

# SAFETY DATA SHEET

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

Revision date: 19 Nov 2020

Print date: 3 Jul 2023

Version: 1



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## Betochem 2514

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

#### 1.1. Product identifier

Trade name/designation:

Betochem 2514

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

Use of the substance/mixture:

Highly active accelerator for resin foam

Relevant identified uses:

**Life cycle stage [LCS]**

**PW:** Widespread use by professional workers

**C:** Consumer use

**Sector of uses [SU]**

**SU 19:** Building and construction work

**Product Categories [PC]**

**PC 1:** Adhesives, sealants

**Process categories [PROC]**

**PROC 0:** Other

**Article categories [AC]**

**AC 0:** Other

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

**Supplier (manufacturer/importer/only representative/downstream user/distributor):**

**Deys Betontechniek Nederland BV**

Gelreweg 5

3840AH Harderwijk

Netherlands

**Telephone:** 0031341415148

**E-mail:** info@deys.nl

**Website:** www.deys.nl

**E-mail (competent person):** info@deys.nl

#### 1.4. Emergency telephone number

24h: 0341 41 51 48 or +31 (0) 30 / 274 88 88

### 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
flammable liquids ( <i>Flam. Liq. 3</i> )	H226: Flammable liquid and vapour.	On basis of test data.
Acute toxicity (oral) ( <i>Acute Tox. 4</i> )	H302: Harmful if swallowed.	Calculation method.
Acute toxicity (dermal) ( <i>Acute Tox. 4</i> )	H312: Harmful in contact with skin.	Calculation method.
Skin corrosion/irritation ( <i>Skin Corr. 1B</i> )	H314: Causes severe skin burns and eye damage.	Calculation method.
Serious eye damage/eye irritation ( <i>Eye Dam. 1</i> )	H318: Causes serious eye damage.	Calculation method.
Acute toxicity (inhalative) ( <i>Acute Tox. 4</i> )	H332: Harmful if inhaled.	Calculation method.

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### 2.2. Label elements

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

Hazard pictograms:



**GHS02**  
Flame



**GHS05**  
Corrosion



**GHS07**  
Exclamation mark

Signal word: Danger

#### Hazard statements for physical hazards

H226	Flammable liquid and vapour.
------	------------------------------

#### Hazard statements for health hazards

H302 + H312 + H332	Harmful if swallowed, in contact with skin or if inhaled.
--------------------	---

H314	Causes severe skin burns and eye damage.
------	--

Supplemental hazard information: none

#### Precautionary statements Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
------	--

P280	Wear protective gloves/protective clothing/eye protection/face protection.
------	--

#### Precautionary statements Response

P301 + P330 + P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
--------------------	--

P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
--------------------	--

P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
-------------	--

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

### 2.3. Other hazards

No data available

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
<b>CAS No.:</b> 108-01-0 <b>EC No.:</b> 203-542-8 <b>Index No.:</b> 603-047-00-0 <b>REACH No.:</b> 01-2119492298-24-XXXX	<b>2-dimethylaminoethanol</b> Acute Tox. 4 (H332, H312, H302), Flam. Liq. 3 (H226), Skin Corr. 1B (H314) <b>Danger</b> <b>Specific concentration limit (SCL)</b> STOT SE 3; H335: C ≥ 5%	36 - < 60 weight-%
<b>CAS No.:</b> 280-57-9 <b>EC No.:</b> 205-999-9 <b>REACH No.:</b> 01-2119980944-22-XXXX	<b>1,4-diazabicyclooctane</b> Acute Tox. 4 (H302), Aquatic Chronic 3 (H412), Eye Irrit. 2 (H319), Flam. Sol. 1 (H228), STOT SE 3 (H335), Skin Irrit. 2 (H315) <b>Danger</b>	3 - < 6 weight-%

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

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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended. Warning First aider: Pay attention to self-protection!

##### Following inhalation:

Provide fresh air. In case of respiratory tract irritation, consult a physician. Get medical advice/attention.

##### In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing. Sterile bandage. If skin irritation or rash occurs: Get medical advice/attention.

##### 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:

Rinse mouth. Let water be drunken in little sips (dilution effect). Get medical advice/attention if you feel unwell. Do NOT induce vomiting.

##### Self-protection of the first aider:

Use personal protection equipment. Avoid contact with skin, eyes and clothes.

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

Vomiting, Cough, Headache, Nausea. Skin corrosion/irritation. Serious eye damage/eye irritation. Ingestion may cause aspiration into the lungs.

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

Treat symptomatically. Medical monitoring for at least 24 hours.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media:

Water spray jet, alcohol resistant foam, Extinguishing powder, Carbon dioxide.

##### Unsuitable extinguishing media:

Full water jet.

