

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

RIGO
VERFFABRIEK

Trade name : ROYL_Oil_2K_Verharder
Revision date : 01.03.2023
Print date : 31-07-2023

Version (Revision) : 2.0.0 (1.0.0)

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

1.1 Product identifier

ROYL_Oil_2K_Verharder

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

The product is intended for professional use.

Relevant identified uses

Hardener for coating materials

1.3 Details of the supplier of the safety data sheet

Supplier

RIGO Verffabriek BV

Street : Dokweg 40

Postal code/City : 1976 CA IJmuiden

Telephone : +31 (0)255 548448

Information contact : veilig@rigoverffabriek.nl

1.4 Emergency Telephone Number:

+31 (0)255 548448 Call a doctor/physician or call 111 (less urgent 999)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Acute Tox. 4 ; H332 - Acute toxicity (inhalative) : Category 4 ; Harmful if inhaled.

Skin Sens. 1 ; H317 - Skin sensitisation : Category 1 ; May cause an allergic skin reaction.

STOT SE 3 ; H335 - STOT-single exposure : Category 3 ; May cause respiratory irritation.

Classification procedure

H317: Obtained on the basis of the calculation method

H332: Obtained on the basis of the calculation method

H335: Obtained on the basis of the calculation method

2.2 Label elements

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

Hazard pictograms



Exclamation mark (GHS07)

Signal word

Warning

Hazard components for labelling

HDI OLIGOMERS ; CAS No. : 28182-81-2

HEXAMETHYLENE-DI-ISOCYANATE ; CAS No. : 822-06-0

Hazard statements

H332 Harmful if inhaled.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

Precautionary statements

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P261 Avoid breathing mist/spray.
P271 Use only outdoors or in a well-ventilated area.
P312 Call a POISON CENTER or doctor if you feel unwell.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.

Special rules for supplemental label elements for certain mixtures

EUH204 Contains isocyanates. May produce an allergic reaction.

2.3 Other hazards

None

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

HDI OLIGOMERS ; EC No. : 931-274-8; CAS No. : 28182-81-2

Weight fraction : $\geq 75 - < 100$ %

Classification 1272/2008 [CLP] : Acute Tox. 4 ; H332 Skin Sens. 1 ; H317 STOT SE 3 ; H335

HEXAMETHYLENE-DI-ISOCYANATE ; EC No. : 212-485-8; CAS No. : 822-06-0

Weight fraction : $< 0,1$ %

Classification 1272/2008 [CLP] : Acute Tox. 1 ; H330 Resp. Sens. 1 ; H334 Acute Tox. 4 ; H302 Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Eye Irrit. 2 ; H319 STOT SE 3 ; H335

Additional information

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

Components according to regulation (EG) Nr. 648/2004

None

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. Never give anything by mouth to an unconscious person or a person with cramps.

Following inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. If unconscious but breathing normally, place in recovery position and seek medical advice.

In case of skin contact

Change contaminated, saturated clothing. After contact with skin, wash immediately with plenty of water and soap. Clean with detergents. Avoid solvent cleaners.

After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

Following ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Notes for the doctor First Aid, decontamination, treatment of symptoms.

4.3 Indication of any immediate medical attention and special treatment needed

None

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

alcohol resistant foam Carbon dioxide (CO₂) Extinguishing powder Water spray jet

Unsuitable extinguishing media

Strong water jet

5.2 Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon dioxide (CO₂) Nitrogen oxides (NO_x) Isocyanates Hydrogen cyanide (hydrocyanic acid) In case of fire and/or explosion do not breathe fumes.

5.3 Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

Special protective equipment for firefighters

Cool endangered containers with water in case of fire. Do not allow run-off from fire-fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Protective equipment

Use personal protection equipment. Provide adequate ventilation. Remove all sources of ignition.

6.2 Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3 Methods and material for containment and cleaning up

Take up mechanically, placing in appropriate containers for disposal. Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Add the decontaminant to the remnants and let stand for several days in a non-sealed container until no further reaction is observed. Once reaction is finished, close container and dispose of.

