

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

**1.1. Product identifier**

Product form : Mixture  
Trade name : Durable UV80TR  
Type of product : Photocentric UV Resin

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

**1.2.1. Relevant identified uses**

Main use category : Industrial use, Professional use, Consumer use  
Use of the substance/mixture : For use in UV Printers

**1.2.2. Uses advised against**

No additional information available

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

**Supplier**

Photocentric Ltd, UK  
Cambridge House  
Oxney Road  
Peterborough, PE1 5YW - United Kingdom  
T +44 (0)1733349937  
[info@photocentric.co.uk](mailto:info@photocentric.co.uk) - <https://photocentricgroup.com/>

**1.4. Emergency telephone number**

Emergency number : +44 (0) 1733 349937 (Office hours only)  
Transport Emergencies for US & CANADA: For Hazardous Materials [or Dangerous Goods] Incident Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC 1-800-424-9300 / +1 703-527-3887 CCN 992854

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

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

Acute toxicity (oral), Category 4 H302  
Skin corrosion/irritation, Category 2 H315  
Serious eye damage/eye irritation, Category 1 H318  
Skin sensitisation, Category 1 H317  
Specific target organ toxicity – Single exposure, Category 3, H335  
Respiratory tract irritation  
Hazardous to the aquatic environment – Chronic Hazard, Category 3 H412  
Full text of H-statements: see section 16

**Adverse physicochemical, human health and environmental effects**

Harmful if swallowed. May cause respiratory irritation. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Harmful to aquatic life with long lasting effects.

**2.2. Label elements**

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

Hazard pictograms (CLP) :    
GHS05 GHS07  
Signal word (CLP) : Danger

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|                                |   |
|--------------------------------|---|
| Contains                       | : Proprietary (Monomer); Proprietary (Photoinitiator)   |
| Hazard statements (CLP)        | : H302 - Harmful if swallowed.<br>H315 - Causes skin irritation.<br>H317 - May cause an allergic skin reaction.<br>H318 - Causes serious eye damage.<br>H335 - May cause respiratory irritation.<br>H412 - Harmful to aquatic life with long lasting effects.   |
| Precautionary statements (CLP) | : P261 - Avoid breathing fume, mist, spray, vapours.vapours, fume, spray.<br>P264 - Wash hands thoroughly after handling.<br>P280 - Wear eye protection, protective clothing, protective gloves.<br>P301+P312 - IF SWALLOWED: Call doctor if you feel unwell.<br>P302+P352 - IF ON SKIN: Wash with plenty of soap and water.<br>P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.<br>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P310 - Immediately call a doctor.<br>P312 - Call doctor if you feel unwell.<br>P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.<br>P403+P233 - Store in a well-ventilated place. Keep container tightly closed.<br>P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation, a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste. |

### 2.3. Other hazards

Other hazards not contributing to the classification : None under normal conditions.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name                         | %           | Classification according to Regulation (EC) No. 1272/2008 [CLP]                         |
|------------------------------|-------------|---|
| Proprietary (Diacrylate)     | ≥ 50 – < 70 | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319   |
| Proprietary (Monomer)        | ≥ 25 – < 50 | Acute Tox. 4 (Oral), H302<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>STOT SE 3, H335 |
| Proprietary (Oligomer)       | ≥ 3 – < 5   | Aquatic Acute 1, H400<br>Aquatic Chronic 2, H411  |
| Proprietary (Photoinitiator) | ≥ 1 – < 3   | Skin Sens. 1, H317<br>Aquatic Chronic 4, H413   |
| Proprietary (Diacrylate)     | ≥ 0.1 – < 1 | Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410  |

Full text of H- and EUH-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. Call a poison center or a doctor if you feel unwell.