#### 5.2. Special hazards arising from the substance or mixture

##### Hazardous combustion products:

In case of fire: Gases/vapours, toxic

In case of fire may be liberated: Nitrogen oxides (NOx), Carbon dioxide, Carbon monoxide, Ammonia (NH3).

#### 5.3. Advice for firefighters

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

#### 5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Cool endangered containers with water spray. Heating causes rise in pressure with risk of bursting. Dispose of fire debris and contaminated extinguishing water 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:

Remove persons to safety. Keep away unprotected persons. Avoid contact with skin, eyes and clothes. Provide adequate ventilation.

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### Protective equipment:

Wear protective gloves/protective clothing/eye protection/face protection.

### 6.1.2. For emergency responders

#### Personal protection equipment:

Personal protection equipment: see section 8

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

### 6.3. Methods and material for containment and cleaning up

#### For containment:

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

#### For cleaning up:

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

For large amounts: Pick up with suitable appliance and dispose of.

Wear breathing protection during cleaning measures. Clean contaminated articles and floor according to the environmental legislation. Collect waste in suitable containers, which can be labelled and sealed. Dispose of waste according to applicable legislation.

#### Other information:

Provide adequate ventilation.

### 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

### 6.5. Additional information

Use appropriate container to avoid environmental contamination.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Protective measures

#### Advices on safe handling:

Wear personal protection equipment (refer to section 8).

Ensure good ventilation/exhaustion at the workplace. Avoid contact with skin, eyes and clothes. Provide washing facilities in the work area. Avoid splashing. Do not leave containers open.

#### Fire prevent measures:

Combustible. Vapours may form an ignitable mixture with air. Take precautionary measures against static discharges. Keep away from sources of ignition - No smoking. Fire extinguishers should be kept handy.

#### Advices on general occupational hygiene

When using do not eat, drink or smoke. Avoid contact with eyes and skin. Handle in accordance with good industrial hygiene and safety practice. Wash hands and face before breaks and after work and take a shower if necessary. Remove contaminated, saturated clothing immediately. Separate storage of work clothes.

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

#### Technical measures and storage conditions:

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

#### Hints on storage assembly:

Do not store together with: acids and acid forming substances

#### Storage class (TRGS 510, Germany): 3 - Flammable liquids

#### Further information on storage conditions:

Remove all sources of ignition.

storage temperature: < 40°C

### 7.3. Specific end use(s)

#### Recommendation:

Observe technical data sheet.

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### 8.1.1. Occupational exposure limit values

No data available

##### 8.1.2. Biological limit values

No data available

##### 8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
2-dimethylaminoethanol CAS No.: 108-01-0 EC No.: 203-542-8	7.4 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, systemic effects
2-dimethylaminoethanol CAS No.: 108-01-0 EC No.: 203-542-8	22 mg/m <sup>3</sup>	① DNEL worker ② Acute - inhalation, systemic effects
2-dimethylaminoethanol CAS No.: 108-01-0 EC No.: 203-542-8	7.4 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, local effects
2-dimethylaminoethanol CAS No.: 108-01-0 EC No.: 203-542-8	22 mg/m <sup>3</sup>	① DNEL worker ② Acute - inhalation, local effects
2-dimethylaminoethanol CAS No.: 108-01-0 EC No.: 203-542-8	1.04 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
2-dimethylaminoethanol CAS No.: 108-01-0 EC No.: 203-542-8	5 mg/kg bw/ day	① DNEL worker ② Acute - dermal, systemic effects

Substance name	PNEC Value	① PNEC type
2-dimethylaminoethanol CAS No.: 108-01-0 EC No.: 203-542-8	0.0661 mg/L	① PNEC aquatic, freshwater
2-dimethylaminoethanol CAS No.: 108-01-0 EC No.: 203-542-8	0.00661 mg/L	① PNEC aquatic, marine water
2-dimethylaminoethanol CAS No.: 108-01-0 EC No.: 203-542-8	10 mg/L	① PNEC sewage treatment plant
2-dimethylaminoethanol CAS No.: 108-01-0 EC No.: 203-542-8	0.0529 mg/kg	① PNEC sediment, freshwater
2-dimethylaminoethanol CAS No.: 108-01-0 EC No.: 203-542-8	0.0661 mg/L	① PNEC aquatic, intermittent release

#### 8.2. Exposure controls

##### 8.2.1. Appropriate engineering controls

No data available

##### 8.2.2. Personal protection equipment

###### Eye/face protection:

Eye glasses with side protection EN 166

###### Skin protection:

Tested protective gloves must be worn EN ISO 374

Suitable material: NBR (Nitrile rubber)

Thickness of the glove material: 0,4 mm.

Suitable material: FKM (fluoro rubber)

Thickness of the glove material: 0,7 mm.