6.4 Reference to other sections

Disposal: see section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Provide adequate ventilation as well as local exhaust at critical locations. Respiratory protection is required for not sufficiently ventilated working places and during the spraying processing. Use ventilation to extract vapours from freshly coated articles/objects and surfaces. Precautions against fire and explosion Avoid contact with skin, eyes and clothes. Do not breathe gas/vapour/aerosol. When using do not eat, drink, smoke, sniff. Wash hands before eating, drinking or smoking. Keep work clothes separately. Take off immediately all contaminated clothing.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a cool, well-ventilated place.

7.3 Specific end use(s)

None

SECTION 8: Exposure controls/personal protection

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8.1 Control parameters

DNEL-/PNEC-values

DNEL/DMEL

Limit value type :	DNEL worker (local) (HDI OLIGOMERS ; CAS No. : 28182-81-2)
Exposure route :	Inhalation
Exposure frequency :	Short-term
Limit value :	1 mg/m ³
Limit value type :	DNEL worker (local) (HDI OLIGOMERS ; CAS No. : 28182-81-2)
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	0,5 mg/m ³
Limit value type :	DNEL worker (local) (HEXAMETHYLENE-DI-ISOCYANATE ; CAS No. : 822-06-0)
Exposure route :	Inhalation
Exposure frequency :	Short-term
Limit value :	0,07 mg/m ³
Limit value type :	DNEL worker (local) (HEXAMETHYLENE-DI-ISOCYANATE ; CAS No. : 822-06-0)
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	0,035 mg/m ³

PNEC

Limit value type :	PNEC (Aquatic, freshwater) (HDI OLIGOMERS ; CAS No. : 28182-81-2)
Limit value :	127 µg/l
Limit value type :	PNEC (Aquatic, marine water) (HDI OLIGOMERS ; CAS No. : 28182-81-2)
Limit value :	12,7 µg/l
Limit value type :	Soil (HDI OLIGOMERS ; CAS No. : 28182-81-2)
Limit value :	53,2 g/kg
Limit value type :	PNEC (Sediment, freshwater) (HDI OLIGOMERS ; CAS No. : 28182-81-2)
Limit value :	266,7 g/kg
Limit value type :	PNEC (Sewage treatment plant) (HDI OLIGOMERS ; CAS No. : 28182-81-2)
Limit value :	38,28 mg/l
Limit value type :	PNEC (Aquatic, freshwater) (HEXAMETHYLENE-DI-ISOCYANATE ; CAS No. : 822-06-0)
Limit value :	77,4 µg/l
Limit value type :	PNEC (Aquatic, marine water) (HEXAMETHYLENE-DI-ISOCYANATE ; CAS No. : 822-06-0)
Limit value :	7,74 µg/l
Limit value type :	Soil (HEXAMETHYLENE-DI-ISOCYANATE ; CAS No. : 822-06-0)
Limit value :	0,0026 mg/kg dry weight
Limit value type :	PNEC (Sediment, freshwater) (HEXAMETHYLENE-DI-ISOCYANATE ; CAS No. : 822-06-0)
Limit value :	0,01334 mg/kg dry weight
Limit value type :	PNEC (Sediment, marine water) (HEXAMETHYLENE-DI-ISOCYANATE ; CAS No. : 822-06-0)
Limit value :	0,00133 mg/kg dry weight
Limit value type :	PNEC (Sewage treatment plant) (HEXAMETHYLENE-DI-ISOCYANATE ; CAS No. : 822-06-0)
Limit value :	8,42 mg/l

8.2 Exposure controls

Personal protection equipment

Eye/face protection

Eye glasses with side protection.

Skin protection

Wear suitable working clothes.

Hand protection

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Suitable glove type according to DIN EN 374.
Gloves for repeated or prolonged exposure (breakthrough time > 480 min):
Butyl rubber, Thickness > 0,3 mm.
FKM (fluoro rubber) Thickness > 0,7 mm.
Gloves for splash protection and short protection (breakthrough time > 30 min):
Nitrile rubber (NBR), Thickness > 0,25 mm.
Splash protection gloves should be replaced immediately if they come into contact with chemicals.
Due to many conditions (e.g. temperature, wear) the practical use of a chemical protective glove in practice can be much shorter than the breakthrough time determined through testing. Check safety gloves for correct condition before each use.

