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

#### **1.1. Product identifier** Trade name/designation:

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Article No.: T504600 UFI: RGWY-X03H-E60U-3CAS

# **1.2.** Relevant identified uses of the substance or mixture and uses advised against Use of the substance/mixture:

Adhesive

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

# Supplier:

KANDO Service GmbH Hartleitnerstraße 3 4653 Eberstalzell Austria Telephone: +43 (0) 7241 213 79 E-mail: msds@kando.eu

# 1.4. Emergency telephone number

Vergiftungsinformationszentrale (VIZ), Stubenring 6, 1010 Wien, 24h: 01 406 43 43, Montag - Freitag: 8 bis 16 Uhr, Tel.: 01 406 68 98 (keine medizinische Auskunft) (Only available during office hours.)

# **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
Skin corrosion/irritation (Skin Irrit. 2)	H315: Causes skin irritation.	
Serious eye damage/eye irritation (Eye Irrit. 2)	H319: Causes serious eye irritation.	
STOT-single exposure (STOT SE 3)	H335: May cause respiratory irritation.	

# 2.2. Label elements

# Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms:



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# Hazard components for labelling:

ethyl 2-cyanoacrylate

Hazard statements for health hazards	
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

#### Supplemental hazard information

EUH202	Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.	
Precautionary statements Prevention		
P261	Avoid breathing vapours	

FZUI	Avoid breathing vapours.	
P280	Wear protective gloves/eye protection.	
Precautionary st	atements Response	
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.	

	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.

#### P332 + P313 If skin irritation occurs: Get medical advice/attention.

# 2.3. Other hazards

**Other adverse effects:** 

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

# **SECTION 3: Composition/information on ingredients**

#### \* 3.2. Mixtures

**Description:** Adhesive

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

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 7085-85-0 EC No.: 230-391-5 Index No.: 607-236-00-9 REACH No.: 01-2119527766-29	ethyl 2-cyanoacrylate Eye Irrit. 2 (H319), STOT SE 3 (H335), Skin Irrit. 2 (H315) $\checkmark$ Warning Specific concentration limit (SCL) STOT SE 3; H335: C $\geq$ 10% Acute Toxicity Estimate ATE (oral) > 5,000 mg/kg ATE (dermal) > 2,000 mg/kg	> 50 - ≤ 100 Vol-%
CAS No.: 123-31-9 EC No.: 204-617-8 Index No.: 604-005-00-4	hydroquinoneAcute Tox. 4 (H302), Aquatic Acute 1 (H400), Carc. 2 (H351),Eye Dam. 1 (H318), Muta. 2 (H341), Skin Sens. 1 (H317)♦ ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	≥ 0.025 - < 0.1 Vol-%

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

# **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### **General information:**

Immediately remove any contaminated clothing, shoes or stockings.

#### Following inhalation:

Fresh air supply, respiratory care if necessary, warmth. Consult a doctor if symptoms persist. If unconscious, position and transport in stable lateral position.



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#### In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. Consult a doctor if symptoms persist.

#### After eye contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Rinse cautiously with water for several minutes.

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

#### Following ingestion:

Rinse out mouth immediately and drink plenty of water.

Do NOT induce vomiting. Seek medical advice immediately and show this container or label.

#### **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 media:

Carbon dioxide (CO2), Extinguishing powder, Water spray jet. Fight larger fires with water spray or alcohol-resistant foam.

#### Unsuitable extinguishing media:

Water in full jet

# 5.2. Special hazards arising from the substance or mixture

Formation of toxic gases when heated or in case of fire.

### Hazardous combustion products:

Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2) Risk of formation of toxic pyrolysis products. Under certain fire conditions, traces of other toxic substances cannot be excluded.

# 5.3. Advice for firefighters

Special protective equipment for firefighters: Wear self-contained breathing apparatus. Do not inhale explosion and combustion gases.

#### 5.4. Additional information

Cool endangered containers with water spray. Fire residues and contaminated extinguishing water must be disposed of in accordance with official regulations.

# **SECTION 6: Accidental release measures**

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

#### 6.1.1. For non-emergency personnel

#### Personal precautions:

Provide adequate ventilation. Use respiratory protection when exposed to vapours/dust/aerosol. Avoid contact with eyes and skin.

