

SAFETY DATA SHEET

HARDWOOD | FINISH | TRUEMARK POLY

Hallmark Floors TrueMark Poly Base Coat

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

according to Regulation (EU) No 453/2010

Article No.	163-005-00140	TrueMark GlazeTek	
Date of print:	28.08.2012	Revision Date: 23.08.2012	EN
Version:	000001.0000	Date of Issue: 23.08.2012	Page 1/14

SECTION 1 - Identification of the substance/ preparation and of the company/undertaking

1.1 Product identifiers:

Article no. (manufacturer / supplier):

163-030-00140

Identification of the substance or preparation:

TrueMark Poly
Semi Gloss
Anti-Scratch

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

Relevant identified uses

Coatings and paints, fillers, putties, thinners

1.3 Details of the supplier of the safety data sheet

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

Friedrich Klumpp GmbH
Dornbirner Str.23
D-70469 Stuttgart

Phone: +49 711 98184-310
Fax: +49 711 850328
E-Mail: sdb@klumpp-coatings.com

Dept. responsible for information:

Labor

E-mail (competent person):

sdb@klumpp-coatings.com

1.4 Emergency telephone number

Emergency telephone:

Only available during office hours.

+86 (0)21 50463530
8:30 am ~ 5:00pm (Beijin tme)

SECTION 2 - HAZARDOUS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP):

This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP].

Skin Irrit. 2/H315

Skin corrosion/irritation

Causes skin irritation.

Eye Dam. 2/H318

Serious eye damage/eye irritation

Causes serious eye damage.

Skin Sens. 1/H317

Respiratory or skin sensitisation:

May cause an allergic skin reaction.

Aquatic Chronic 3 / H412

Hazardous to the aquatic environment:

Harmful to aquatic life with long lasting effects.

Classification according to Directive 67/548/EEC or 1999/45/EC

The preparation is dangerous in the sense of Directive 1999/45/EC.

Xi;; R36/38

Irritant

Irritating to eyes and skin.

R43

May cause sensitization by skin contact.

R52-53

Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

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SECTION 2 - HAZARDOUS IDENTIFICATION (CONT.)

2.2 Label elements

The product is classified and labelled according to EC directives or corresponding national laws.

Labelling (CLP)

Hazard pictograms:

Warning

Hazard statements:

H315

Causes skin irritation.

H319

Causes serious eye irritation.

H317

May cause an allergic skin reaction.

H412

Harmful to aquatic life with long lasting effects.

Safety precautions:

P273

Avoid release to the environment.

P280

Wear protective gloves/protective clothing/eye protection/face

P305 + P351 + P338

protection. IF IN EYES: Rinse cautiously with water for several minutes.

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

P332 + P313

If skin irritation occurs: Get medical advice/attention.

P337 + P313

If eye irritation persists: Get medical advice/attention.

P501

Contents / container to carry industrial incinerator

contains:

trimethylolpropane triacrylate

Supplemental Hazard information (EU):

Labelling (67/548/EEC or 1999/45/EC)

Hazard statements:

36/38

43

52/53

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SECTION 2 - HAZARDOUS IDENTIFICATION (CONT.)

2.2 Label elements

The product is classified and labelled according to EC directives or corresponding national laws.

Safety Precautions:

24	Avoid contact with skin.
26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
37	Wear suitable gloves and eye/face protection.
38	In case of insufficient ventilation, wear suitable respiratory equipment.
51	Use only in well-ventilated areas.
61	Avoid release to the environment. Refer to special instructions /safety data sheet.
23	Do not breathe vapour
contains:	(1-methyl-1,2-ethanediy)bis[oxy(methyl-2,1-ethanediy)] diacrylate
Special provisions concerning the labelling of certain mixtures:	acrylic ester
	trimethylolpropane triacrylate

2.3 Other Hazards

SECTION 3 - composition/information on ingredients

Mixtures

chemical characterization (preparation)

Description: Coatings and paints, fillers, putties, thinners

Hazardous ingredients:

Classification according to EC regulation 1272/2008 (CLP):

EC No:	REACH No:	% by weight
CAS No.:	Chemical name:	Remark:
INDEX no.:	classification:	
500-066-5	01-2119489900-30	25 - 50
28961-43-5	trimethylolpropane triacrylate	
	Eye Irrit. 2 H319 / Skin Sens. 1 H317	
	acrylic ester	10-12,5
	Skin Irrit. 2 H315 / Eye Irrit. 2 H319 / Skin Sens. 1 H317 / STOT SE 3 H335	

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SECTION 3 - composition/information on ingredients (Cont.)

