

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

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## Mabanol Brake Fluid DOT-4

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

#### 1.1. Product identifier

Trade name/designation:

Mabanol Brake Fluid DOT-4

Additional information:

UFI: PS00-E0UV-K00T-CCE4

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

Use of the substance/mixture:

brake fluids.

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

Supplier (manufacturer/importer/only representative/downstream user/distributor):

Mabanol GmbH & Co. KG

Koreastraße 7

20457 Hamburg

Germany

Telephone: 0049 (0) 40 36809988

E-mail: info@mabanol.com

Website: www.mabanol.com

#### 1.4. Emergency telephone number

Giftinformationszentrale Göttingen , 24h: 0049 (0) 551 1 92 40

### SECTION 2: Hazards identification

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

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
Reproductive toxicity (Repr. 2)	H361d: Suspected of damaging the unborn child.	
Serious eye damage/eye irritation (Eye Irrit. 2)	H319: Causes serious eye irritation.	

#### \* 2.2. Label elements

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

Hazard pictograms:



GHS07

Exclamation mark



GHS08

Health hazard

Signal word: Warning

Hazard components for labelling:

tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate; 2-(2-methoxyethoxy)ethanol; Butyltriglycol; 2,2'-oxydiethanol

hazard statements for health hazards

H319	Causes serious eye irritation.
H361d	Suspected of damaging the unborn child.

Supplemental hazard information: -

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### Precautionary Statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.

### Precautionary Statements Prevention

P264	Wash hands thoroughly after handling.
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### Precautionary Statements Response

P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/Emergency telephone number.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/attention.

### Precautionary Statements Disposal

P501	Dispose of contents/container to Dispose of waste according to applicable legislation..
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### Additional information:

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### 2.3. Other hazards

No data available

## SECTION 3: Composition / information on ingredients

### 3.2. Mixtures

#### Hazardous ingredients / Hazardous impurities / Stabilisers:

product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 143-22-6 EC No.: 205-592-6 REACH No.: 01-2119531322-53	<b>Butyltriglycol</b> Eye Dam. 1 <b>Danger</b> H318	20 - < 45 weight-%
CAS No.: 30989-05-0 EC No.: 250-418-4 REACH No.: 01-2119462824-33	<b>tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate</b> Repr. 2 H361d	20 - < 30 weight-%
CAS No.: 111-46-6 EC No.: 203-872-2 REACH No.: 01-2119457857-21	<b>2,2'-oxydiethanol</b> Acute Tox. 4 <b>Warning</b> H302	0 - < 10 weight-%
CAS No.: 9004-77-7 EC No.: 500-012-0	<b>Poly(oxy-1,2-ethanediyl), ?-butyl-?-hydroxy-</b> Eye Irrit. 2 H319	5 - < 10 weight-%
CAS No.: 111-77-3 EC No.: 203-906-6 REACH No.: 01-2119475100-52	<b>2-(2-methoxyethoxy)ethanol</b> Repr. 2 <b>Warning</b> H361d	0 - < 3 weight-%
CAS No.: 112-34-5 EC No.: 203-961-6 REACH No.: 01-2119475104-44	<b>2-(2-butoxyethoxy)ethanol</b> Eye Irrit. 2 <b>Warning</b> H319	0 - < 3 weight-%

Full text of H- and EUH-phrases: see section 16.

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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

**General information:**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

**Following inhalation:**

Provide fresh air. In case of respiratory tract irritation, consult a physician.

**In case of skin contact:**

After contact with skin, wash immediately with plenty of water and soap. If skin irritation or rash occurs: Get medical advice/attention.

**After eye contact:**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**After ingestion:**

Rinse mouth. Let water be drunk in little sips (dilution effect). Get medical advice/attention if you feel unwell.

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

Observe risk of aspiration if vomiting occurs.

#### 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:**

Foam. Extinguishing powder. Carbon dioxide (CO<sub>2</sub>). Use water spray jet to protect personnel and to cool endangered containers.

**Unsuitable extinguishing media:**

Full water jet.

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

In case of fire: Gases/vapours, toxic.