#### 6.1.2. For emergency responders

No data available

#### 6.2. Environmental precautions

In case of spillage into water or sewage system, inform the competent authorities. Do not allow to enter into surface water or drains.

# 6.3. Methods and material for containment and cleaning up

#### For cleaning up:

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).



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#### **Other information:**

Provide adequate ventilation. Dispose of the ingested material in accordance with the regulations.

### 6.4. Reference to other sections

See section 7 for further information on safe handling. For further information on personal protective equipment: see section 8. For further information on disposal: see section 13.

# **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

#### **Protective measures**

#### Advices on safe handling:

Ensure good ventilation/extraction at the workplace.

Ensure good room ventilation also in the floor area (vapours are heavier than air).

#### Fire prevent measures:

Keep away from sources of ignition - No smoking.

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

#### Requirements for storage rooms and vessels:

Keep/Store only in original container.

# Hints on storage assembly:

Not required.

**Storage class (TRGS 510, Germany):** 10 - 13 – Other combustible and non-combustible substances **Further information on storage conditions:** 

Store in a cool, dry place in well-sealed containers. Protect from heat and direct sunlight.

#### 7.3. Specific end use(s)

**Recommendation:** 

No further relevant information available.

**SECTION 8: Exposure controls/personal protection** 

#### \* 8.1. Control parameters

# 8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	<ol> <li>Long-term occupational exposure limit value</li> <li>Short-term occupational exposure limit value</li> <li>Instantaneous value</li> <li>Monitoring and observation processes</li> <li>Remark</li> </ol>
MAK (AT)	<b>ethyl 2-cyanoacrylate</b> CAS No.: 7085-85-0 EC No.: 230-391-5	<ol> <li>2 ppm (9 mg/m<sup>3</sup>)</li> </ol>
MAK (AT)	<b>hydroquinone</b> CAS No.: 123-31-9 EC No.: 204-617-8	<ol> <li>2 mg/m<sup>3</sup></li> <li>(einatembare Fraktion) III B, S</li> </ol>
MAK (AT)	hydroquinone CAS No.: 123-31-9 EC No.: 204-617-8	<ul> <li>2 4 mg/m<sup>3</sup></li> <li>(einatembare Fraktion max. 8x5 min./Schicht, Momentanwert) III B, S</li> </ul>