256-032-2	01-2119484613-34	2,5 - 5
42978-66-5	(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate	
607-249-00-X	Eye Irrit. 2 H319 / STOT SE 3 H335 / Skin Irrit. 2 H315 / Skin Sens. 1 H317 / Aquatic Chronic 2 H411	
204-337-6	01-2119488052-40	1 - 2,5
119-61-9	Benzophenone	
	Aquatic Chronic 2 H411	
219-785-8		1 - 2,5
2530-85-0	3-(Trimethoxysilyl)propyl methacrylate	
	Skin Irrit. 2 H315 / Eye Irrit. 2 H319 / STOT SE 3 H335	
218-886-4		<0,5
	1,2-ethanediyl diacrylate	
2274-11-5	Acute Tox. 4 H302 / Acute Tox. 3 H311 / Skin Irrit. 2 H315 / Eye Irrit. 2 H319 / STOT SE 3 H335 / Aquatic Chronic 2 H411	
607-133-00-9		
239-701-3	01-2119489896-11	<0,5
15625-89-5	2,2-bis(acryloyloxymethyl)butylacrylate	
607-111-00-9	Skin Irrit. 2 H315 / Eye Irrit. 2 H319 / Skin Sens. 1 H317	

Classification according to Directive 67/548/EEC or 1999/45/EC

EC No:	REACH No:	% by weight
CAS No.:	Identification of the hazard:	Remark:
INDEX no.:	classification:	
500-066-5	01-2119489900-30	25 - 50
28961-43-5	trimethylolpropane triacrylate	
	Xi;; R36 / R43	
	acrylic ester	10 - 12,5
	Xi;; R36/38 / R43	
		2,5 - 5
256-032-2	01-2119484613-34	
42978-66-5	(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate	
607-249-00-X	Xi;; R36/37/38 / R43 / N;; R51-53	
204-337-6	01-2119488052-40	1 - 2,5
119-61-9	benzophenone	
	N;; R51-53	

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Classification according to Directive 67/548/EEC or 1999/45/EC

EC No:	REACH No:	% by weight
CAS No.:	Identification of the hazard:	Remark:
INDEX no.:	classification:	
219-785-8 2530-85-0	3-(Trimethoxysilyl)propyl methacrylate Xi;; R36/37/38	1 - 2,5
218-886-4 2274-11-5 607-133-00-9	1,2-ethanediyl diacrylate Xn;; R21/22 / Xi;; R36/37/38 / N;; R51-53	<0,5
239-701-3 15625-89-5 607-111-00-9	01-2119489896-11 2,2-bis(acryloyloxymethyl)butyl acrylate Xi;; R36/38 / R43	<0,5
265-199-0 64742-95-6	01-2119455851-35 Solvent naphtha (petroleum), light arom.;; Low boiling point naphtha - unspecified R10 / Xi;; R37 / N;; R51-53 / Xn;; R65 / R66 / R67	<0,5

Additional information

Full text of R-phrases: see section 16.

Full text of H-phrases: see section 16.

Labelling for contents according to regulation (EC) No 648/2004, annex 7:

7-methyl-3-methyleneocta-1,6-diene

SECTION 4 - FIRST-AID MEASURES

4.1 Description of first aid measures:

General information:

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in unconscious position and seek medical advice.

After inhalation

Move victim to fresh air. Put victim at rest and keep warm. In case of irregular breathing or respiratory arrest provide artificial respiration.

In case of skin contact:

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap.

Do not use solvents or thinners. In case of skin contact:

Conditions to avoid UV-radiation/sunlight. Causes mild skin irritation.