**Hazardous combustion products:**

In case of fire may be liberated: Nitrogen oxides (NO<sub>x</sub>). Carbon monoxide. Carbon dioxide (CO<sub>2</sub>).

#### 5.3. Advice for firefighters

Do not inhale explosion and combustion gases. Wear a self-contained breathing apparatus and chemical protective clothing.

#### 5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Co-ordinate fire-fighting measures to the fire surroundings.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

**Personal precautions:**

Remove persons to safety. Use personal protection equipment. Avoid contact with skin, eyes and clothes. Provide adequate ventilation. Remove all sources of ignition.

##### 6.1.2. For emergency responders

**Personal protection equipment:**

Personal protection equipment: see section 8.

#### 6.2. Environmental precautions

Cover drains. Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Make sure spills can be contained, e.g. in sump pallets or kerbed areas.

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### 6.3. Methods and material for containment and cleaning up

#### 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 contaminated articles and floor according to the environmental legislation.

### 6.4. Reference to other sections

Personal protection equipment: see section 8

Disposal: see section 13

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Protective measures

#### Advices on safe handling:

Wear personal protection equipment (refer to section 8). Avoid: generation/formation of aerosols. Generation/formation of mist.

#### Fire prevent measures:

Usual measures for fire prevention. Keep away from sources of ignition - No smoking.

#### Advices on general occupational hygiene

When using do not eat, drink or smoke. Avoid contact with eyes and skin. Wash hands before breaks and after work. Apply skin care products after work. Do not put any product-impregnated cleaning rags into your trouser pockets. Used working clothes should not be worn outside the work area. Wash contaminated clothing before reuse.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Technical measures and storage conditions:

Only use containers specifically approved for the substance/product. Keep container tightly closed in a cool, well-ventilated place.

#### Hints on storage assembly:

Keep away from: Oxidizing agent.

Do not store together with: Food and feedingstuffs.

#### Further information on storage conditions:

Temperature control required. Protect against: UV-radiation/sunlight. Keep container tightly closed.

### 7.3. Specific end use(s)

No data available

## SECTION 8: Exposure controls/personal protection

### \* 8.1. Control parameters

#### 8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① long-term occupational exposure limit value ② short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
TRGS 900 (DE)	2,2'-oxydiethanol CAS No.: 111-46-6	① 10 ppm (44 mg/m <sup>3</sup> ) ② 40 ppm (176 mg/m <sup>3</sup> ) ⑤ (Aerosol und Dampf)
TRGS 900 (DE)	2-(2-methoxyethoxy)ethanol CAS No.: 111-77-3	① 10 ppm (50 mg/m <sup>3</sup> ) ⑤ (Aerosol und Dampf, kann über die Haut aufgenommen werden)
IOELV (EU)	2-(2-methoxyethoxy)ethanol CAS No.: 111-77-3	① 10 ppm (50.1 mg/m <sup>3</sup> ) ⑤ (may be absorbed through the skin)

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Limit value type (country of origin)	Substance name	① long-term occupational exposure limit value ② short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
TRGS 900 (DE)	2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5	① 10 ppm (67 mg/m <sup>3</sup> ) ② 15 ppm (100.5 mg/m <sup>3</sup> ) ⑤ (Aerosol und Dampf)
IOELV (EU)	2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5	① 10 ppm (67.5 mg/m <sup>3</sup> ) ② 15 ppm (101.2 mg/m <sup>3</sup> )

### 8.1.2. Biological limit values

No data available

### 8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate CAS No.: 30989-05-0	29.1 mg/m <sup>3</sup>	① DNEL worker ② inhalative, long-term, systemic
tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate CAS No.: 30989-05-0	8.3 mg/kg bw/day	① DNEL worker ② dermal, long-term, systemic
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5	67.5 mg/m <sup>3</sup>	① DNEL worker ② inhalative, long-term, systemic
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5	20 mg/kg	① DNEL worker ② dermal, long-term, systemic

Substance name	PNEC Value	① PNEC type
tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate CAS No.: 30989-05-0	100 mg/l	① PNEC sewage treatment plant
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5	1 mg/l	① PNEC aquatic, freshwater
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5	0.1 mg/l	① PNEC aquatic, marine water
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5	200 mg/l	① PNEC sewage treatment plant
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5	4 mg/kg	① PNEC sediment, freshwater
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5	0.4 mg/kg	① PNEC sediment, marine water

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

Provide adequate ventilation.