# 8.1.2. Biological limit values

No data available



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Substance name	DNEL value	<ol> <li>DNEL type</li> <li>Exposure route</li> </ol>	
ethyl 2-cyanoacrylate CAS No.: 7085-85-0 EC No.: 230-391-5	9.25 mg/m <sup>3</sup>	<ol> <li>DNEL worker</li> <li>Long-term - inhalation, systemic effects</li> </ol>	
<b>ethyl 2-cyanoacrylate</b> CAS No.: 7085-85-0 EC No.: 230-391-5	9.25 mg/m <sup>3</sup>	<ol> <li>DNEL Consumer</li> <li>Long-term - inhalation, systemic effects</li> </ol>	
ethyl 2-cyanoacrylate CAS No.: 7085-85-0 EC No.: 230-391-5	9.25 mg/m <sup>3</sup>	<ol> <li>DNEL worker</li> <li>Long-term - inhalation, local effects</li> </ol>	
<b>ethyl 2-cyanoacrylate</b> CAS No.: 7085-85-0 EC No.: 230-391-5	9.25 mg/m <sup>3</sup>	<ol> <li>DNEL Consumer</li> <li>Long-term - inhalation, local effects</li> </ol>	
<b>hydroquinone</b> CAS No.: 123-31-9 EC No.: 204-617-8	1.74 mg/m <sup>3</sup>	<ol> <li>DNEL worker</li> <li>Long-term - inhalation, systemic effects</li> </ol>	
<b>hydroquinone</b> CAS No.: 123-31-9 EC No.: 204-617-8	7 mg/m³	<ol> <li>DNEL worker</li> <li>Long-term - inhalation, systemic effects</li> </ol>	
<b>hydroquinone</b> CAS No.: 123-31-9 EC No.: 204-617-8	0.5 mg/m <sup>3</sup>	<ol> <li>DNEL worker</li> <li>Long-term - inhalation, local effects</li> </ol>	
<b>hydroquinone</b> CAS No.: 123-31-9 EC No.: 204-617-8	1 mg/m³	<ol> <li>DNEL worker</li> <li>Long-term – inhalation, local effects</li> </ol>	
<b>hydroquinone</b> CAS No.: 123-31-9 EC No.: 204-617-8	128 mg/kg bw/ day	<ol> <li>DNEL worker</li> <li>Long-term - dermal, systemic effects</li> </ol>	
<b>hydroquinone</b> CAS No.: 123-31-9 EC No.: 204-617-8	64 mg/kg bw/ day	<ol> <li>DNEL Consumer</li> <li>Long-term - dermal, systemic effects</li> </ol>	
Substance name	PNEC Value	① PNEC type	
<b>hydroquinone</b> CAS No.: 123-31-9 EC No.: 204-617-8	0.114 mg/L	① PNEC aquatic, freshwater	
<b>hydroquinone</b> CAS No.: 123-31-9 EC No.: 204-617-8	0.0114 mg/L	<ol> <li>PNEC aquatic, marine water</li> </ol>	
<b>hydroquinone</b> CAS No.: 123-31-9 EC No.: 204-617-8	0.71 mg/L	(1) PNEC sewage treatment plant	
<b>hydroquinone</b> CAS No.: 123-31-9 EC No.: 204-617-8	0.00098 mg/ kg	(1) PNEC sediment, freshwater	
<b>hydroquinone</b> CAS No.: 123-31-9 EC No.: 204-617-8	0.000097 mg/ kg	(1) PNEC sediment, marine water	
<b>hydroquinone</b> CAS No.: 123-31-9 EC No.: 204-617-8	0.000129 mg/ kg	① PNEC soil	

# **8.2. Exposure controls**

8.2.1. Appropriate engineering controls

No data available

# 8.2.2. Personal protection equipment

### Eye/face protection:

Safety goggles





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#### Skin protection:

Hand protection: Wear protective gloves. (EN 374) Check protective gloves for proper condition before each use. The glove material must be impermeable and resistant to the product / substance / preparation. Selection of the glove material considering the breakthrough times, permeation rates and degradation. Glove material: Breakthrough time: 60 min. Butyl, Nr. 0898

Breakthrough time: 30 min. Chloroprene Nitrile II, Nr. 0717 Nitril I, Nr. 0730, 0732, 0733, 0736, 0737, 0738, 0739 oder 0836 Viton, Nr. 0890 Butyl II, Nr. 0897

This recommendation is based exclusively on chemical compatibility and testing according to EN 374 under laboratory conditions. Depending on the application, different requirements may arise. Therefore, the recommendations of the protective glove supplier must also be taken into account. The selection of a suitable glove depends not only on the material but also on other quality features and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of glove materials cannot be calculated in advance and must therefore be checked before use. The exact breakthrough time must be obtained from the protective glove manufacturer and must be observed. Gloves made of the following materials are not suitable: Fabric gloves

#### **Respiratory protection:**

In case of inadequate ventilation wear respiratory protection. Filter B

#### Other protection measures:

General protective and hygienic measures: The usual precautions when handling chemicals must be observed. Keep away from food, drink and animal feed. Remove contaminated, saturated clothing immediately. Wash hands before breaks and after work. Do not inhale gases/vapours/aerosols. Avoid contact with eyes and skin.

#### 8.2.3. Environmental exposure controls

No data available

#### 8.3. Additional information

No further relevant information available.

# **SECTION 9: Physical and chemical properties**

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

#### Appearance

Physical state: Liquid Odour: characteristic Odour threshold: not determ Colour: colourless flammability: No data available

Odour threshold: not determined

Safety relevant basis data

Parameter	Value	at °C	<ol> <li>Method</li> <li>Remark</li> </ol>
рН	No data available		
Melting point	No data available		
Freezing point	No data available		
Initial boiling point and boiling range	> 35 °C		
Flash point	> 80 °C		
Evaporation rate	No data available		

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Parameter	Value	at °C	1 Method
			② Remark
Auto-ignition temperature	No data available		
Upper/lower flammability or explosive limits	No data available		
Vapour pressure	No data available		
Vapour density	No data available		
Density	1.05 g/cm <sup>3</sup>	20 °C	1 DIN 51757
Bulk density	not applicable		
Water solubility	Immiscible		
Dynamic viscosity	20 - 40 mPa* s	20 °C	
Kinematic viscosity	No data available		
Self ignition temperature	not applicable		② The product is not self-igniting.