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|                                       |   |
|---------------------------------------|---|
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.   |
| First-aid measures after skin contact | : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.      |
| First-aid measures after eye contact  | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.  |
| First-aid measures after ingestion    | : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If swallowed, seek medical advice immediately and show this container or label. Call a poison center or a doctor if you feel unwell. Rinse mouth out with water. |

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

|                                     |  |
|-------------------------------------|--|
| Symptoms/effects                    | : Harmful in contact with skin. May be harmful if inhaled. May be harmful in contact with skin.                        |
| Symptoms/effects after inhalation   | : Inhalation may cause irritation (cough, short breathing, difficulty in breathing). May cause respiratory irritation. |
| Symptoms/effects after skin contact | : May be harmful in contact with skin. Irritation. May cause an allergic skin reaction.                                |
| Symptoms/effects after eye contact  | : Serious damage to eyes.  |
| Symptoms/effects after ingestion    | : May be harmful if swallowed. May cause irritation to the digestive tract.  |

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

Treat symptomatically. In all cases of doubt, or when symptoms persist, seek medical attention. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

|                                |  |
|--------------------------------|--|
| Suitable extinguishing media   | : Water spray. Dry powder. Foam. Carbon dioxide. |
| Unsuitable extinguishing media | : Do not use a heavy water stream.               |

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

|  |  |
|--|--|
| Fire hazard                                      | : In case of fire, corrosive gases come free. In case of fire and/or explosion do not breathe fumes. |
| Explosion hazard                                 | : No data available on direct explosion hazard.  |
| Reactivity in case of fire                       | : Corrosive vapours.   |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released.   |

### 5.3. Advice for firefighters

|                                |  |
|--------------------------------|--|
| Precautionary measures fire    | : Keep away from combustible materials. Keep container closed when not in use. Store in tightly closed, properly ventilated containers away from heat, sparks, open flame. |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.                                   |
| Other information              | : High temperature decomposition products are harmful by inhalation.   |

## SECTION 6: Accidental release measures

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

|                  |  |
|------------------|--|
| General measures | : Avoid contact with skin and eyes. Clean up any spills as soon as possible, using an absorbent material to collect it. Do not handle until all safety precautions have been read and understood. Evacuate area. |
|------------------|--|

#### 6.1.1. For non-emergency personnel

|                      |  |
|----------------------|--|
| Protective equipment | : Wear recommended personal protective equipment.                                      |
| Emergency procedures | : For further information refer to section 8: "Exposure controls/personal protection". |

#### 6.1.2. For emergency responders

|                      |  |
|----------------------|--|
| Protective equipment | : Do not attempt to take action without suitable protective equipment. Use self-contained breathing apparatus and chemically protective clothing. Wear recommended personal protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
|----------------------|--|

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Emergency procedures : Evacuate unnecessary personnel. Ventilate area. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.

### 6.2. Environmental precautions

Avoid release to the environment. Prevent liquid from entering sewers, watercourses, underground or low areas.

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

For containment : For large spills, confine the spill in a dike and charge it with wet sand or earth for subsequent safe disposal. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for cleaning up : Take up liquid spill into absorbent material. This material and its container must be disposed of in a safe way, and as per local legislation.

Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes.

Handling temperature : 10 – 50 °C

Hygiene measures : Wear personal protective equipment. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace.

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

Storage conditions : Store in a well-ventilated place. Keep cool. Store in a well-ventilated place. Keep cool. Store locked up. Keep container tightly closed.

Incompatible materials : Direct sunlight.

Storage temperature :  $\geq 25$  °C

Storage area : Store away from heat. Store in a well-ventilated place.

Packaging materials : Do not store in corrodable metal. Store always product in container of same material as original container.

### 7.3. Specific end use(s)

SDS section 1.2.1 - Additional text.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### Personal protective equipment:

Wear recommended personal protective equipment. Safety glasses. Gloves.

#### Materials for protective clothing:

Wear suitable protective clothing and gloves

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### Hand protection:

Protective gloves

### Eye protection:

Safety glasses

### Skin and body protection:

Wear suitable protective clothing

### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

### Personal protective equipment symbol(s):



### Environmental exposure controls:

Avoid release to the environment.