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Permeation time (maximum wear duration):: 8h.

In the case of wanting to use the gloves again, clean them before taking off and air them well. Breakthrough times and swelling properties of the material must be taken into consideration. Check leak tightness/impermeability prior to use. Protective gloves shall be replaced immediately when physically damaged or worn.

### Respiratory protection:

Respiratory protection necessary at: when vapours/aerosols are generated. Suitable eye protection: Self-contained respirator (breathing apparatus).

### 8.2.3. Environmental exposure controls

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

## SECTION 9: Physical and chemical properties

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

#### Appearance

Physical state: Liquid

Colour: yellowish

Odour: Amines

#### Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	12	20 °C	② 5,00 g/l
Melting point	-60 °C		
Freezing point	<i>not determined</i>		
Initial boiling point and boiling range	162 - 165 °C		
Decomposition temperature	<i>not determined</i>		
Flash point	41 °C		
Evaporation rate	<i>not determined</i>		
Auto-ignition temperature	215 °C		
Upper/lower flammability or explosive limits	<i>not determined</i>		
Vapour pressure	3.17 hPa	21.5 °C	
Vapour density	<i>not determined</i>		
Density	0.95 g/mL	20 °C	
Relative density	<i>not determined</i>		
Bulk density	<i>not determined</i>		
Water solubility	13.4 g/L	20 °C	
Partition coefficient: n-octanol/water	<i>not determined</i>		
Dynamic viscosity	1.16 mPa* s	25 °C	
Kinematic viscosity	1.176 mm <sup>2</sup> /s		

### 9.2. Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Flammable liquid and vapour. Formation of explosive mixtures with:

### 10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature. The product can become unstable at elevated temperatures and under pressure.

### 10.3. Possibility of hazardous reactions

Exothermic reaction with: Acids, Isocyanates, strong oxidant.

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### 10.4. Conditions to avoid

Sources of ignition: Heat, flames and sparks.

### 10.5. Incompatible materials

copper, Aluminium, Zinc.

### 10.6. Hazardous decomposition products

Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx).

## SECTION 11: Toxicological information

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

<b>2-dimethylaminoethanol</b> CAS No.: 108-01-0 EC No.: 203-542-8
---

LD <sub>50</sub> oral: 1,183 mg/kg (Rat) OECD 401
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LD <sub>50</sub> dermal: 1,219 mg/kg (Rabbit) OECD 402
--

LC <sub>50</sub> Acute inhalation toxicity (vapour): 6.1 mg/L 4 h (Rat) OECD 403
--

<b>1,4-diazabicyclooctane</b> CAS No.: 280-57-9 EC No.: 205-999-9
---

LD <sub>50</sub> oral: 700 mg/kg (Rat)
--

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

#### Acute oral toxicity:

Harmful if swallowed.

#### Acute dermal toxicity:

Harmful in contact with skin.

#### Acute inhalation toxicity:

Harmful if inhaled.

#### Skin corrosion/irritation:

Causes severe skin burns and eye damage.

#### Serious eye damage/irritation:

Causes serious eye damage.

#### 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:

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

#### 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

No data available

## SECTION 12: Ecological information

### 12.1. Toxicity

<b>2-dimethylaminoethanol</b> CAS No.: 108-01-0 EC No.: 203-542-8
---

LC <sub>50</sub> : 146.6 mg/L 4 d (fish, <i>Leuciscus idus</i> (golden orfe)) DIN 38412 / part 15
---

EC <sub>50</sub> : 98.4 mg/L 2 d (crustaceans, <i>Daphnia magna</i> (Big water flea))
---

EC <sub>50</sub> : 66.1 mg/L 3 d (Algae/water plant, <i>Scenedesmus subspicatus</i> ) DIN 38412 / part 9
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**1,4-diazabicyclooctane** CAS No.: 280-57-9 EC No.: 205-999-9

**LC<sub>50</sub>**: 681 mg/L 4 d (fish, *Leuciscus idus* (golden orfe))

**EC<sub>50</sub>**: >100 mg/L 2 d (crustaceans, *Daphnia magna* (Big water flea))

**EC<sub>50</sub>**: 110 mg/L 3 d (Algae/water plant, *Pseudokirchneriella subcapitata*)

**ErC<sub>50</sub>**: 56 mg/L 3 d (Algae/water plant, *Pseudokirchneriella subcapitata*)

### 12.2. Persistence and degradability

**2-dimethylaminoethanol** CAS No.: 108-01-0 EC No.: 203-542-8

**Biodegradation**: Yes, rapidly

### 12.3. Bioaccumulative potential

**2-dimethylaminoethanol** CAS No.: 108-01-0 EC No.: 203-542-8

**Log K<sub>OW</sub>**: -0.55

### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

**1,4-diazabicyclooctane** CAS No.: 280-57-9 EC No.: 205-999-9

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

### 12.6. Endocrine disrupting properties

No data available

### 12.7. Other adverse effects

No data available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### 13.1.1. Product/Packaging disposal

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

##### Waste code product

07 01 04 \* other organic solvents, washing liquids and mother liquors

14 06 03 \* other solvents and solvent mixtures

\*: Evidence for disposal must be provided.