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SECTION 4 - FIRST-AID MEASURES (CONT)

In case of eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice.

After ingestion:

If swallowed, rinse mouth with water (only if the person is conscious). Consult physician immediately. Keep victim calm. Do not induce vomiting.

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

In all cases of doubt, or when symptoms persist, seek medical advice.

4.3 Indication of any immediate medical attention and special treatment needed.

SECTION 5 - Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Alcohol resistant foam, carbon dioxide fire blanket, Powder, spray mist, (water)

Extinguishing media which must not be used for safety reasons:

Strong water jet

5.2 Special exposure hazards arising from the substance or preparation itself, its combustion products or from resulting gases:

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

5.3 Special protective equipment for firefighters:

Provide a conveniently located respiratory protective device.

Additional information:

Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground, or waterways. Treat runoff as hazardous.

SECTION 6 - Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours. See protective measures under point 7 and 8.

6.2 Environmental measures

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

6.3 Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see chapter 13). Clean using cleansing agents. Do not use solvents.

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SECTION 6 - Accidental release measures (cont.)

6.4 Reference to other sections

Observe protective provisions (see chapter 7 and 8).

Persons with a history of skin sensitisation problems should not be employed in any process in which this product is used.

SECTION 7 - Handling and storage

Precautions for safe handling

7.1 Advices on safe handling

Use only in well-ventilated areas. Keep away from heat sources, sparks and open flames. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to chapter 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

Hints on joint storage

Keep away from strongly acidic and alkaline materials as well as oxidizers.

Further information on storage conditions

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 15 °C and 30 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Keep only in the original container.

7.3 Specific end use(s)

Observe technical data sheet. Observe instructions for use.

SECTION 8 - Exposure controls / Personal protection

EC No: CAS No.:	Description:	type:	Limit value STEL (EC) TWA (EC)	Unit
265-199-0 64742-95-6	Solvent naphtha (petroleum), light arom.;; Low boiling point naphtha - unspecified	EG	100 50	PPM
218-886-4 2274-11-5	1,2-ethanediyl diacrylate	EG	50	

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SECTION 8 - exposure controls/personal protection (cont.)

8.1 For prolonged or repeated handling the following glove material must be used: NBR (Nitrile rubber).
Thickness of the glove material: > 0,4 mm ;; **Penetration time (maximum wearing period):** > 480 min.
Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin.
Recommended glove articles: DIN EN 374
Barrier creams can help protecting exposed skin areas. In no case should they be used after contact. Additional information:

TWA (EC): Occupational exposure limit value

STEL (EC): Short-term occupational exposure limit value

8.2 Exposure controls:

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and Solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

Occupational exposure controls:

Respiratory protection:

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Use only respiratory protection equipment with CE-symbol including four digit test number.

Hand protection:

For prolonged or repeated handling the following glove material must be used: NBR (Nitrile rubber).

Thickness of the glove material: > 0,4 mm ;; **Penetration time (maximum wearing period):** > 480 min.

Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles: DIN EN 374

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

Eye protection:

Wear closely fitting protective glasses in case of splashes.

Body protection:

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

Protective measures:

After contact clean skin thoroughly with water and soap oder use appropriate cleanser.

Environmental exposure controls

Do not allow to enter into surface water or drains. refer to chapter 7. No further action is necessary.

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SECTION 9 - Physical and chemical properties

9.1

Information on basic physical and chemical properties

Appearance:

Physical state:

Colour:

Odour:

liquid

refer to label

Characteristic

Safety relevant basis data	Unit	Method	Remark:
Flash point (°C):	> 100 °C		
Ignition temperature (AIT)	°C		
lower explosion limit:	0,8 Vol-%		
Upper explosion limit:	Vol-%		
Vapour pressure at 20 °C:	Vmbar		
Density at 20 °C:	1,24 g/cm ³		
Water solubility (g/l):			
pH at 20 °C:			
Viscosity at 20 °C	40 s 4 mm	DIN 53211	
Solvent separation test (%):	< 3 %		
Solid content (%):	98 % by weight		
solvent content:			
Organic solvents:	2 % by weight		
Water:	1 % by weight		
Other information:			

SECTION 10 - STABILITY AND REACTIVITY

10.1 Reactivity

10.2 Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to chapter 7.