### Consumer exposure controls:

The substance is not classified for human health hazards or for environment effects and it is not PBT or vPvB so that no exposure assessment or risk characterisation is required. For tasks where the intervention of workers is required, the substance must be handled in accordance with good industrial hygiene and safety procedures.

### Other information:

Do not eat, drink or smoke when using this product.

## SECTION 9: Physical and chemical properties

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

|   |                              |
|---|------------------------------|
| Physical state                                  | : Liquid                     |
| Appearance                                      | : Liquid.                    |
| Colour  | : Black.                     |
| Odour   | : Characteristics.           |
| Odour threshold                                 | : No data available          |
| pH  | : No data available          |
| Relative evaporation rate (butylacetate=1)      | : No data available          |
| Melting point                                   | : Not applicable             |
| Freezing point                                  | : No data available          |
| Boiling point                                   | : No data available          |
| Flash point                                     | : No data available          |
| Auto-ignition temperature                       | : No data available          |
| Decomposition temperature                       | : No data available          |
| Flammability (solid, gas)                       | : Not applicable             |
| Vapour pressure                                 | : No data available          |
| Relative vapour density at 20 °C                | : No data available          |
| Relative density                                | : No data available          |
| Density   | : 1.1 g/ml                   |
| Solubility                                      | : No data available          |
| Partition coefficient n-octanol/water (Log Pow) | : No data available          |
| Viscosity, kinematic                            | : 363.636 mm <sup>2</sup> /s |
| Viscosity, dynamic                              | : 400 (300 – 500) mPa.s      |
| Explosive properties                            | : No data available          |
| Oxidising properties                            | : No data available          |
| Explosive limits                                | : No data available          |

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### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable under normal conditions of use.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

No hazardous decomposition products known at room temperature.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Harmful if swallowed.  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

| Durable UV80TR |                          |
|----------------|--------------------------|
| ATE CLP (oral) | 826.537 mg/kg bodyweight |

| Proprietary (Diacylate) |              |
|-------------------------|--------------|
| LD50 oral rat           | > 2000 mg/kg |

| Proprietary (Monomer) |  |
|-----------------------|--|
| LD50 oral rat         | 300 – 2000 mg/kg bodyweight OECD Guideline 423 |
| LD50 dermal rat       | > 2000 mg/kg bodyweight OECD Guideline 423     |

| Proprietary (Oligomer) |  |
|------------------------|--|
| LD50 oral rat          | > 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity) |

| Proprietary (Photoinitiator) |   |
|------------------------------|---|
| LD50 oral rat                | > 2000 mg/kg bodyweight Animal: rat, Guideline: EU Method B.1 (Acute Toxicity (Oral)) |
| LD50 dermal rat              | > 2000 mg/kg bodyweight Animal: rat, Guideline: other:92/69/EEC                       |

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| Proprietary (Diacrylate) |   |
|--------------------------|---|
| LD50 oral rat            | > 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method), Guideline: EU Method B.1 tris (Acute Oral Toxicity - Acute Toxic Class Method) |
| LD50 dermal rat          | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal))  |

|                                   |  |
|-----------------------------------|--|
| Skin corrosion/irritation         | : Causes skin irritation.              |
| Serious eye damage/irritation     | : Causes serious eye damage.           |
| Respiratory or skin sensitisation | : May cause an allergic skin reaction. |
| Germ cell mutagenicity            | : Not classified                       |
| Carcinogenicity                   | : Not classified                       |
| Reproductive toxicity             | : Not classified                       |
| STOT-single exposure              | : May cause respiratory irritation.    |
| STOT-repeated exposure            | : Not classified                       |

| Proprietary (Photoinitiator) |   |
|------------------------------|---|
| NOAEL (oral, rat, 90 days)   | > 1000 mg/kg bodyweight Animal: rat, Guideline: other:92/69/eec |

| Proprietary (Diacrylate)   |  |
|----------------------------|--|
| NOAEL (oral, rat, 90 days) | 1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents), Guideline: EU Method B.7 (Repeated Dose (28 Days) Toxicity (Oral)) |

|                   |                  |
|-------------------|------------------|
| Aspiration hazard | : Not classified |
|-------------------|------------------|

| Durable UV80TR       |                            |
|----------------------|----------------------------|
| Viscosity, kinematic | 363.636 mm <sup>2</sup> /s |

|   |  |
|---|--|
| Potential adverse human health effects and symptoms | : Harmful if swallowed. Harmful in contact with skin. Irritation: severely irritant to eyes. Irritation: may cause irritation to the respiratory system. |
| Other information                                   | : Likely routes of exposure: ingestion, skin and eye.  |

