# SAFETY DATA SHEET



Label No :52002

UVILUX 6790-02 - TS 21367 NCS S 5010-B50G

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

#### 1.1 Product identifier

Product name : UVILUX 6790-02 - TS 21367 NCS S 5010-B50G

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

Product use : Paint.

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

Teknos Group Oy, Takkatie 3, FI-00370 HELSINKI, FINLAND. Tel. +358 9 506 091.

e-mail address of person : Prod-safe@teknos.com

responsible for this SDS

**National contact** 

Teknos (UK) Limited, 7 Longlands Rd, Bicester, Oxfordshire OX26 5AH, United Kingdom. Tel. +44 (0) 1869 208005.

#### 1.4 Emergency telephone number

National advisory body/Poison Centre
Telephone number : NHS: 111

#### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Product definition : Mixture

<u>Classification according to UK CLP/GHS</u>

Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 2, H411

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

#### 2.2 Label elements

Hazard pictograms





Signal word : Warning

**Hazard statements** : H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H410 - Very toxic to aquatic life with long lasting effects.

**Precautionary statements** 

**Prevention**: P280 - Wear protective gloves. Wear eye or face protection.

P273 - Avoid release to the environment.

P261 - Avoid breathing vapour.

P264 - Wash thoroughly after handling.

**Response** : P391 - Collect spillage.

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# **SECTION 2: Hazards identification**

**Storage** 

**Disposal** 

: Not applicable.

Name of DE04

: P501 - Dispose of contents and container in accordance with all local, regional,

national and international regulations.

Supplemental label elements

: Warning! Hazardous respirable droplets may be formed when sprayed. Do not

breathe spray or mist.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

#### 2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII : This mixture does not contain any substances that are assessed to be a PBT or a

vPvB.

Other hazards which do not result in classification

: None known.

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

#### 3.2 Mixtures : Mixture

| Product/ingredient name                                                                      | Identifiers                                                                                  | %         | Classification                                                                                                                         | Type       |
|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------|------------|
| Fexamethylene diacrylate                                                                     | REACH #:<br>01-2119484737-22<br>EC: 235-921-9<br>CAS: 13048-33-4<br>Index: 607-109-00-8      | ≥25 - ≤50 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 2, H411                          | [1]        |
| titanium dioxide                                                                             | REACH #:<br>01-2119489379-17<br>EC: 236-675-5<br>CAS: 13463-67-7                             | ≤10       | Carc. 2, H351<br>(inhalation)                                                                                                          | [1] [*]    |
| Oligotriacrylate                                                                             | REACH #:<br>01-2119487948-12<br>EC: 500-114-5<br>CAS: 52408-84-1                             | ≤10       | Eye Irrit. 2, H319<br>Skin Sens. 1, H317                                                                                               | [1]        |
| Acrylate resin (1-methyl-1,2-ethanediyl)bis[oxy (methyl-2,1-ethanediyl)] diacrylate          | -<br>REACH #:<br>01-2119484613-34<br>EC: 256-032-2<br>CAS: 42978-66-5<br>Index: 607-249-00-X | ≤10<br>≤3 | Eye Irrit. 2, H319<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317<br>STOT SE 3, H335<br>Aquatic Chronic 2,<br>H411 | [1]<br>[1] |
| Benzene, (1-methylethenyl)-,<br>homopolymer, ar-(2-hydroxy-<br>2-methyl-1-oxopropyl) derivs. | CAS: 163702-01-0                                                                             | <3        | Repr. 2, H361f                                                                                                                         | [1]        |
| Phosphine oxide, phenylbis (2,4,6-trimethylbenzoyl)-                                         | REACH #:<br>01-2119489401-38<br>EC: 423-340-5<br>CAS: 162881-26-7<br>Index: 015-189-00-5     | ≤3        | Skin Sens. 1A, H317<br>Aquatic Chronic 4,<br>H413                                                                                      | [1]        |
| Methylbenzoylformiat                                                                         | REACH #:<br>01-2120101338-67<br>EC: 239-263-3<br>CAS: 15206-55-0                             | ≤3        | Skin Sens. 1, H317                                                                                                                     | [1]        |
| Propylidynetrimethanol, ethoxylated, esters with acrylic acid                                | REACH #:                                                                                     | ≤3        | Eye Irrit. 2, H319<br>Skin Sens. 1, H317<br>Aquatic Chronic 3,<br>H412                                                                 | [1]        |