# 9.2. Other information

The product is not explosive.

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No further relevant information available.

#### 10.2. Chemical stability

Thermal decomposition/Conditions to avoid: Protect from heat and direct sunlight.

#### 10.3. Possibility of hazardous reactions

Polymerisation under heat development. Reacts with alcohols, amines, aqueous acids and alkalis.

#### 10.4. Conditions to avoid

No further relevant information available.

#### 10.5. Incompatible materials

No further relevant information available.

#### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

# **SECTION 11: Toxicological information**

# 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

ethyl 2-cyanoacrylate CAS No.: 7085-85-0 EC No.: 230-391-5

**LD<sub>50</sub> oral:** >5,000 mg/kg (Rat) OECD 401

LD<sub>50</sub> dermal: >2,000 mg/kg (Rabbit) OECD 402

hydroquinone CAS No.: 123-31-9 EC No.: 204-617-8

**LD<sub>50</sub> oral:** 375 mg/kg (Rat) OECD 401

LD<sub>50</sub> dermal: >2,000 mg/kg (Rabbit) OECD 402

#### Acute oral toxicity:

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

#### Acute dermal toxicity:

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

#### Acute inhalation toxicity:

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

#### Skin corrosion/irritation:

Causes skin irritation.

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Serious eye damage/irritation: Causes serious eye irritation. Respiratory or skin sensitisation: Based on available data, the classification criteria are not met. Germ cell mutagenicity: Based on available data, the classification criteria are not met. **Carcinogenicity:** Based on available data, the classification criteria are not met. **Reproductive toxicity:** Based on available data, the classification criteria are not met. **STOT-single exposure:** 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 information: No data available 11.2. Information on other hazards Endocrine disrupting properties: None of the ingredients are included.

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

hydroquinone CAS No.: 123-31-9 EC No.: 204-617-8

LC50: 0.638 mg/L 4 d (fish, Oncorhynchus mykiss) OECD 203

**EC<sub>50</sub>:** 0.061 mg/L 2 d (crustaceans, Daphnia magna)

EC<sub>50</sub>: 0.335 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata) OECD 201

EC<sub>50</sub>: 0.162 - 0.29 mg/L 2 d (crustaceans, Daphnia magna) OECD 202

NOEC: 0.0057 mg/L 21 d (crustaceans, Daphnia magna) OECD 211

#### Aquatic toxicity:

No further relevant information available.

### 12.2. Persistence and degradability

hydroquinone CAS No.: 123-31-9 EC No.: 204-617-8 Biodegradation: Yes, rapidly

#### Additional information:

No further relevant information available.

#### 12.3. Bioaccumulative potential

hydroquinone CAS No.: 123-31-9 EC No.: 204-617-8

Bioconcentration factor (BCF): 40

#### Accumulation / Evaluation:

No further relevant information available.

#### 12.4. Mobility in soil

No further relevant information available.

# 12.5. Results of PBT and vPvB assessment

ethyl 2-cyanoacrylate CAS No.: 7085-85-0 EC No.: 230-391-5

#### Results of PBT and vPvB assessment: —

hydroquinone CAS No.: 123-31-9 EC No.: 204-617-8

Results of PBT and vPvB assessment: -

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

### 12.6. Endocrine disrupting properties

None of the ingredients are included.

# 12.7. Other adverse effects

Drinking water hazard even when small quantities leak into the subsoil.

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Dispose of waste according to applicable legislation.

#### 13.1.1. Product/Packaging disposal

### Waste codes/waste designations according to EWC/AVV

#### Waste code product

\*

08 04 09 \* Waste adhesives and sealants containing organic solvents or other dangerous substances \*: Evidence for disposal must be provided.

#### Waste treatment options

#### Appropriate disposal / Package:

Uncleaned packaging: Dispose of waste according to applicable legislation.