Respiratory protection

In case of insufficient ventilation in the workplace and during spray-injection molding, nose and mouth protection is required. Wear a respirator conforming to EN140 with Type A/P2 filter or better. People who suffer from skin sensitization problems, asthma, allergies, chronic or recurring respiratory illnesses should not be deployed in any process using this preparation.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Colour : Colourless.

Odour : Noticeable.

Safety characteristics

Physical state :			Liquid
Melting point/freezing point :			not relevant
Freezing point :			not relevant
Initial boiling point and boiling range :	>	220	°C
Decomposition temperature :			No data available
Flash point :	approx.	228	°C
Lower explosion limit :			No data available
Upper explosion limit :			No data available
Density - dependent of color:	(20 °C)	approx.	1,16 g/cm ³
Relative density :	(20 °C)		No data available
Water solubility :	(20 °C)		No data available
log P O/W :			No data available
Cinematic viscosity :	(40 °C)		No data available
Solid content :		approx.	100 Weight-%
Odour threshold :			No data available
Relative vapour density :	(20 °C)		No data available
Vapourisation rate :			No data available
Flammable solids :			Not applicable.
Flammable gases :			Not applicable.
Oxidising liquids :			Not relevant.
Explosive properties :			Not relevant.

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

No information available.

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10.3 Possibility of hazardous reactions

No information available.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

Exothermic reaction with: Amines. Alcohols Water.

10.6 Hazardous decomposition products

No information available.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity

Parameter :	LD50 (HDI OLIGOMERS ; CAS No. : 28182-81-2)
Exposure route :	Oral
Species :	Rat
Effective dose :	> 2500 mg/kg
Method :	OECD 401
Parameter :	LD50 (HEXAMETHYLENE-DI-ISOCYANATE ; CAS No. : 822-06-0)
Exposure route :	Oral
Species :	Rat
Effective dose :	959 mg/kg bw/day
Method :	OECD 401

Acute dermal toxicity

Parameter :	LD50 (HDI OLIGOMERS ; CAS No. : 28182-81-2)
Exposure route :	Dermal
Species :	Rat
Effective dose :	> 2000 mg/kg
Method :	OECD 402
Parameter :	LD50 (HDI OLIGOMERS ; CAS No. : 28182-81-2)
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	> 2000 mg/kg
Parameter :	LD50 (HEXAMETHYLENE-DI-ISOCYANATE ; CAS No. : 822-06-0)
Exposure route :	Dermal
Species :	Rat
Effective dose :	> 7000 mg/kg bw/day
Method :	OECD 402

Acute inhalation toxicity

Parameter :	LC50 (HDI OLIGOMERS ; CAS No. : 28182-81-2)
Exposure route :	Inhalation
Species :	Rat
Effective dose :	0,39 mg/l
Exposure time :	4 h
Method :	OECD 403
Parameter :	LD50 (HEXAMETHYLENE-DI-ISOCYANATE ; CAS No. : 822-06-0)
Exposure route :	Inhalation
Species :	Rat
Effective dose :	0,124 mg/l
Exposure time :	4 hour(s)
Method :	OECD 403

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Corrosion

Skin corrosion/irritation

No information available.

Serious eye damage/eye irritation

No information available.

Irritation to respiratory tract

No information available.

Respiratory or skin sensitisation

Skin sensitisation

No information available.

Sensitisation to the respiratory tract

No information available.

Repeated dose toxicity (subacute, subchronic, chronic)

Chronic inhalation toxicity

Parameter : NOAEC (HEXAMETHYLENE-DI-ISOCYANATE ; CAS No. : 822-06-0)
Exposure route : Inhalation
Species : Rat
Effective dose : 0,164 ppm
Method : OECD 453

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity

No information available.

Germ cell mutagenicity

No information available.

Reproductive toxicity

No information available.

STOT-single exposure

No information available.

STOT SE 1 and 2

Parameter : NOAEL(C) (HDI OLIGOMERS ; CAS No. : 28182-81-2)
Exposure route : Inhalative
Species : Rat
Effective dose : 3 mg/m³
Exposure time : 6 h

STOT-repeated exposure

No information available.

Aspiration hazard

No information available.