10.3 Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

10.4 Conditions to avoid

This preparation contains material instable under the following conditions: Heatin, strong ultraviolet radiation. An exotherm polymerization of the product may thereby be caused. Avoid unintended contact with it. Hazardous decomposition byproducts may form with exposure to high temperatures.

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SECTION 10 - STABILITY AND REACTIVITY (CONTD)

10.5 Incompatible materials

10.6 Hazardous decomposition products

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

SECTION 11 - Toxicological information

No data on preparation itself available.

11.1 Information on toxicological effects

Acute toxicity

2,2-bis(acryloyloxymethyl)butylacrylate

oral, LD50, Rat: > 5000 mg/kg

Method: The statement is derived from products of similar composition.

2,2-bis(acryloyloxymethyl)butylacrylate

dermal, LD50, Rat: 5170 mg/kg

Benzophenone

oral, LD50, Rat: > 10000 mg/kg

Benzophenone

dermal, LD50, Rabbit: 3535 mg/kg

Irritant and corrosive effects

Toxicological data are not available.

Sensitisation

Toxicological data are not available.

Specific target organ toxicity

Toxicological data are not available.

Aspiration hazard:

Toxicological data are not available.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Toxicological data are not available.

Practical experience

Other observations:

The fractions of acrylic resin in the preparation have an irritant effect. Prolonged or repeated contact with the preparation can lead to irritations of mucous membranes and of skin such as redness, formation of blebs, dermatitis, etc.. Cases of allergic skin reactions have been observed. Liquid splashes can lead to irritations of the eyes. Inhaling of droplets in the air or aerosols may lead to irritations of the respiratory tract. Ingestion may cause nausea, weakness and affect the central nervous system.

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SECTION 11 - Toxicological information (contd)

11.1 Overall Assessment on CMR properties:

The components in this formulation do not meet the criteria for classification as CMR category 1 or 2.

There is no information available on the preparation itself. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified according to the toxicological dangers. See chapters 2 and 15 for details.

SECTION 12 - ecological information

Overall evaluation:

There is no information available on the preparation itself.

Do not allow to enter into surface water or drains.

12.1 Toxicity

2,2-bis(acryloyloxymethyl)butylacrylate

Fish toxicity, LC50, *Leuciscus idus* (golden orfe): 0,99 - 2,2 mg/l (96 h)

Long-term Ecotoxicity

Toxicological data are not available.

2,2-bis(acryloyloxymethyl)butylacrylate

Daphnia toxicity, EC50, *Daphnia magna*: 19,9 mg/l (48 h)

2,2-bis(acryloyloxymethyl)butylacrylate

Algae toxicity, ErC50, *Scenedesmus subspicatus*: 4,9 mg/l (72 h)

2,2-bis(acryloyloxymethyl)butylacrylate

Atmungshemmung von kommunalem Belebtschlamm, EC20:: 625 mg/l (30 min.)

Benzophenone

Fish toxicity, LC50: 14,2 mg/l (96 h)

Method: OECD 202

Benzophenone

Daphnia toxicity, EC50, *Daphnia magna*: 6,8 mg/l (48 h)

Benzophenone

Algae toxicity, ErC50, *Pseudokirchneriella subcapitata*: 3,5 mg/l (72 h)

Long-term Ecotoxicity

Benzophenone

Fish toxicity, NOEC: 2,1 mg/l

Benzophenone

Daphnia toxicity, NOEC, *Daphnia magna*: 0,2 mg/l (21 d)

Benzophenone

Algae toxicity, NOEC, *Pseudokirchneriella subcapitata*: 1 mg/l (72 h)

Benzophenone

Atmungshemmung von kommunalem Belebtschlamm, NOEC:: 31,6 mg/l (3 h)

Method: OECD 209.