# **SECTION 14: Transport information**

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI ) IATA-DGR)
14.1. UN number or	ID number		
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	UN 3334
14.2. UN proper ship	oping name		
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	AVIATION REGULATED LIQUID, N.O.S. (heptane)
14.3. Transport haza	rd class(es)	<u>`</u>	
not relevant	not relevant	not relevant	9
14.4. Packing group	<u>-</u>		
not relevant	not relevant	not relevant	III
14.5. Environmental	hazards		
not relevant	not relevant	not relevant	No
14.6. Special precau	tions for user		
not relevant	not relevant	not relevant	Special Provisions: A27
			Limited quantity (LQ): Y964
			Excepted Quantities (EQ): E1
			Remark: Attention: Gases

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# **SECTION 15: Regulatory information**

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

#### 15.1.1. EU legislation

#### **Restrictions on use:**

Regulation (EC) No 1907/2006 ANNEX XVII: Restriction conditions: 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 are included.

Regulation (EU) 2019/1148

Annex I - RESTRICTED EXPORT SUBSTANCES FOR EXPLOSIVES (upper concentration limit for a permit pursuant to Article 5(3)): None of the ingredients are included.

Annex II - EXPLOSIVES REPORTABLE FOR EXPLOSIVES: None of the ingredients are included.

Regulation (EC) No 273/2004 on drug precursors: None of the ingredients are included.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade in drug precursors between the Community and third countries: None of the ingredients are included.

# 15.1.2. National regulations

No data available

### 15.2. Chemical Safety Assessment

A chemical safety assessment has not been carried out.

# **SECTION 16: Other information**

### \* **16.1. Indication of changes**

- 3.2. Mixtures
- 8.1.
   Control parameters

   9.1.
   Information on basic physical and chemical properties

   14.3.
   Transport hazard class(es)

   16.1.
   Indication of changes

   16.2.
   Abbreviations and acronyms

# \* 16.2. Abbreviations and acronyms

- ACGIH American Conference of Governmental Industrial Hygienists
  - ADN European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
  - ADR European Agreement concerning the International Carriage of Dangerous Goods by Road BCF Bioconcentration Factor
  - CAS Chemical Abstracts Service
  - CLP Classification, Labelling and Packaging
- DIN German Institute for Standardization / German Industrial Standard
- DNEL derived no-effect level
- EC<sub>50</sub> Effective Concentration 50%
- EN European Standard
- ES Exposure scenario
- EWC European Waste Catalogue
- ICAO International Civil Aviation Organization
- IMDG International Maritime Dangerous Goods
- IMO International Maritime Organization
- ISO International Standards Organisation
- KG body weight
- LC<sub>50</sub> Lethal (fatal) Concentration 50%
- LD<sub>50</sub> Lethal (fatal) Dose 50%
- MAK Maximum concentration in the workplace air (CH)
- NFPA National Fire Protection Association
- NIOSH National Institute for Occupational Safety & Health
- NOEC No Observed Effect Concentration
- OECD Organisation for Economic Cooperation and Development



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OSHA PBT PNEC REACH RID SCL TRGS UN	Occupational Safety & Health Administration persistent and bioaccumulative and toxic Predicted No Effect Concentration Registration, Evaluation and Authorization of Chemicals Dangerous goods regulations for transport by rail Specific concentration limit Technische Regeln für Gefahrstoffe United Nations
	5
	,

# 16.3. Key literature references and sources for data

No data available

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
Skin corrosion/irritation (Skin Irrit. 2)	H315: Causes skin irritation.	
Serious eye damage/eye irritation (Eye Irrit. 2)	H319: Causes serious eye irritation.	
STOT-single exposure (STOT SE 3)	H335: May cause respiratory irritation.	

# 16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

Hazard statements	
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.

# 16.6. Training advice

No data available

# 16.7. Additional information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-mentioned supplier nor its subsidiaries assume any liability with regard to the correctness or completeness of the information provided. A final determination of the suitability of individual materials is the sole responsibility of the user. All materials may involve unknown risks and should be used with caution. While certain risks are described herein, we cannot guarantee that these are the only possible risks.

\* Data changed compared with the previous version.