11.5 Additional information

Over-exposure, especially when spraying coatings containing isocyanate without the necessary precautions, entails the risk of concentration-dependent irritating effects on eyes, nose throat, and respiratory tract. Delayed appearance of the complaints and development of hypersensitivity (difficult breathing, coughing, asthma) are possible. Hypersensitive persons may suffer from these effects even at low isocyanate concentrations, including concentrations below the occupational exposure limit. Prolonged contact with the skin may cause tanning and irritant effects. Animal tests and other research indicate that skin contact with diisocyanates can play a role in causing isocyanate sensitization and respiratory reaction.

SECTION 12: Ecological information

Do not allow to enter ground-water, surface water or drains, even not in small quantities.

12.1 Toxicity

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Aquatic toxicity

Acute (short-term) fish toxicity

Parameter : LC50 (HDI OLIGOMERS ; CAS No. : 28182-81-2)
Species : Danio rerio (zebrafish)
Effective dose : 8,9 mg/l
Parameter : LC50 (HEXAMETHYLENE-DI-ISOCYANATE ; CAS No. : 822-06-0)
Species : Danio rerio (zebrafish)
Effective dose : 22 mg/l
Exposure time : 96 hour(s)
Parameter : LC0 (HEXAMETHYLENE-DI-ISOCYANATE ; CAS No. : 822-06-0)
Species : Danio rerio
Effective dose : => 82,8 mg/l
Exposure time : 96 hour(s)
Method : EU method C.1

Acute (short-term) toxicity to crustacea

Parameter : EC50 (HDI OLIGOMERS ; CAS No. : 28182-81-2)
Effective dose : 127 mg/l
Exposure time : 48 h
Method : EU method C.2
Parameter : EC0 (HEXAMETHYLENE-DI-ISOCYANATE ; CAS No. : 822-06-0)
Species : Daphnia magna (Big water flea)
Effective dose : => 89,1 mg/l
Exposure time : 48 hour(s)
Method : EU method C.2

Acute (short-term) toxicity to algae and cyanobacteria

Parameter : EC50 (HDI OLIGOMERS ; CAS No. : 28182-81-2)
Species : Scenedesmus subspicatus
Effective dose : > 1000 mg/l
Exposure time : 72 h
Method : DIN 38412 / part 15
Parameter : ErC50 (HDI OLIGOMERS ; CAS No. : 28182-81-2)
Species : Desmodesmus subspicatus
Effective dose : > 1000 mg/l
Exposure time : 72 h
Method : EU method C.3
Parameter : ErC50 (HEXAMETHYLENE-DI-ISOCYANATE ; CAS No. : 822-06-0)
Species : Desmodesmus subspicatus
Effective dose : > 77,4 mg/l

Toxicity to microorganisms

Parameter : EC50 (HEXAMETHYLENE-DI-ISOCYANATE ; CAS No. : 822-06-0)
Effective dose : 842 mg/l
Exposure time : 3 hour(s)
Method : OECD 209

Sewage treatment plant

Parameter : EC50 (HDI OLIGOMERS ; CAS No. : 28182-81-2)
Inoculum : Activated sludge
Effective dose : 3828 mg/l
Exposure time : 3 h
Method : OECD 209

12.2 Persistence and degradability

Biodegradation

Parameter : Biodegradation (HDI OLIGOMERS ; CAS No. : 28182-81-2)
Evaluation : Poorly biodegradable.

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Parameter : BOD (% of ThOD) (HDI OLIGOMERS ; CAS No. : 28182-81-2)
Effective dose : 1 %
Parameter : BOD (% of ThOD) (HEXAMETHYLENE-DI-ISOCYANATE ; CAS No. : 822-06-0)
Effective dose : 42 %

12.3 Bioaccumulative potential

Parameter : Bioconcentration factor (BCF) (HDI OLIGOMERS ; CAS No. : 28182-81-2)
Concentration : 3,2
Parameter : Bioconcentration factor (BCF) (HEXAMETHYLENE-DI-ISOCYANATE ; CAS No. : 822-06-0)
Concentration : 58
Parameter : Log KOW (HDI OLIGOMERS ; CAS No. : 28182-81-2)
Concentration : 7,8
Parameter : Partition coefficient n-octanol /water (log P O/W) (HEXAMETHYLENE-DI-ISOCYANATE ; CAS No. : 822-06-0)
Concentration : 3,77

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Other adverse effects

Isocyanate reacts with water at the interface forming CO₂ and a solid insoluble product with high melting point (polyurea). This reaction is accelerated by surfactants (e.g. detergents) or by watersoluble solvents. Previous experience shows that polyurea is inert and non-degradable.

