

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 04/03/2020 Revision date: 29/03/2023 Supersedes: 14/10/2022 version: 6.8

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

1.1. Product identifier

Product form : Mixture

Trade name : MPM Brake Fluid DOT 5.1
UFI : HGYR-4MPC-6U10-1G37

Product code : 21000
Type of product : Brake fluids
Product group : Mixture

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

Relevant identified uses

Main use category : Professional use, Industrial use, Consumer use

Industrial/Professional use spec : Non-dispersive use

Used in closed systems

Use of the substance/mixture : Brake fluids

1.3. Details of the supplier of the safety data sheet

Manufacturer

MPM International Oil Company BV

Cyclotronweg 1

NL 2629 HN Delft, Zuid Holland

Nederland

T +31 (0)15 2514030 (08.00 - 17.00 GMT+1)

info@mpmoil.com, www.mpmoil.com

1.4. Emergency telephone number

Country/Area	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	

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 H361d

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

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP)



GUSUO

CLP Signal word : WARNING.

Contains : Methyl Triglycol Borate

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Hazard statements (CLP) : H361d - Suspected of damaging the unborn child.

Precautionary statements (CLP) : P280 - Wear protective gloves.

P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P501 - Dispose of contents/container in accordance with local and national regulations.

P102 - Keep out of reach of children.

2.3. Other hazards

The product does not meet the PBT and vPvB classification criteria

Contains no PBT and/or vPvB substances ≥ 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	Methyl Triglycol Borate (30989-05-0), Butyl Triglycol (143-22-6), Butyl Polyglycol (9004-77-7), 2-(2-Methoxyethoxy)ethanol (111-77-3)	
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	Methyl Triglycol Borate (30989-05-0), Butyl Triglycol (143-22-6), Butyl Polyglycol (9004-77-7), 2-(2-Methoxyethoxy)ethanol (111-77-3)	

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

Methyl Triglycol Borate (30989-05-0), Butyl Triglycol (143-22-6), Butyl Polyglycol (9004-77-7), 2-(2-Methoxyethoxy)ethanol (111-77-3)

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Methyl Triglycol Borate	CAS-No.: 30989-05-0 EC-No.: 250-418-4 EC Index-No.: 250-418-4 REACH-no: 2119462824-33	≥ 30 - ≤ 90	Repr. 2, H361fd
Butyl Triglycol	CAS-No.: 143-22-6 EC-No.: 205-592-6 EC Index-No.: 603-183-00-0 REACH-no: 01-2119475107- 38	≥1-≤9.9	Eye Dam. 1, H318
Butyl Polyglycol	CAS-No.: 9004-77-7 EC-No.: 500-012-0 REACH-no: 2119475115-41	≥ 0 – ≤ 5	Eye Irrit. 2, H319
2-(2-Methoxyethoxy)ethanol	CAS-No.: 111-77-3 EC-No.: 203-906-6 EC Index-No.: 603-107-00-6 REACH-no: 01-2119475100- 52	≥ 0 - ≤ 2.99	Repr. 1B, H360D

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Specific concentration limits:			
Name	Product identifier	Specific concentration limits (%)	
Butyl Triglycol	CAS-No.: 143-22-6 EC-No.: 205-592-6 EC Index-No.: 603-183-00-0 REACH-no: 01-2119475107- 38	(20 ≤ C < 100) Eye Irrit. 2; H319 (30 ≤ C < 100) Eye Dam. 1; H318	
Butyl Polyglycol	CAS-No.: 9004-77-7 EC-No.: 500-012-0 REACH-no: 2119475115-41	(20 ≤ C < 100) Eye Irrit. 2; H319	
2-(2-Methoxyethoxy)ethanol	CAS-No.: 111-77-3 EC-No.: 203-906-6 EC Index-No.: 603-107-00-6 REACH-no: 01-2119475100- 52	(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

General	: Remove to fresh air and keep at rest in a position comfortable for breathing. If medical advice is needed, have product container or label at hand.
After inhalation	 Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
After skin contact	: Take off immediately all contaminated clothing. If skin irritation occurs: Get medical advice/attention.
After eye contact	: If eye irritation persists: Get medical advice/attention. In case of eye contact, immediately rinse with clean water for 10-15 minutes.
After ingestion	Do NOT induce vomiting Rinse mouth, Call a physician immediately. If the person is fully

After ingestion : Do NOT induce vomiting. Rinse mouth. Call a physician immediately. If the person is fully conscious, make him/her drink plenty of water. Never give an unconscious person anything to drink.