##### Remark:

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

The waste code numbers mentioned are recommendations based on the probable use of the product. Due to specific use and disposal circumstances at the user other waste codes may be suitable.

##### Waste code packaging

15 01 10 \* packaging containing residues of or contaminated by dangerous substances

\*: Evidence for disposal must be provided.

##### Remark:

Packing which cannot be properly cleaned must be disposed of.

### Waste treatment options

#### Appropriate disposal / Product:

Consult the appropriate local waste disposal expert about waste disposal.

### 13.2. Additional information

Do not allow to enter into surface water or drains. Dispose of contents/container to hazardous or special waste collection point.



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### SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)
<b>14.1. UN number or ID number</b>		
UN 2051	UN 2051	UN 2051
<b>14.2. UN proper shipping name</b>		
2-DIMETHYLAMINOETHANOL	2-DIMETHYLAMINOETHANOL	2-DIMETHYLAMINOETHANOL
<b>14.3. Transport hazard class(es)</b>		
 8	 3	 8
<b>14.4. Packing group</b>		
II	II	-
<b>14.5. Environmental hazards</b>		
No	No	No data available
<b>14.6. Special precautions for user</b>		
<b>Limited quantity (LQ):</b> 1 L <b>Hazard identification number (Kemler No.):</b> 83 <b>Classification code:</b> CF1 <b>Tunnel restriction code:</b> (D/E)	<b>Limited quantity (LQ):</b> 1 L <b>Classification code:</b> CF1	<b>Limited quantity (LQ):</b> 1 L <b>EmS-No.:</b> F-E, S-C

### 14.7. Maritime transport in bulk according to IMO instruments

No data available

### SECTION 15: Regulatory information

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

##### 15.1.1. EU legislation

No data available

##### 15.1.2. National regulations

###### [DE] National regulations

##### Restrictions of occupation

22 ArbSchG.

Observe employment restrictions for pregnant and nursing mothers according to the 'mother protection guideline' (§ 4 und § 5 MuSchArbV).

##### Water hazard class

###### WGK:

1 - schwach wassergefährdend

##### Technische Regeln für Gefahrstoffe

TRGS 500

TRGS 900

TRGS 903

##### Berufsgenossenschaftliche Vorschriften (DGUV-Vorschriften)

Berufsgenossenschaftliche Regeln (BGR) 190 Use of respiratory protective equipment

#### 15.2. Chemical Safety Assessment

For this substance a chemical safety assessment has not been carried out.

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### SECTION 16: Other information

#### 16.1. Indication of changes

9.1. Information on basic physical and chemical properties

#### 16.2. Abbreviations and acronyms

For abbreviations and acronyms, see table on the eSDScom website

#### 16.3. Key literature references and sources for data

Safety data sheets of raw material suppliers.

BAM: Datenbank GEFAHRGUT der Bundesanstalt für Materialforschung und -prüfung

eChemPortal: The Global Portal to Information on Chemical Substances

GESTIS: Stoffdatenbank des Instituts für Arbeitsschutz der Deutschen Gesetzlichen Unfallversicherung (IFA)

GisBAU: Gefahrstoffinformationssystem der Berufsgenossenschaft Bau

GisChem: Gefahrstoffinformationssystem der Berufsgenossenschaft Chemie

GSBL: Gemeinsamer Stoffdatenpool Bund / Länder

#### 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
flammable liquids ( <i>Flam. Liq. 3</i> )	H226: Flammable liquid and vapour.	On basis of test data.
Acute toxicity (oral) ( <i>Acute Tox. 4</i> )	H302: Harmful if swallowed.	Calculation method.
Acute toxicity (dermal) ( <i>Acute Tox. 4</i> )	H312: Harmful in contact with skin.	Calculation method.
Skin corrosion/irritation ( <i>Skin Corr. 1B</i> )	H314: Causes severe skin burns and eye damage.	Calculation method.
Serious eye damage/eye irritation ( <i>Eye Dam. 1</i> )	H318: Causes serious eye damage.	Calculation method.
Acute toxicity (inhalative) ( <i>Acute Tox. 4</i> )	H332: Harmful if inhaled.	Calculation method.

#### 16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements	
H226	Flammable liquid and vapour.
H228	Flammable solid.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

#### 16.6. Training advice

No data available

#### 16.7. Additional information

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.

\* Data changed compared with the previous version.