

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 28.07.2021

Version number 8

Revision: 28.07.2021

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

- **Identification of the substance/preparation:** *Dr. Schutz Crosslinker A*

- **UFI:** NS30-F04H-000S-XWQY

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

SU21 Verbraucherverwendung: Private Haushalte / Allgemeinheit / Verbraucher

Sector of Use

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

- **Product category** PC9a Coatings and paints, thinners, paint removers

- **Process category** PROC10 Roller application or brushing

- **Application of the substance / the mixture** Coating compound/ Surface coating/ paint

1.3 Details of the supplier of the safety data sheet**Company/undertaking identification:**

Dr. Schutz GmbH

Holbeinstr. 17

D-53175 Bonn

Germany

Tel.: +49(0)228-95352-0,

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For Ireland:

Dr Schutz P.M.C Flooring

35 Pic Du Jer Park

Ballinlough

T12 R9F9

CORK

IRELAND

phone: +353 (0) 87 767 8388

Email: paul@drschutzireland.com

- **Further information obtainable from:** Department for product development

1.4 Emergency telephone number:

Dr Schutz P.M.C Flooring limited

phone: +353 (0) 87 767 8388

Email: paul@drschutzireland.com

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

GHS07

Acute Tox. 4 H332 Harmful if inhaled.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

(Contd. on page 2)

Safety data sheet

according to 1907/2006/EC, Article 31

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Version number 8

Revision: 28.07.2021

Identification of the substance/preparation: *Dr. Schutz Crosslinker A*

(Contd. of page 1)

2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

Hazard pictograms

GHS07

Signal word Warning**Hazard-determining components of labelling:**

aliphatic polyisocyanate

Hexamethylene-1,6-diisocyanate homopolymer

3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers

cyclohexyldimethylamine

Hazard statements

H332 Harmful if inhaled.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P271 Use only outdoors or in a well-ventilated area.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 Call a POISON CENTER/doctor if you feel unwell.

P321 Specific treatment (see on this label).

P362+P364 Take off contaminated clothing and wash it before reuse.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information:

EUH204 Contains isocyanates. May produce an allergic reaction.

2.3 Other hazards**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**SECTION 3: Composition/information on ingredients****3.2 Mixtures****Description:** Mixture of substances listed below with nonhazardous additions.**Dangerous components:**

CAS: 666723-27-9 EC number: 679-494-0	aliphatic polyisocyanate Consisting of: 822-06-0 hexamethylene-di-isocyanate (<0.1%) ⚠ Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335; Aquatic Chronic 3, H412	50-100%
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(Contd. on page 3)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 28.07.2021

Version number 8

Revision: 28.07.2021

Identification of the substance/preparation: *Dr. Schutz Crosslinker A*

		(Contd. of page 2)
CAS: 111109-77-4 ELINCS: 404-640-5	1-methoxy-3-(3-methoxypropoxy)propane ⚠ Skin Irrit. 2, H315; STOT SE 3, H335	≥10-<20%
CAS: 28182-81-2 EC number: 931-274-8	Hexamethylene-1,6-diisocyanate homopolymer ⚠ Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335	5-10%
CAS: 53880-05-0 EC number: 931-312-3 Reg.nr.: 01-2119488734-24	3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers ⚠ Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335	1-5%
CAS: 123-86-4 EINECS: 204-658-1 Reg.nr.: 01-2119485493-29	n-butyl acetate ⚠ Flam. Liq. 3, H226; ⚠ STOT SE 3, H336, EUH066	1-5%
CAS: 9046-01-9	poly(oxy-1,2-ethanediyl), α-tridecyl-ω-hydroxy-, phosphate ⚠ Eye Dam. 1, H318; ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315	≥1-<2.5%
CAS: 98-94-2 EINECS: 202-715-5 Reg.nr.: 01-2119533030-60	cyclohexyldimethylamine ⚠ Flam. Liq. 3, H226; ⚠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; ⚠ Met. Corr. 1, H290; Skin Corr. 1B, H314; Eye Dam. 1, H318; ⚠ Aquatic Chronic 2, H411	≥0.1-<0.25%

• **Additional information:** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:**
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:**
After each cleaning use treatment creams, for very dry skin greasy ointments.
Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**
Call a doctor immediately.
Do not leave affected persons unattended.
Rinse out mouth and then drink plenty of water.
- **4.2 Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Not applicable.
- **5.2 Special hazards arising from the substance or mixture** Danger of forming toxic pyrolysis products.