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

After inhalation : May cause respiratory irritation.

After skin contact : Repeated exposure may cause skin dryness or cracking.

After eye contact : May cause severe irritation.

After ingestion : Abdominal pain, nausea. Vomiting.

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, powder, foam and CO2.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Carbon monoxide. Carbon dioxide.

5.3. Advice for firefighters

Precautionary measures fire : Do not enter fire area without proper protective equipment, including respiratory protection.

Firefighting instructions : Use water spray or fog for cooling exposed containers. Prevent fire fighting water from

entering the environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Mark out the contaminated area with signs and prevent access to unauthorized personnel.

For non-emergency personnel

Protective equipment : Wear suitable protective clothing and gloves.

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.

Small quantities of liquid spill: take up in non-combustible absorbent material and shovel

into container for disposal.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking. Do not get in eyes, on skin, or on clothing. Keep container closed when not in use.

Hygiene measures : Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep container tightly closed.

Incompatible products : Oxidizing agent.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure and biological limit values

2-(2-Methoxyethoxy)ethanol (111-77-3)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	2-(2-Methoxyethoxy)ethanol	
IOELV TWA (mg/m³)	50.1 mg/m³	
Notes	Skin	
Regulatory reference COMMISSION DIRECTIVE 2006/15/EC		
Ireland - Occupational Exposure Limits		
Local name	2-(2-Methoxyethoxy)ethanol	
OEL (8 hours ref) (mg/m³)	50.1 mg/m³	
OEL (8 hours ref) (ppm)	10 ppm	
Regulatory reference	Chemical Agents Code of Practice 2021	

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8.2. Exposure controls

Appropriate engineering controls

Technical measures:

Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Personal protection equipment

Personal protective equipment:

Safety glasses. Gloves.

Personal protective equipment symbol(s):







Eye and face protection

Eye protection:

Chemical goggles or safety glasses

Eye protection			
Туре	Field of application	Characteristics	Standard
Safety glasses, Face shield		With side shields	EN 166

Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Wear suitable gloves resistant to chemical penetration

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Reusable gloves	Butyl rubber, Natural rubber	6 (> 480 minutes)	0.3		EN ISO 374, EN 388

Respiratory protection

Respiratory protection:

No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation

Respiratory protection				
Device	Filter type	Condition	Standard	
Reusable half mask	Type A - High-boiling (>65 °C) organic compounds	In the event of insufficient ventilation:		

Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

Other information:

Do not eat, drink or smoke when using this product. 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.

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Appearance : Clear.

Odour : Slight.

Odour threshold : Not available

Melting point : <-50 °C SAE J 1704

Freezing point : > 260 °C SAE J 1704

Flammability (colid gas) : > 280 °C

Flammability (solid, gas) : > 280 °C

Lower explosion limit : Not available

Upper explosion limit : Not available

Flash point : > 120 °C IP 35

Auto-ignition temperature : Not available

Decomposition temperature : > 300 °C

pH : 7 - 10.5 SAE J 1704
Viscosity, kinematic : 5 - 10 mm²/s @20C
Solubility : Water: 100 %
Ethanol: 100 %

 Log Kow
 : Not available

 Log Pow
 : ≤ 2

 Vapour pressure
 : 1 mbar

Vapour pressure : 1 mbar
Vapour pressure at 50°C : Not available

Density : 1067 (1020 – 1070) kg/m³ DIN 51757

Relative density : Not available
Relative vapour density at 20°C : Not available
Particle characteristics : Not applicable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

None under normal conditions.

10.2. Chemical stability

The substance is hygroscopic and absorbs water as it comes into contact with moisture in the air.

10.3. Possibility of hazardous reactions

Peroxides may be formed on prolonged contact with air.

10.4. Conditions to avoid

Do not allow contact with water. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

Strong oxidizing agent. Strong bases. Strong acids. water.