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SECTION 12 - Ecological information (CONTD)

- 12.2 Persistence and degradability**
 2,2-bis(acryloyloxymethyl)butylacrylate
 , Degree of elimination:: 82 - 90 % (28 d);; Evaluation: Readily biodegradable (according to OECD criteria)
 Benzophenone
 : Evaluation: Product is not easily biodegradable.
- 12.3 Bioaccumulative potential**
 Toxicological data are not available.
Bioconcentration factor (BCF):
 Toxicological data are not available.
- 12.4 Mobility in soil**
 Toxicological data are not available.
- 12.5 Results of PBT and vPvB assessment**
 The components in this formulation do not meet the criteria for classification as PBT or vPvB.
- 12.6 Other adverse effects**

SECTION 13 - Disposal considerations

- 13.1 Waste treatment methods**
Appropriate disposal / Product Recommendation:
- 13.2** Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to EC directives 75/442/EEC and 91/689/EEC in the corresponding versions, covering waste and dangerous waste.
Control report for waste code/ waste marking according to EAKV:
080111
waste paint and varnish containing organic solvents or other dangerous substances
Contaminated packaging:
Recommendation:
Cleaned containers may be recycled. Vessels not properly emptied are special waste.

SECTION 14 - Transport information

- 14.1 UN-No.:**
- 14.2 UN proper shipping name**
- 14.3 Transport hazard class(es)**
- 14.4 Packing Group:**

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SECTION 14 - Transport information (CONTD)

14.5 Environmental hazards:

Land transport (ADR/RID)

Marine pollutant:

14.6 Special precautions for user

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage. Advices on safe handling: see parts 6 - 8

Further remarks:

Land transport (ADR/RID)

Tunnel restriction code: -

Sea transport (IMDG)

EmS-No.:

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

not applicable

SECTION 15 - Regulatory information

No dangerous good in sense of these transport regulations

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

EU legislation

Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline).

VOC-value (in g/l) ISO 11890-2: 25

VOC-value (in g/l) ASTM D 2369:

according to EU-regulation 2004/42/EC (appendix II)

EU limit value for this product (cat. (Cat. A/d)): 400 g/l (2007) / 300 g/l (2010).

This product contains max 25 g/l VOC.

National regulations

Informations on working limitations:

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

Substance/product listed in the following inventories:

Canada: NOT listed in DOMESTIC SUBSTANCE LIST (DSL)

IECSC (China): One or more components of this product are NOT included on the Chinese inventory.

USA: Listed in TOXIC SUBSTANCES CONTROL ACT (TSCA)

USA: Listed in TOXIC SUBSTANCES CONTROL ACT (TSCA)

15.2 Chemical Safety Assessment

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

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

according to Regulation (EU) No 453/2010

Article No.	163-005-00140	TrueMark GlazeTek	
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SECTION 16 - other information

Relevant R-and H-phrases (Number and full text):

Eye Irrit. 2 / H319	Serious eye damage/eye irritation:	Causes serious eye irritation.
Skin Sens. 1 / H317	Respiratory or skin sensitisation:	May cause an allergic skin reaction.
Skin Irrit. 2 / H315	Skin corrosion/irritation:	Causes skin irritation.
STOT SE 3 / H335	Specific target organ toxicity (single exposure):	May cause respiratory irritation.
Aquatic Chronic 2 / H411	Hazardous to the aquatic environment:	Toxic to aquatic life with long lasting effects.
Acute Tox. 4 / H302	Acute toxicity (oral):	Harmful if swallowed.
Acute Tox. 3 / H311	Acute toxicity (dermal):	Toxic in contact with skin.
Xi;; R36/38	Irritant	Irritating to eyes and skin.
R43		May cause sensitization by skin contact
Xi;; R36/37/38	Irritant	Irritating to eyes, respiratory system and skin.
N;; R51-53	Dangerous for the environment	Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.
R10		Irritating to respiratory system.
Xi;; R37	Irritant	Irritating to respiratory system.
Xn;; R65	Harmful	Harmful: may cause lung damage if swallowed.
R66		Repeated exposure may cause skin dryness or cracking.
R67		Vapours may cause drowsiness and dizziness.
Xn;; R21/22	Irritant	Harmful in contact with skin and if swallowed.
Xi;; R36	Harmful	Irritating to eyes.

Further remarks:

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in chapter 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.