECHA	OECD Guideline 401
	Reaction mass of 2- (2- (2-butoxyethoxy) ethoxy) ethanol and 3,6,9,12-tetraoxahexadecan-1-ol (CAS 143-22-6 & 1559-34-8)				
	oral	LD50 > 5000 mg/kg	Rat	REACH Registration Dossier	OECD Guideline 401
	dermal	LD50 3540 mg/kg	Rabbit	Am Ind Hyg Ass J, 23, 95 (1962)	
111-46-6	2,2'-oxybisethanol; diethylene glycol				
	oral	ATE 500 mg/kg			
	dermal	LD50 11890 mg/kg	Rabbit		
110-97-4	1,1'-iminodipropan-2-ol; di-isopropanolamine				
	oral	LD50 4765 mg/kg	Rat		

**Irritation and corrosivity**

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

 Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.  
not determined

**Sensitising effects**

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

**Carcinogenic/mutagenic/toxic effects for reproduction**

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.

**Aspiration hazard**

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

**Information on likely routes of exposure**

Inhalation, oral, Skin contact, Eye contact.

**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**

No information available.

**Further information**

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP]. Special hazards arising from the substance or mixture!

**SECTION 12: Ecological information**
**12.1. Toxicity**

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

The product is not: Ecotoxic.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
30989-05-0	Tris [2- [2- (2-methoxyethoxy) ethoxy] ethyl] orthoborate					
	Acute fish toxicity	LC50 mg/l	100,3	96 h	Oncorhynchus mykiss	ECHA OECD Guideline 203
	Acute algae toxicity	ErC50 mg/l	> 224,4	72 h	Raphidocelis subcapitata	ECHA EU Method C.3
	Acute bacteria toxicity	EC50 mg/l ( )	> 1000	0,5 h	The inoculum of the activated sludge originated fr	ECHA OECD Guideline 209
	Reaction mass of 2- (2- (2-butoxyethoxy) ethoxy) ethanol and 3,6,9,12-tetraoxahexadecan-1-ol (CAS 143-22-6 & 1559-34-8)					
	Acute fish toxicity	LC50 mg/l	2200 - 4600	96 h	Leuciscus idus	ECHA
	Crustacea toxicity	NOEC mg/l	> 100	21 d	Daphnia magna	ECHA OECD Guideline 211
111-46-6	2,2'-oxybisethanol; diethylene glycol					
	Acute fish toxicity	LC50 mg/l	> 32000	96 h	Gambusia affinis	
110-97-4	1,1'-iminodipropan-2-ol; di-isopropanolamine					
	Acute fish toxicity	LC50 mg/l	> 1000- 2200	96 h	Leuciscus idus	

**12.2. Persistence and degradability**

The product has not been tested.

**12.3. Bioaccumulative potential**

The product has not been tested.

**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
30989-05-0	Tris [2- [2- (2-methoxyethoxy) ethoxy] ethyl] orthoborate	-0,62
	Reaction mass of 2- (2- (2-butoxyethoxy) ethoxy) ethanol and 3,6,9,12-tetraoxahexadecan-1-ol (CAS 143-22-6 & 1559-34-8)	0,51
111-46-6	2,2'-oxybisethanol; diethylene glycol	-1,98 (25°C)
110-97-4	1,1'-iminodipropan-2-ol; di-isopropanolamine	-0,82

**12.4. Mobility in soil**

The product has not been tested.

**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**

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#### Disposal recommendations

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

#### List of Wastes Code - residues/unused products

160113 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; end-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08); brake fluids; hazardous waste

#### List of Wastes Code - used product

160113 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; end-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08); brake fluids; hazardous waste

#### Contaminated packaging

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

## SECTION 14: Transport information

#### Land transport (ADR/RID)

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

#### Inland waterways transport (ADN)

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

#### Marine transport (IMDG)

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

#### Air transport (ICAO-TI/IATA-DGR)

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

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

#### 14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

#### 14.7. Maritime transport in bulk according to IMO instruments

No dangerous good in sense of this transport regulation.

## SECTION 15: Regulatory information

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

##### EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 75

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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**

Inventories for chemical substances

Switzerland: yes

**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): 4,5,6,7,8,10,13.

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**Abbreviations and acronyms**

Acute Tox. 4: Acute toxicity, hazard category 4  
 Eye Dam. 1: Serious eye damage, hazard category 1  
 Eye Irrit. 2: Eye irritation, hazard category 2  
 Repr. 2: Reproductive toxicity, hazard category 2  
 ADR: Accord européen sur le transport des marchandises dangereuses par Route  
 (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 IMDG: International Maritime Code for Dangerous Goods  
 IATA: International Air Transport Association  
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service  
 LC50: Lethal concentration, 50%  
 LD50: Lethal dose, 50%  
 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  
 DNEL: Derived No Effect Level  
 DMEL: Derived Minimal Effect Level  
 PNEC: Predicted No Effect Concentration  
 ATE: Acute toxicity estimate  
 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  
 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)  
 EmS: Emergency Schedules  
 MFAG: Medical First Aid Guide  
 ICAO: International Civil Aviation Organization  
 MARPOL: International Convention for the Prevention of Marine Pollution from Ships  
 IBC: Intermediate Bulk Container  
 SVHC: Substance of Very High Concern  
 For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety  
 assessment, chapter R.20 (Table of terms and abbreviations).

**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
Repr. 2; H361d	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.  
 H361d Suspected of damaging the unborn child.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**HIGHTEC Brake Fluid DOT 4**

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EUH066 Repeated exposure may cause skin dryness or cracking.

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