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

#### 1.1. Product identifier

Trade name/designation:

Top Plast Eco transparent 50 sec. 50ml (Comp. B)

#### **Article No.:**

T910204

UFI:

1MN1-4DVT-QRFW-6UH3

# 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:

### **Techniqua Handels GmbH**

Hartleitnerstraße 3 4653 Eberstalzell

Austria

Telephone: +43 (0) 7241 213 79 E-mail: office@techniqua.at

## 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 |
|--|--|--------------------------|
| Serious eye damage/eye irritation (Eye Irrit. 2) | H319: Causes serious eye irritation.       |                          |
| Respiratory or skin sensitisation (Skin Sens. 1) | H317: May cause an allergic skin reaction. |                          |

### 2.2. Label elements

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



**GHS07** Exclamation mark

Signal word: Warning

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#### Hazard components for labelling:

dimethylbis[(1-oxoneodecyl)oxy]stannane

| Hazard statements for health hazards |                                      |
|--------------------------------------|--------------------------------------|
| H317                                 | May cause an allergic skin reaction. |
| H319                                 | Causes serious eye irritation.       |

| Precautionary statements Prevention                  |  |  |
|--|--|--|
| P261 Avoid breathing vapours and spray.              |  |  |
| P280 Wear protective gloves and eye/face protection. |  |  |

| Precautionary statements Response                     |  |
|---|--|
| P314 Get medical advice/attention if you feel unwell. |  |

#### 2.3. Other hazards

#### Other adverse effects:

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. The product does not contain any substances with endocrine-disrupting properties in concentrations of  $\geq$  0.1%.

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

#### 3.2. Mixtures

Hazardous ingredients / Hazardous impurities / Stabilisers:

| Product identifiers  | Substance name<br>Classification according to Regulation (EC) No 1272/2008 [CLP]   | Concentration      |
|--|--|--------------------|
| CAS No.: 102-60-3<br>EC No.: 203-041-4<br>REACH No.:<br>01-2119552434-41   | 1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol Eye Irrit. 2 (H319)  • Warning   | 10 - < 25<br>Vol-% |
| CAS No.: 68928-76-7<br>EC No.: 273-028-6<br>REACH No.:<br>01-2120770324-57 | dimethylbis[(1-oxoneodecyl)oxy]stannane Acute Tox. 4 (H302), Aquatic Chronic 3 (H412), Skin Irrit. 2 (H315), Skin Sens. 1A (H317)  Warning | 1 - < 2.5<br>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:**

Never give anything by mouth to an unconscious person!

#### Following inhalation:

Fresh air supply, consult a doctor in case of complaints.

#### In case of skin contact:

Wash with plenty of soap and water. Immediately remove any contaminated clothing, shoes or stockings. In case of skin irritation, consult a physician.

## After eye contact:

First rinse with water for a long time, (remove contact lenses if this is easily possible), then consult a doctor.

#### Following ingestion:

Rinse mouth thoroughly with water. Drink plenty of water. Call a physician immediately.

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

First aider: Pay attention to self-protection!

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

If applicable, delayed symptoms and effects can be found in section 11. or in the routes of intake under section 4.1.

Symptoms of poisoning may not appear for many hours, therefore medical monitoring for at least 48 hours after an accident.

Eye redness, tearing of the eyes. Allergic reactions.

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

## **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

#### Suitable extinguishing media:

Adapt fire extinguishing measures to the surroundings.

Water spray jet, Foam, Carbon dioxide (CO2), Dry extinguishing powder

#### Unsuitable extinguishing media:

None known

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

## **Hazardous combustion products:**

Carbon oxides, Nitrogen oxides, toxic gases

#### 5.3. Advice for firefighters

Personal protection equipment: see section 8. Do not inhale explosion and combustion gases. Use suitable breathing apparatus.

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:

Wear personal protection equipment (refer to section 8). Provide adequate ventilation. Remove all sources of ignition. Avoid dust formation with solid or powdery products. Wear protective equipment. Keep unprotected persons away. Avoid contact with skin, eyes and clothes. If necessary, observe the risk of slipping.

## **Emergency procedures:**

Leave the danger zone as far as possible, use existing emergency plans if necessary.

#### 6.1.2. For emergency responders

#### **Personal protection equipment:**

Personal protection equipment: see section 8.

#### 6.2. Environmental precautions

Contain in case of escape of larger quantities. Stop leak if safe to do so. Do not allow to enter into surface water or drains. Prevent the product from entering waste water, surface water, ground water. In case of spillage into water or sewage system, inform the competent authorities.