10.6. Hazardous decomposition products

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, nitrogen oxides (NOx), NH3, sulphur compounds.

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

Acute toxicity (inhalation) : Due to the low vapor pressure, inhalation is unlikely to be a hazard at room temperature.

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Additional information	: If a significant amount is ingested there is a risk of kidney damage which in extreme cases could lead to kidney failure, coma or dead. Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness breathing arrest.
MPM Brake Fluid DOT 5.1	
LD50 oral rat	5000 mg/kg Limited experience indicates that the fatal dose in humans may be lower.
LD50 dermal rabbit	3000 mg/kg
Methyl Triglycol Borate (30989-05-0)	
LD50 oral rat	> 2000 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg bodyweight
Butyl Triglycol (143-22-6)	
LD50 oral rat	> 5000 mg/kg bodyweight
LD50 dermal rabbit	3540 mg/kg bodyweight
Butyl Polyglycol (9004-77-7)	
LD50 oral rat	> 2000 mg/kg bodyweight
LD50 dermal rabbit	3540 mg/kg bodyweight
ATE CLP (dermal)	3540 mg/kg bodyweight
2-(2-Methoxyethoxy)ethanol (111-77-	3)
LD50 dermal rabbit	9404 mg/kg bodyweight OECD 402
ATE CLP (dermal)	9404 mg/kg bodyweight
Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met.) pH: 7 – 10.5 SAE J 1704
Additional information	: However, prolonged or repeated exposure can degrease the skin and lead to dermatitis.
Butyl Triglycol (143-22-6)	
рН	7
Serious eye damage/irritation	: Not classified
Additional information	pH: 7 – 10.5 SAE J 1704 : Causes eye irritation
Butyl Triglycol (143-22-6)	
рН	7
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met.)
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 the unborn child.
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met.).
MPM Brake Fluid DOT 5.1	
NOAEL (oral, rat)	500 mg/kg bodyweight
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met.)
Methyl Triglycol Borate (30989-05-0)	> 4000 mar/les hadrousisht
NOAEL (oral, rat, 90 days)	≥ 1000 mg/kg bodyweight
Butyl Triglycol (143-22-6)	1000 # 1 1 1 0707 100 1
LOAEL (oral, rat, 90 days)	1200 mg/kg bodyweight OECD 408 (
NOAEL (oral, rat, 90 days)	400 mg/kg bodyweight OECD 408

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Butyl Triglycol (143-22-6)		
NOAEL (dermal, rat/rabbit, 90 days)	4000 mg/kg bodyweight	
Butyl Polyglycol (9004-77-7)		
LOAEL (oral, rat, 90 days)	1200 mg/kg bodyweight	
NOAEL (oral, rat, 90 days)	400 mg/kg bodyweight	
2-(2-Methoxyethoxy)ethanol (111-77-3)		
NOAEL (oral, rat, 90 days)	900 mg/kg bodyweight OECD 407	
NOAEC (inhalation, rat, vapour, 90 days)	> 1.06 mg/l air OECD 413	
Aspiration hazard : Not classified		
MPM Brake Fluid DOT 5.1		
Viscosity, kinematic	5 – 10 mm²/s @20C	
Butyl Triglycol (143-22-6)		
Viscosity, kinematic	9.2 mm²/s @ 25.0°C	
Butyl Polyglycol (9004-77-7)		
Viscosity, kinematic	9.2 mm²/s @ 25.0°C	

11.2. Information on other hazards

Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties

: Shows an adverse effect in an intact organism or its progeny, which is a change in the morphology, physiology, growth, development, reproduction or life span of an organism, system or (sub)population that results in an impairment of functional capacity, an impairment of the capacity to compensate for additional stress or an increase in susceptibility to other influences

Other information

Other information

: Irritant side effects: The product contains substances that can irritate locally through skin/eye contact or when inhaled. Contact with local irritants may result in the contact area more easily absorbing harmful substances, such as allergens.

SECTION 12: Ecological information

12.1. Toxicity

General

Hazardous to the aquatic environment, short-term

(acute)

Hazardous to the aquatic environment, long-term

(chronic)

The product is not expected to be harmful to the environment.