#### 8.2.2. Personal protection equipment



#### Eye/face protection:

Eye glasses with side protection (DIN EN 166).

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### Skin protection:

Tested protective gloves must be worn (EN ISO 374).

Suitable material: NBR (Nitrile rubber), Neoprene, FKM (fluoro rubber). Breakthrough times and swelling properties of the material must be taken into consideration. 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.

Suitable protective clothing: flame-resistant.

### Respiratory protection:

Usually no personal respiratory protection necessary.

Respiratory protection necessary at: exceeding exposure limit values, aerosol or mist formation. Suitable respiratory protection apparatus: Filtering device (full mask or mouthpiece) with filter: A2, P2, A2/P2, ABEK.

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

### 8.2.3. Environmental exposure controls

No data available

## SECTION 9: Physical and chemical properties

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

#### Appearance

Physical state: Liquid

Colour: amber

Odour: not determined

#### Safety relevant basis data

parameter		at °C	Method	Remark
pH	7 - 10.5			
Melting point	< -50 °C			
Freezing point	not determined			
Initial boiling point and boiling range	> 260 °C			
Decomposition temperature	not determined			
Flash point	> 100 °C			
Evaporation rate	not determined			
Auto-ignition temperature	not determined			
Upper/lower flammability or explosive limits	not determined			
Vapour pressure	not determined			
Vapour density	not determined			
Density	1.02 - 1.07 g/cm <sup>3</sup>	20 °C		
Bulk density	not determined			
Water solubility	miscible			
Partition coefficient: n-octanol/water	1.5			
Dynamic viscosity	not determined			
Kinematic viscosity	5 - 10 cSt	20 °C		

### 9.2. Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No information available.

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### 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

No information available.

### 10.5. Incompatible materials

Oxidising agent, strong.

### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

CAS No.	Substance name	Toxicological information
111-46-6	2,2'-oxydiethanol	<b>LD<sub>50</sub> oral:</b> 12,565 mg/kg (Rat) <b>LD<sub>50</sub> dermal:</b> 11,890 mg/kg (Rabbit)
111-77-3	2-(2-methoxyethoxy)ethanol	<b>LD<sub>50</sub> oral:</b> 5,500 mg/kg (Rat) <b>LD<sub>50</sub> dermal:</b> 6,540 mg/kg (Rabbit)
112-34-5	2-(2-butoxyethoxy)ethanol	<b>LD<sub>50</sub> oral:</b> 3,384 mg/kg (Rat) <b>LD<sub>50</sub> dermal:</b> 2,764 mg/kg (Rabbit) <b>LC<sub>50</sub> Acute inhalation toxicity (vapour):</b> 3 mg/l 2 h (Rat)

#### Acute oral toxicity:

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

#### Acute dermal toxicity:

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

#### Acute inhalation toxicity:

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

#### Skin corrosion/irritation:

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

#### Serious eye damage/irritation:

Causes serious eye irritation.

#### Respiratory or skin sensitisation:

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

#### Germ cell mutagenicity:

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

#### Carcinogenicity:

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

#### Reproductive toxicity:

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.

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### Additional information:

Frequently or prolonged contact with skin may cause dermal irritation.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Additional ecotoxicological information:

Es liegen keine Informationen vor.

### \* 12.2. Persistence and degradability

#### Biodegradation:

Readily biodegradable (according to OECD criteria).

#### Additional information:

Technically correct releases of minimal concentrations to adapted biological sewage plants, will not disturb the biodegradability of activated sludge.

### 12.3. Bioaccumulative potential

#### Partition coefficient: n-octanol/water:

1.5

#### Accumulation / Evaluation:

No indication of bioaccumulation potential.

### 12.4. Mobility in soil

No information available.