#### 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).

#### 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. Avoid contact with skin, eyes and clothes. When using do not eat, drink, smoke, sniff. Take care for the labels and safety data sheets of the chemicals to be used.

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#### Advices on general occupational hygiene

The usual precautions when handling chemicals must be observed. Wash hands before breaks and after work. Keep away from food, drink and animal feed. Remove contaminated clothing and protective equipment before entering areas where food will be served.

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

## Technical measures and storage conditions:

Prevent access for unauthorised persons.

#### Requirements for storage rooms and vessels:

Do not store product in passageways and stairways. Keep only in the original container in a cool, well-ventilated place. Store at room temperature. Store in a dry place.

**Storage class (TRGS 510, Germany):** 10 - Combustible liquids that cannot be assigned to any of the above storage classes

## 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

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  |
| 1,1',1",1"'-<br>ethylenedinitrilotetrapropan-2-ol<br>CAS No.: 102-60-3<br>EC No.: 203-041-4  | 8.7 mg/m³              | ① DNEL worker<br>② Long-term – inhalation, systemic effects |
| 1,1',1"',1"'-<br>ethylenedinitrilotetrapropan-2-ol<br>CAS No.: 102-60-3<br>EC No.: 203-041-4 | 29.4 mg/m <sup>3</sup> | ① DNEL worker<br>② Long-term – inhalation, systemic effects |
| 1,1',1"',1"'-<br>ethylenedinitrilotetrapropan-2-ol<br>CAS No.: 102-60-3<br>EC No.: 203-041-4 | 2.5 mg/kg bw/<br>day   | ① DNEL worker<br>② Long-term - dermal, systemic effects     |
| 1,1',1"',1"'-<br>ethylenedinitrilotetrapropan-2-ol<br>CAS No.: 102-60-3<br>EC No.: 203-041-4 | 4.2 mg/kg bw/<br>day   | ① DNEL worker<br>② Long-term - dermal, systemic effects     |
| 1,1',1"',1"'-<br>ethylenedinitrilotetrapropan-2-ol<br>CAS No.: 102-60-3<br>EC No.: 203-041-4 | 2.5 mg/kg bw/<br>day   | ① DNEL worker<br>② Long-term - oral, systemic effects       |

| Substance name  | PNEC Value | ① PNEC type                  |
|---|------------|------------------------------|
| 1,1',1",1"'-<br>ethylenedinitrilotetrapropan-2-ol<br>CAS No.: 102-60-3<br>EC No.: 203-041-4 | 0.85 mg/L  | ① PNEC aquatic, freshwater   |
| 1,1',1",1"'-<br>ethylenedinitrilotetrapropan-2-ol<br>CAS No.: 102-60-3<br>EC No.: 203-041-4 | 0.085 mg/L | ① PNEC aquatic, marine water |

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| Substance name  | PNEC Value   | ① PNEC type                   |
|---|--------------|-------------------------------|
| 1,1',1",1"'-<br>ethylenedinitrilotetrapropan-2-ol<br>CAS No.: 102-60-3<br>EC No.: 203-041-4 | 0.193 mg/kg  | ① PNEC sediment, freshwater   |
| 1,1',1",1"-<br>ethylenedinitrilotetrapropan-2-ol<br>CAS No.: 102-60-3<br>EC No.: 203-041-4  | 0.0193 mg/kg | ① PNEC sediment, marine water |

## 8.2. Exposure controls

## 8.2.1. Appropriate engineering controls

Ensure good ventilation. This can be achieved by local exhaust ventilation or general exhaust air. If this is not sufficient to keep the concentration below the occupational exposure limits (OEL), suitable respiratory protection must be worn. Applies only if exposure limits are listed here. Appropriate assessment methods for verifying the effectiveness of the protective measures taken include metrological and non-measured methods of determination. Such methods are described by e.g. EN 14042, TRGS 402 (Germany). EN 14042 "Workplace atmospheres. Guidance for the application and use of methods and equipment for the determination of chemical and biological agents". TRGS 402 (Germany) "Determining and assessing the hazards of activities involving hazardous substances - Inhalation exposure".

#### 8.2.2. Personal protection equipment

#### Eye/face protection:

Safety goggles with side shields (EN 166).

#### Skin protection:

Hand protection:

Chemical resistant protective gloves (EN ISO 374).

Glove material:

Butyl caoutchouc (butyl rubber)

Neoprene®

NBR (Nitrile rubber) PVC (polyvinyl chloride)

Thickness of the glove material: 0,5mm

Breakthrough time: >= 480 min.