## SECTION 12: Ecological information

### 12.1. Toxicity

|   |  |
|---|--|
| Ecology - general   | : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. Harmful to aquatic life with long lasting effects. |
| Ecology - water   | : Harmful to aquatic life with long lasting effects.   |
| Hazardous to the aquatic environment, short-term (acute)  | : Not classified   |
| Hazardous to the aquatic environment, long-term (chronic) | : Harmful to aquatic life with long lasting effects.   |
| Not rapidly degradable                                    |  |

| Proprietary (Monomer) |  |
|-----------------------|--|
| LC50 fish 1           | 120 mg/l Brachydanio rerio (OECD 203; ISO 7346; 84/449/EEC, C.1, static) |
| EC50 Daphnia 1        | > 120 mg/l Daphnia magna (OECD Guideline 202, part 1, static)            |
| EC50 72h algae (1)    | > 120 mg/l Pseudokirchneriella subcapitata (OECD Guideline 201, static)  |

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| Proprietary (Oligomer) |   |
|------------------------|---|
| LC50 fish 1            | 10.1 mg/l   |
| EC50 Daphnia 1         | > 1200 µg/l Test organisms (species): Daphnia magna |
| EC50 72h algae (1)     | > 0.68 mg/l   |

| Proprietary (Photoinitiator) |  |
|------------------------------|--|
| LC50 fish 1                  | > 0.09 mg/l Test organisms (species): other:Zebra Fish Brachydanio rerio                               |
| EC50 Daphnia 1               | > 1.175 mg/l Test organisms (species): other aquatic crustacea:Daphnia Magna                           |
| EC50 72h algae (1)           | > 0.26 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |

| Proprietary (Diacylate) |   |
|-------------------------|---|
| EC50 Daphnia 1          | 2.36 mg/l Test organisms (species): Daphnia magna   |
| EC50 72h algae (1)      | 1.6 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)  |
| EC50 72h algae (2)      | 0.71 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |

### 12.2. Persistence and degradability

| Proprietary (Monomer)         |   |
|-------------------------------|---|
| Persistence and degradability | Product is practically not biodegradable. |

| Proprietary (Oligomer)        |                  |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |

### 12.3. Bioaccumulative potential

| Proprietary (Monomer)                           |     |
|---|-----|
| Partition coefficient n-octanol/water (Log Pow) | 0.8 |

| Proprietary (Oligomer)                          |                                    |
|---|------------------------------------|
| Partition coefficient n-octanol/water (Log Pow) | 3.39                               |
| Bioaccumulative potential                       | No bioaccumulation data available. |

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

| Component                            |  |
|--------------------------------------|--|
| Proprietary (Diacylate) (52404-33-8) | PBT: not relevant – no registration required |
| Proprietary (Oligomer) (72869-86-4)  | PBT: not relevant – no registration required |

### 12.6. Other adverse effects

Additional information : Avoid release to the environment.