### 12.5. Results of PBT and vPvB assessment

CAS No.	Substance name	Results of PBT and vPvB assessment
143-22-6	Butyltriglycol	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
111-46-6	2,2'-oxydiethanol	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
111-77-3	2-(2-methoxyethoxy)ethanol	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
112-34-5	2-(2-butoxyethoxy)ethanol	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
30989-05-0	tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
9004-77-7	Poly(oxy-1,2-ethanediyl), ?-butyl-?-hydroxy-	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### 12.6. Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

#### 13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

#### Waste code product:

16 01 13 *	brake fluids
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\*: Evidence for disposal must be provided.

#### Waste treatment options

##### Appropriate disposal / Product:

Consult the appropriate local waste disposal expert about waste disposal.



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### Appropriate disposal / Package:

Handle contaminated packages in the same way as the substance itself.

## SECTION 14: Transport information

No dangerous good in sense of these transport regulations.

### 14.1. UN-No.

not relevant

### 14.2. UN proper shipping name

not relevant

### 14.3. Transport hazard class(es)

not relevant

### 14.4. Packing group

not relevant

### 14.5. Environmental hazards

not relevant

### 14.6. Special precautions for user

not relevant

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not relevant.

## SECTION 15: Regulatory information

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

#### 15.1.1. EU legislation

##### Other regulations (EU):

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]: This product is not assigned to a hazard category.

Directive 2010/75/EU on industrial emissions: No information available.

Directive 2004/42/EC on the limitation of emissions of volatile organic compounds: No information available.

Observe in addition any national regulations!

#### 15.1.2. National regulations

##### [DE] National regulations

##### Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

##### Störfallverordnung

##### for substances contained in the product:

This product is not assigned to a hazard category.

##### Water hazard class (WGK)

##### WGK:

1 - schwach wassergefährdend

##### Remark:

Self-classification (mixture; calculation rule).

#### 15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

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### SECTION 16: Other information

#### 16.1. Indication of changes

2.2.	Label elements
3.2.	Mixtures
8.1.	Control parameters
9.1.	Information on basic physical and chemical properties
12.2.	Persistence and degradability
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 16.2. Abbreviations and acronyms

ACGIH: American Conference of Governmental Industrial Hygienists  
ADR: Accord européen sur le transport des marchandises dangereuses par Route (International Carriage of Dangerous Goods by Road)  
AwSV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen  
CAS: Chemical Abstracts Service  
DNEL: Derived No Effect Level  
IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)  
ICAO: International Civil Aviation Organization  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)  
LOAEL: Lowest observed adverse effect level  
LOAEC: Lowest observed adverse effect concentration  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
NIOSH: National Institute of Occupational Safety and Health  
NOAEL: No observed adverse effect level  
NOAEC: No observed adverse effect level  
NTP: National Toxicology Program  
N/A: not applicable  
OEL: Occupational Exposure limit (Arbeitsplatzgrenzwert)  
OSHA: Occupational Safety and Health Administration  
PEL: permissible exposure limit (Zulässiger Expositionsgrenzwert)  
PBT: persistent bioaccumulative toxic  
PNEC: predicted no effect concentration  
REL: Recommended exposure limit (Empfohlene Expositionsgrenze)  
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
SARA: Superfund Amendments and Reauthorization Act  
STEL: Short Term Exposure Limit (Kurzzeitgrenzwert) (15 min)  
SVHC: substance of very high concern  
TLV: Threshold Limit Values (Schwellwert Grenzwerte)  
TRGS: Technische Regeln für Gefahrstoffe  
TSCA: Toxic Substances Control Act  
TWA: Time Weighted Average (Zeitlich gewichteter Mittelwert) (8 h)  
VOC: Volatile Organic Compounds  
vPvB: very persistent and very bioaccumulative  
VwVwS: Verwaltungsvorschrift wassergefährdender Stoffe  
WGK: Wassergefährdungsklasse

#### 16.3. Key literature references and sources for data

No data available

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### 16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
Reproductive toxicity ( <i>Repr. 2</i> )	H361d: Suspected of damaging the unborn child.	
Serious eye damage/eye irritation ( <i>Eye Irrit. 2</i> )	H319: Causes serious eye irritation.	

### 16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements	
H302	Harmful if swallowed.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H361d	Suspected of damaging the unborn child.
H361d	Suspected of damaging the unborn child.

### 16.6. Training advice

No data available

### 16.7. Additional information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

\* Data changed compared with the previous version