The determined breakthrough times according to EN 16523-1 were not carried out under practical conditions. A maximum wearing time corresponding to 50% of the breakthrough time is recommended. Hand protection cream recommended.

Additional information on hand protection - No tests have been carried out. For mixtures, the selection was made to the best of our knowledge and based on the information provided by the ingredients. For substances, the selection was derived from the glove manufacturer's information. Final selection of glove material must be made with consideration of breakthrough times, permeation rates and degradation. The selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer. In the case of mixtures, the resistance of glove materials cannot be calculated in advance and must therefore be checked before use. The exact breakthrough time of the glove material must be obtained from the protective glove manufacturer and must be observed.

#### Body protection:

Protective work clothing (e.g. safety shoes EN ISO 20345, long-sleeved work clothing).

#### **Respiratory protection:**

If the occupational exposure limit value (AGW, Germany) or MAK (Switzerland, Austria) is exceeded. Filter A P2 (EN 14387), brown, white

Observe the wear time limits as specified by the manufacturer.

#### Thermal hazards:

No further relevant information available.

#### Other protection measures:

The usual precautions when handling chemicals must be observed. Wash hands before breaks and after work. Keep away from food, drink and animal feed. Remove contaminated clothing and protective equipment before entering areas where food will be served.

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### 8.2.3. Environmental exposure controls

No further relevant information available.

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

## 9.1. Information on basic physical and chemical properties

**Appearance** 

Physical state: Paste Colour: transparent

**Odour:** characteristic

## Safety relevant basis data

| Parameter                                    | Value                 | ① Method<br>② Remark |
|--|-----------------------|----------------------|
| pH   | not determined        |                      |
| Melting point                                | not determined        |                      |
| Freezing point                               | not determined        |                      |
| Initial boiling point and boiling range      | not determined        |                      |
| Decomposition temperature                    | not determined        |                      |
| Flash point                                  | not determined        |                      |
| Evaporation rate                             | not determined        |                      |
| Auto-ignition temperature                    | not determined        |                      |
| Upper/lower flammability or explosive limits | not determined        |                      |
| Vapour pressure                              | not determined        |                      |
| Vapour density                               | not determined        |                      |
| Density                                      | 1.1 g/cm³             |                      |
| Relative density                             | not determined        |                      |
| Bulk density                                 | not determined        |                      |
| Water solubility                             | practically insoluble |                      |
| Partition coefficient: n-octanol/water       | not determined        |                      |
| Dynamic viscosity                            | mPa* s                |                      |
| Kinematic viscosity                          | not determined        |                      |

## 9.2. Other information

The product is not explosive.

# 9.2.1. Information with regard to physical hazard classes

**Oxidizing liquids:** 

No.

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

The product has not been tested.

## 10.2. Chemical stability

Chemically stable under conditions of storage, handling and use.

## 10.3. Possibility of hazardous reactions

No dangerous reactions known.

#### 10.4. Conditions to avoid

None known.

## 10.5. Incompatible materials

See also section 7. Avoid contact with strong alkalis. Avoid contact with strong acids. Avoid contact with strong oxidising agents. Oxidisable substances.

#### 10.6. Hazardous decomposition products

No dangerous decomposition products known.

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## **SECTION 11: Toxicological information**

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

#### **Acute Toxicity Estimate for Mixtures**

**ATE (oral):** >2,000 mg/kg

1,1',1"',1"'-ethylenedinitrilotetrapropan-2-ol CAS No.: 102-60-3 EC No.: 203-041-4

**LD<sub>50</sub> oral:** >2,000 - 5,000 mg/kg (Rat) OECD 401

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

dimethylbis[(1-oxoneodecyl)oxy]stannane CAS No.: 68928-76-7 EC No.: 273-028-6

**LD<sub>50</sub> oral:** 890 mg/kg (Rat) OECD 401

**LD<sub>50</sub> dermal:** >2,000 mg/kg (Rat) 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:

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

#### 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:

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 further relevant information available.

#### 11.2. Information on other hazards

#### **Endocrine disrupting properties:**

None of the ingredients are included.