12.7 Additional ecotoxicological information

None

SECTION 13: Disposal considerations

13.1 Waste treatment methods

The generation of waste should be avoided or minimised wherever possible. Disposal of this product and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

14.1 UN number

No dangerous good in sense of these transport regulations.

14.2 UN proper shipping name

No dangerous good in sense of these transport regulations.

14.3 Transport hazard class(es)

No dangerous good in sense of these transport regulations.

14.4 Packing group

No dangerous good in sense of these transport regulations.

14.5 Environmental hazards

No dangerous good in sense of these transport regulations.

14.6 Special precautions for user

No dangerous good in sense of these transport regulations. Moisture-sensitive. Do not expose to temperatures above 50 °C. Keep away from foodstuffs, acids and alkalis.

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SECTION 15: Regulatory information

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

None

15.2 Chemical Safety Assessment

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

SECTION 16: Other information

16.1 Indication of changes

02. Classification of the substance or mixture · 02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] - Hazard components for labelling · 03. Hazardous ingredients

16.2 Abbreviations and acronyms

ADR = Europese overeenkomst met betrekking tot het vervoer van gevaarlijke goederen over de weg
ATE = Acut toxiciteitsschatting
BCF = Bioconcentration Factor, bioconcentratiefactor
BOD = Biochemical Oxygen Demand/Biological Oxygen Demand
CAS No = Chemical Abstracts Service Number (see ACS - American Chemical Society)
CLP = Indeling, etikettering en verpakking van stoffen en mengsels [Verordening (EG) No. 1272/2008]
CMR = Carcinogenic, Mutagenic or toxic to Reproduction (substances)
COD = Chemical Oxygen Demand
CSR = Chemical Safety Report
DNEL = Derived No-Effect Level, de afgeleide dosis zonder effect
EbC50 = Median effective concentration (biomass, e.g. of algae)
EC50 = Median effective concentration
ED50 = Effective Dose
EINECS = European Inventory of Existing Commercial Chemical Substances (EU, outdated, now replaced by EC Number)
ErC50 = Median effective concentration (growth rate, e.g. of algae)
IATA = International Air Transport Association, internationaal Lucht Transport Vereniging
IMDG = International Maritime Dangerous Goods Code, internationaal Maritiem Transport voor Gevaarlijke goederen
ISO = International Organization for Standardization
IUCLID = International Uniform Chemical Information Database
Kow = Octanol/Water Partition Coefficient
LC50 = Concentration required to kill 50% of test organisms
LD50 = Dose required to kill 50% of test organisms
LEL = Lower Explosive Limit/Lower Explosion Limit
LOAEL = Lowest observed adverse effect level
NOAEL = No Observed Adverse Effect Level
NOEC = No observed effect concentration
NOEL = No Observable Effect Level
OECD = Organization for Economic Cooperation and Development
OEL = Occupational Exposure Limits
PBT = Persistent, Bioaccumulatief en Toxisch
PNEC = Voorspelde geen effect concentratie
RAR = Risk Assessment Report (EU)
REACH = Registration, Evaluation and Authorization of Chemicals
REL = Recommended Exposure Limit
SI = International System of Units
STEL = Short-Term Exposure Limit
SVOC = Semi-Volatile Organic Compound
TLV = Threshold Limit Value
TWA = Time-Weighted Average
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative, zeer persistent en zeer bioaccumulatief

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WEEL = Workplace Environmental Exposure Limit

16.3 Key literature references and sources for data

None

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

The classification of mixtures and applied evaluation method in accordance with regulation (EC) Nr. 1272/2008 [CLP] has been appointed in section 2.1

16.5 Relevant H- and EUH-phrases (Number and full text)

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.

16.6 Training advice

None

16.7 Additional information

None

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.