Not classified

: Not classified

(6.1.6.1.6)		
MPM Brake Fluid DOT 5.1		
LC50 fish 1	> 100 mg/l @96h (Oncorhynchus Mykiss)	
Methyl Triglycol Borate (30989-05-0)		
LC50 fish 1	> 222.2 mg/l	
LC50 fish 2	> 1010 mg/l	
EC50 Daphnia 1	> 211.2 mg/l	
EC50 Daphnia 2	> 960 mg/l	
EC50 72h - Algae [1]	> 224.4 mg/l	

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Methyl Triglycol Borate (30989-05-0)	
EC50 72h - Algae [2]	> 1020 mg/l
Butyl Triglycol (143-22-6)	
LC50 fish 1	2400 mg/l Pimephales promelas
LC50 fish 2	2200 – 4600 mg/l Leuciscus idus
EC50 72h - Algae [1]	1589 mg/l Pseudokirchneriella subcapitata
EC50 72h - Algae [2]	3211 mg/l Pseudokirchneriella subcapitata
Butyl Polyglycol (9004-77-7)	
LC50 fish 1	> 1800 mg/l
EC50 Daphnia 1	> 3200 mg/l
EC50 72h - Algae [1]	391 mg/l
2-(2-Methoxyethoxy)ethanol (111-77-3)	
LC50 fish 1	5741 mg/l Pimephales promelas
EC50 Daphnia 1	1192 mg/l Daphnia magna
EC50 96h - Algae [1]	> 1000 mg/l Pseudokirchneriella subcapitata

12.2. Persistence and degradability

MPM Brake Fluid DOT 5.1	
sistence and degradability Readily biodegradable.	
Methyl Triglycol Borate (30989-05-0)	
Persistence and degradability	Rapidly degradable
Butyl Triglycol (143-22-6)	
Persistence and degradability	Rapidly degradable
Butyl Polyglycol (9004-77-7)	
Persistence and degradability	Rapidly degradable
2-(2-Methoxyethoxy)ethanol (111-77-3)	
Persistence and degradability	Rapidly degradable

12.3. Bioaccumulative potential

MPM Brake Fluid DOT 5.1	
Log Pow	≤2
Bioaccumulative potential	No bioaccumulation expected.

12.4. Mobility in soil

MPM Brake Fluid DOT 5.1	
Soil	Soluble in water and will partition to aqueos phase. Volatilisation from water to air not
	expected.

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12.5. Results of PBT and vPvB assessment

MPM Brake Fluid DOT 5.1

The product does not meet the PBT and vPvB classification criteria

Component

Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII

Methyl Triglycol Borate (30989-05-0), Butyl Triglycol (143-22-6), Butyl Polyglycol (9004-

77-7), 2-(2-Methoxyethoxy)ethanol (111-77-3)

Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII

Methyl Triglycol Borate (30989-05-0), Butyl Triglycol (143-22-6), Butyl Polyglycol (9004-77-7), 2-(2-Methoxyethoxy)ethanol (111-77-3)

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties

: The product does not contain any substances with endocrine disrupting properties.

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional waste regulation

: Disposal must be done according to official regulations.

Product/Packaging disposal recommendations

: Waste suitable for incineration.

Waste disposal recommendations

: Dispose in a safe manner in accordance with local/national regulations. Remove to an

authorized waste treatment plant.

European List of Waste (LoW, EC 2000/532) : 16 01 13* - brake fluids

SECTION 14: Transport information

In accordance with ADR / IMDG

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

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

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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-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

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)

Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

Explosives Precursors Regulation (EU 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 (EC 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)

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Indication of changes		
Section	Changed item	Comments
	Supersedes	Modified
	Revision date	Modified
	Adverse effects on the environment caused by endocrine disrupting properties	Added
2.2	Precautionary statements (CLP)	Modified
9.1	Colour	Modified

Full text of H- and EUH-statements:	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H318	Causes serious eye damage.

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Full text of H- and EUH-statements:	
H319	Causes serious eye irritation.
H360D	May damage the unborn child.
H361d	Suspected of damaging the unborn child.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
Repr. 1B	Reproductive toxicity, Category 1B
Repr. 2	Reproductive toxicity, Category 2

The classification complies with : ATP 12

Safety Data Sheet (SDS), EU

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.