## **SECTION 12: Ecological information**

## 12.1. Toxicity

1,1',1"',1"'-ethylenedinitrilotetrapropan-2-ol CAS No.: 102-60-3 EC No.: 203-041-4

**LC<sub>50</sub>:** >100 mg/L 2 d (fish, Leuciscus idus) DIN 38412 T.15

EC<sub>50</sub>: >100 mg/L 2 d (crustaceans, Daphnia magna) 92/69/EC

EC<sub>50</sub>: >100 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus) 84/449/EEC C.3

**NOEC:** ≥10 mg/L 21 d (crustaceans, Daphnia magna) OECD 211

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dimethylbis[(1-oxoneodecyl)oxy]stannane CAS No.: 68928-76-7 EC No.: 273-028-6

**EC<sub>50</sub>:** 39 mg/L 2 d (crustaceans, Daphnia magna) OECD 202

EC<sub>50</sub>: 7.6 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata)

#### Assessment/classification:

No further relevant information available.

#### 12.2. Persistence and degradability

1,1',1"',1"'-ethylenedinitrilotetrapropan-2-ol CAS No.: 102-60-3 EC No.: 203-041-4

**Biodegradation:** Yes, slowly

#### **Additional information:**

No further relevant information available.

## 12.3. Bioaccumulative potential

1,1',1",1"'-ethylenedinitrilotetrapropan-2-ol CAS No.: 102-60-3 EC No.: 203-041-4

Log Kow: -2.08

## **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

1,1',1"',1"'-ethylenedinitrilotetrapropan-2-ol CAS No.: 102-60-3 EC No.: 203-041-4

Results of PBT and vPvB assessment: —

dimethylbis[(1-oxoneodecyl)oxy]stannane CAS No.: 68928-76-7 EC No.: 273-028-6

Results of PBT and vPvB assessment: —

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

No further relevant information available.

## **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

The waste codes given are recommendations based on the expected use of this product. Due to the specific use and disposal conditions at the user's site, other waste codes may be assigned under certain circumstances. (2014/955/EU)

#### 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 / Product:**

Disposal via waste water is not recommended. Observe local regulations. For example, suitable incineration plant. For example, dispose of in a suitable landfill.

## Appropriate disposal / Package:

Uncleaned packaging: Observe local regulations. Empty container completely. Non-contaminated packaging can be reused. Packaging that cannot be cleaned must be disposed of in the same way as the substance.

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## **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. | No dangerous good in sense of these transport regulations. |
| 14.2. UN proper ship                                       | ping 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. | No dangerous good in sense of these transport regulations. |
| 14.3. Transport haza                                       | rd class(es)   |  |  |
| not relevant   | not relevant   | not relevant   | not relevant   |
| 14.4. Packing group  |  |  |  |
| not relevant   | not relevant   | not relevant   | not relevant   |
| 14.5. Environmental hazards                                |  |  |  |
| not relevant   | not relevant   | not relevant   | not relevant   |
| 14.6. Special precautions for user                         |  |  |  |
| not relevant   | not relevant   | not relevant   | not relevant   |

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

not applicable

## **SECTION 15: Regulatory information**

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

## 15.1.1. EU legislation

## **Authorisations:**

Observe national regulations/laws on maternity protection (especially the national implementation of Directive 92/85/EEC)! The general hygiene measures for handling chemicals must be applied. Regulation (EU) No. 649/2012 "concerning the export and import of dangerous chemicals" must be observed, as the product contains a substance that falls within the scope of this regulation.

#### 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

No data available

#### 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

AGW Threshold Limit Value
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

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ES Exposure scenario

EWC European Waste Catalogue IC<sub>50</sub> Inhibition Concentration 50 %

ICAO International Civil Aviation Organization
IMDG International Maritime Dangerous Goods
IMO International Maritime Organization

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

OEL Threshold Limit Value

OSHA Occupational Safety & Health Administration
PBT persistent and bioaccumulative and toxic

PNEC Predicted No Effect Concentration

REACH Registration, Evaluation and Authorization of Chemicals RID Dangerous goods regulations for transport by rail

TRGS Technische Regeln für Gefahrstoffe

UN United Nations

#### 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 |
|--|--|--------------------------|
| Serious eye damage/eye irritation (Eye Irrit. 2) | H319: Causes serious eye irritation.       |                          |
| Respiratory or skin sensitisation (Skin Sens. 1) | H317: May cause an allergic skin reaction. |                          |

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

| Hazard statements                   |  |  |
|-------------------------------------|--|--|
| H302                                | Harmful if swallowed.                              |  |
| H315                                | Causes skin irritation.                            |  |
| H317                                | May cause an allergic skin reaction.               |  |
| H319 Causes serious eye irritation. |  |  |
| H412                                | Harmful to aquatic life with long lasting effects. |  |

#### 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.