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 28.07.2021

Version number 8

Revision: 28.07.2021

Identification of the substance/preparation: *Dr. Schutz Crosslinker A*

(Contd. of page 3)

- **5.3 Advice for firefighters**
- **Protective equipment:**
Do not inhale explosion gases or combustion gases.
Wear self-contained respiratory protective device.
- **Additional information**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Avoid contact with the eyes and skin.
Do not inhale gases / fumes / aerosols.
Ensure adequate ventilation
- **6.2 Environmental precautions:**
Inform respective authorities in case of seepage into water course or sewage system.
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Follow instructions on the label and in the Technical Product Information Sheet.
Avoid contact with the eyes and skin.
Do not inhale gases / fumes / aerosols.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **Information about fire - and explosion protection:**
No special precautions are necessary if used correctly.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store only in unopened original receptacles.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:**
Store under lock and key and out of the reach of children.
Store receptacle in a well ventilated area.
- **7.3 Specific end use(s)** No further relevant information available.

(Contd. on page 5)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 28.07.2021

Version number 8

Revision: 28.07.2021

Identification of the substance/preparation: *Dr. Schutz Crosslinker A*

(Contd. of page 4)

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****Exposure limit values:****123-86-4 n-butyl acetate**

OEL	Short-term value: 950 mg/m ³ , 200 ppm Long-term value: 710 mg/m ³ , 150 ppm
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• **Additional information:** The lists valid during the making were used as basis.

8.2 Exposure controls

- **Appropriate engineering controls** No further data; see item 7.
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures:**

Clean skin thoroughly immediately after handling the product.

Do not eat, drink, smoke or sniff while working.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Respiratory protection:

Not necessary if room is well-ventilated.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Hand protection

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye/face protection

Where there is a danger of the eyes coming into contact with splashes of liquid (i.e. when refilling larger quantities), safety goggles according to EN 166 (i.e. goggles with side shields) are recommended.

Body protection: Light weight protective clothing**Environmental exposure controls** Follow instructions for use, dosage and waste disposal.

(Contd. on page 6)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 28.07.2021

Version number 8

Revision: 28.07.2021

Identification of the substance/preparation: *Dr. Schutz Crosslinker A*

(Contd. of page 5)

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties****General Information**

· Physical state	Fluid
· Colour:	Colourless
· Odour:	Ester-like
· Odour threshold:	Not determined.
· Melting point/freezing point:	Undetermined.
· Boiling point or initial boiling point and boiling range	Undetermined.
· Flammability	Undetermined.
· Lower and upper explosion limit	
· Lower:	0.9 Vol %
· Upper:	0.0 Vol %
· Flash point:	62°C (Seta Flash Closed Cup)
· Auto-ignition temperature:	Product is not selfigniting.
· Decomposition temperature:	Not determined.
· pH	Not applicable.
· Viscosity:	
· Kinematic viscosity at 20°C	73 s (DIN 53211/4)
· Dynamic:	Not determined.
· Solubility	
· water:	Fully miscible.
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure:	Not determined.
· Density and/or relative density	
· Density at 20°C:	1.091 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.

9.2 Other information

· Appearance:	
· Form:	Fluid
· Important information on protection of health and environment, and on safety.	
· Ignition temperature:	165°C
· Explosive properties:	Product does not present an explosion hazard.
· Solvent content:	
· Organic solvents:	18.1 %
· VOC (EC)	18.1 %
· Change in condition	
· Evaporation rate	Not determined.

Information with regard to physical hazard classes

· Explosives	Not applicable
· Flammable gases	Not applicable
· Aerosols	Not applicable
· Oxidising gases	Not applicable
· Gases under pressure	Not applicable

(Contd. on page 7)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 28.07.2021

Version number 8

Revision: 28.07.2021

Identification of the substance/preparation: *Dr. Schutz Crosslinker A*

(Contd. of page 6)

· Flammable liquids	Not applicable
· Flammable solids	Not applicable
· Self-reactive substances and mixtures	Not applicable
· Pyrophoric liquids	Not applicable
· Pyrophoric solids	Not applicable
· Self-heating substances and mixtures	Not applicable
· Substances and mixtures, which emit flammable gases in contact with water	Not applicable
· Oxidising liquids	Not applicable
· Oxidising solids	Not applicable
· Organic peroxides	Not applicable
· Corrosive to metals	Not applicable
· Desensitised explosives	Not applicable

SECTION 10: Stability and reactivity

- **10.1 Reactivity** see section "Possibility of hazardous reactions".
- **10.2 Chemical stability** No information available.
- **Conditions to avoid:** No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:**
Reacts with alcohols, amines, aqueous acids and alkalis.
Reacts with water gently forming carbon dioxide. In case of moisture access pressure build-up and danger of bursting in closed packings.
- **10.6 Hazardous decomposition products:** Danger of forming toxic pyrolysis products.

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Harmful if inhaled.