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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

|  |  |
|--|--|
| Waste treatment methods                    | : Dispose of contents/container in accordance with licensed collector's sorting instructions.  |
| Sewage disposal recommendations            | : Disposal must be done according to official regulations.   |
| Product/Packaging disposal recommendations | : Avoid release to the environment. Comply with applicable regulations for solid waste disposal. Dispose in a safe manner in accordance with local/national regulations. |
| Additional information                     | : Clean up even minor leaks or spills if possible without unnecessary risk. Consult an expert on waste disposal or treatment.  |
| Ecology - waste materials                  | : Avoid release to the environment.  |

### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

| ADR                                     | IMDG          | IATA          | ADN           | RID           |
|---|---------------|---------------|---------------|---------------|
| <b>14.1. UN number</b>                  |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| <b>14.2. UN proper shipping name</b>    |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| <b>14.3. Transport hazard class(es)</b> |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| <b>14.4. Packing group</b>              |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| <b>14.5. Environmental hazards</b>      |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| No supplementary information available  |               |               |               |               |

#### 14.6. Special precautions for user

##### Overland transport

Not regulated

##### Transport by sea

Not regulated

##### Air transport

Not regulated

##### Inland waterway transport

Not regulated

##### Rail transport

Not regulated

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

### SECTION 15: Regulatory information

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

##### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

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Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

### 15.1.2. National regulations

#### Germany

Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG)  
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG)

Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1)

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

#### Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

SZW-lijst van mutagene stoffen : None of the components are listed

SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed

SZW-lijst van reprotoxische stoffen –

Vruchtbaarheid

SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed

#### Denmark

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

| Abbreviations and acronyms: |   |
|-----------------------------|---|
| 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             |
| ATE                         | Acute Toxicity Estimate   |
| BLV                         | Biological limit value  |
| CAS-No.                     | Chemical Abstract Service number  |
| CLP                         | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008                     |
| DMEL                        | Derived Minimal Effect level  |
| DNEL                        | Derived-No Effect Level   |
| EC50                        | Median effective concentration  |
| EC-No.                      | European Community number   |
| EN                          | European Standard   |
| IATA                        | International Air Transport Association   |
| IMDG                        | International Maritime Dangerous Goods  |
| LC50                        | Median lethal concentration   |
| LD50                        | Median lethal dose  |
| LOAEL                       | Lowest Observed Adverse Effect Level  |
| NOAEC                       | No-Observed Adverse Effect Concentration  |
| NOAEL                       | No-Observed Adverse Effect Level  |
| NOEC                        | No-Observed Effect Concentration  |
| OEL                         | Occupational Exposure Limit   |
| PBT                         | Persistent Bioaccumulative Toxic  |
| PNEC                        | Predicted No-Effect Concentration   |

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|       |   |
|-------|---|
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |
| RID   | Regulations concerning the International Carriage of Dangerous Goods by Rail                      |
| SDS   | Safety Data Sheet   |
| vPvB  | Very Persistent and Very Bioaccumulative  |
| WGK   | Water Hazard Class  |

| Full text of H- and EUH-statements: |  |
|-------------------------------------|--|
| Acute Tox. 4 (Oral)                 | Acute toxicity (oral), Category 4  |
| Aquatic Acute 1                     | Hazardous to the aquatic environment – Acute Hazard, Category 1                            |
| Aquatic Chronic 1                   | Hazardous to the aquatic environment – Chronic Hazard, Category 1                          |
| Aquatic Chronic 2                   | Hazardous to the aquatic environment – Chronic Hazard, Category 2                          |
| Aquatic Chronic 3                   | Hazardous to the aquatic environment – Chronic Hazard, Category 3                          |
| Aquatic Chronic 4                   | Hazardous to the aquatic environment – Chronic Hazard, Category 4                          |
| Eye Dam. 1                          | Serious eye damage/eye irritation, Category 1  |
| Eye Irrit. 2                        | Serious eye damage/eye irritation, Category 2  |
| Skin Irrit. 2                       | Skin corrosion/irritation, Category 2  |
| Skin Sens. 1                        | Skin sensitisation, Category 1   |
| STOT SE 3                           | Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation |
| 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.  |
| H400                                | Very toxic to aquatic life.  |
| H410                                | Very toxic to aquatic life with long lasting effects.                                      |
| H411                                | Toxic to aquatic life with long lasting effects.   |
| H412                                | Harmful to aquatic life with long lasting effects.   |
| H413                                | May cause long lasting harmful effects to aquatic life.                                    |

SDS EU (REACH Annex II) Photocentric Amended

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.