· **LD/LC50 values relevant for classification:****111109-77-4 1-methoxy-3-(3-methoxypropoxy)propane**

Oral	LD50	3,300 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)

123-86-4 n-butyl acetate

Oral	LD50	13,100 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)
Inhalative	LC50/4h	>21 mg/l (rat)

98-94-2 cyclohexyldimethylamine

Oral	LD50	200-2,000 mg/kg (rat)
Dermal	LD50	>400 mg/kg (rabbit)
Inhalative	LC50/4h	4.45 mg/l (rat)

822-06-0 hexamethylene-di-isocyanate

Oral	LD50	738 mg/kg (rat)
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(Contd. on page 8)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 28.07.2021

Version number 8

Revision: 28.07.2021

Identification of the substance/preparation: *Dr. Schutz Crosslinker A*

(Contd. of page 7)

Dermal	LD50	593 mg/kg (rat)
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- **Skin corrosion/irritation** Causes skin irritation.
- **Serious eye damage/irritation** Causes serious eye irritation.
- **Respiratory or skin sensitisation** May cause an allergic skin reaction.
- **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** May cause respiratory irritation.
- **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.
- **Additional toxicological information:**
- **Repeated dose toxicity** Undetermined.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)** Undetermined.
- **11.2 Information on other hazards**

· Endocrine disrupting properties
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None of the ingredients is listed.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:**
Undetermined.

111109-77-4 1-methoxy-3-(3-methoxypropoxy)propane
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EC50/48h	>1,000 mg/l (Daphnia magna)
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123-86-4 n-butyl acetate

EC50/48h	205 mg/l (Daphnia magna)
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- **12.2 Persistence and degradability** The solvent is biodegradable.
- **12.3 Bioaccumulative potential** Undetermined.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties**
The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **General notes:**
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
Harmful to aquatic organisms

(Contd. on page 9)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 28.07.2021

Version number 8

Revision: 28.07.2021

Identification of the substance/preparation: *Dr. Schutz Crosslinker A*

(Contd. of page 8)

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Recommendation**

Disposal must be made according to official regulations.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

European waste catalogue

16 05 08*	discarded organic chemicals consisting of or containing hazardous substances
08 05 01*	waste isocyanates

Uncleaned packaging:**Recommendation:**

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning. Packagings that may not be cleansed are to be disposed of in the same manner as the product.

Recommended cleansing agents: Water, if necessary together with cleansing agents.**SECTION 14: Transport information****14.1 UN number or ID number****ADR, ADN, IMDG, IATA** Not applicable**14.2 UN proper shipping name****ADR, ADN, IMDG, IATA** Not applicable**14.3 Transport hazard class(es)****ADR, ADN, IMDG, IATA****Class** Not applicable**14.4 Packing group****ADR, IMDG, IATA** Not applicable**14.5 Environmental hazards:****Marine pollutant:** No**14.6 Special precautions for user**

Not applicable.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

UN "Model Regulation":

Not applicable

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****Directive 2012/18/EU****Named dangerous substances - ANNEX I** None of the ingredients is listed.**REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3**DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

(Contd. on page 10)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 28.07.2021

Version number 8

Revision: 28.07.2021

Identification of the substance/preparation: *Dr. Schutz Crosslinker A*

(Contd. of page 9)

· **REGULATION (EU) 2019/1148**· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

· **National regulations:**· **Information about limitation of use:**

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

People who suffer from allergies, asthma, chronic or recurring respiratory illnesses should not be deployed in any process using the product.

· **Other regulations, limitations and prohibitive regulations**

Other regulations (EC): Directive 2004/42/EC

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.**SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

- H226 Flammable liquid and vapour.
- H290 May be corrosive to metals.
- H301 Toxic if swallowed.
- H311 Toxic in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H331 Toxic if inhaled.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.
- EUH066 Repeated exposure may cause skin dryness or cracking.

· **Training hints ---**· **Recommended restriction of use**

Not intended for spraying and industrial processing.

Restricted to professional users.

People who suffer from allergies, asthma, chronic or recurring respiratory illnesses should not be deployed in any process using the product.

· **Department issuing SDS:** Department for product development· **Contact:**

Dr. Reindl

Dr. Reindl

· **Version number of previous version:** 7

(Contd. on page 11)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 28.07.2021

Version number 8

Revision: 28.07.2021

Identification of the substance/preparation: *Dr. Schutz Crosslinker A*

(Contd. of page 10)

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 3: Flammable liquids – Category 3

Met. Corr. 1: Corrosive to metals – Category 1

Acute Tox. 3: Acute toxicity – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

- **Sources** Safety data sheet for raw materials, eur-lex.europa.eu