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#### SECTION 3: Composition/information on ingredients Fatty acids, C18-unsatd., dimers, CAS: 216689-76-8 Skin Sens. 1B, H317 [1] polymers with acrylic acid, bisphenol A, epichlorohydrin and nonanoic acid 2-Methoxy-1-methylethyl acetate REACH #: <1 Flam. Liq. 3, H226 [1] [2] 01-2119475791-29 **STOT SE 3, H336** EC: 203-603-9 CAS: 108-65-6 Index: 607-195-00-7 2-Butoxyethanol REACH #: ≤0.3 Acute Tox. 4, H302 [1] [2] 01-2119475108-36 Acute Tox. 4, H332 EC: 203-905-0 Skin Irrit. 2, H315 CAS: 111-76-2 Eye Irrit. 2, H319 Index: 603-014-00-0 Propylidynetrimethanol, REACH #: ≤0.3 Eye Irrit. 2, H319 [1] ethoxylated, esters with acrylic acid 01-2119489900-30 Skin Sens. 1B, H317 EC: 500-066-5 Aquatic Chronic 3, H412 CAS: 28961-43-5 2-ethylhexan-1-ol REACH #: ≤0.1 Acute Tox. 4, H332 [1] [2] 01-2119487289-20 Skin Irrit. 2, H315 Eye Irrit. 2, H319 EC: 203-234-3 CAS: 104-76-7 **STOT SE 3, H335** copper bis REACH #: < 0.01 Acute Tox. 2, H330 [1] [2] (dimethyldithiocarbamate) 01-2120770993-40 Aquatic Acute 1, H400 EC: 205-287-8 (M=10)CAS: 137-29-1 EC: 204-617-8 < 0.01 Acute Tox. 4, H302 1,4-Dihydroxybenzene [1] [2] CAS: 123-31-9 Eye Dam. 1, H318 Index: 604-005-00-4 Skin Sens. 1, H317 Muta. 2, H341 Carc. 2, H351 Aquatic Acute 1, H400 (M=10)Flam. Liq. 2, H225 Toluene ≤0.1 REACH #: [1] [2] Skin Irrit. 2, H315 01-2119471310-51 EC: 203-625-9 Repr. 2, H361d CAS: 108-88-3 **STOT SE 3, H336** Index: 601-021-00-3 **STOT RE 2, H373** Asp. Tox. 1, H304 See Section 16 for the full text of the H statements declared

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

#### **Type**

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [\*] The classification as a carcinogen by inhalation applies only to mixtures placed on the market in powder form containing 1% or more of titanium dioxide particles with aerodynamic diameter ≤ 10 µm not bound within a matrix.

Occupational exposure limits, if available, are listed in Section 8.

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

**Eye contact** 

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

above.

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#### **SECTION 4: First aid measures**

#### Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

#### **Skin contact**

: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

#### Ingestion

: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

#### **Protection of first-aiders**

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear

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

#### Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:

> pain or irritation watering redness

Inhalation : No specific data.

Skin contact : Adverse symptoms may include the following:

irritation redness

: No specific data. Ingestion

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

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments** : No specific treatment.

# **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing media

: Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing** 

media

: None known.

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

Hazards from the substance or mixture : In a fire or if heated, a pressure increase will occur and the container may burst. This material is very toxic to aquatic life. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

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# SECTION 5: Firefighting measures

**Hazardous combustion** products

: Decomposition products may include the following materials: carbon dioxide carbon monoxide phosphorus oxides metal oxide/oxides

#### 5.3 Advice for firefighters

**Special protective actions** for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective** equipment for fire-fighters Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure

## SECTION 6: Accidental release measures

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

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

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

**Small spill** 

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

: Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

#### 6.4 Reference to other sections

See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

# SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 7.1 Precautions for safe handling

**Protective measures** 

: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

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# **SECTION 7: Handling and storage**

# Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

## 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

#### Seveso Directive - Reporting thresholds

#### **Danger criteria**

|    | Notification and MAPP threshold | Safety report threshold |
|----|---------------------------------|-------------------------|
| E1 | 100 tonne                       | 200 tonne               |

#### 7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific : Not available.

solutions

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

#### 8.1 Control parameters

#### **Occupational exposure limits**

Z-Methoxy-1-methylethyl acetate EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed

through skin.

STEL: 548 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 274 mg/m³ 8 hours. STEL: 100 ppm 15 minutes.

2-Butoxyethanol EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed

through skin.

STEL: 50 ppm 15 minutes. TWA: 25 ppm 8 hours. STEL: 246 mg/m³ 15 minutes. TWA: 123 mg/m³ 8 hours.

2-ethylhexan-1-ol EH40/2005 WELs (United Kingdom (UK), 1/2020).

TWA: 5.4 mg/m<sup>3</sup> 8 hours. TWA: 1 ppm 8 hours.

copper bis(dimethyldithiocarbamate) EH40/2005 WELs (United Kingdom (UK), 1/2020). [Copper and

compounds dust and mists, as Cul

STEL: 2 mg/m³, (as Cu) 15 minutes. Form: Dusts and Mists TWA: 1 mg/m³, (as Cu) 8 hours. Form: Dusts and Mists **EH40/2005 WELs (United Kingdom (UK), 1/2020).** 

TWA: 0.5 mg/m<sup>3</sup> 8 hours.

EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed

through skin.

STEL: 384 mg/m³ 15 minutes. TWA: 191 mg/m³ 8 hours. TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes.

#### **Biological exposure indices**

1,4-Dihydroxybenzene

Toluene

| Product/ingredient name | Exposure indices                                                                                                                     |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| <b>2</b> -Butoxyethanol | EH40/2005 BMGVs (United Kingdom (UK), 8/2018) BGV: 240 mmol/mol creatinine, butoxyacetic acid [in urine]. Sampling time: post shift. |

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**Recommended monitoring** procedures

: Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### **DNELs/DMELs**

| Product/ingredient name                                                                      | Type | Exposure                 | Value                           | Population                                 | Effects  |
|----------------------------------------------------------------------------------------------|------|--------------------------|---------------------------------|--------------------------------------------|----------|
| examethylene diacrylate                                                                      | DNEL | Long term<br>Inhalation  | 7.2 mg/m³                       | General population                         | Systemic |
|                                                                                              | DNEL | Long term Dermal         | 1.66 mg/<br>kg bw/day           | General population                         | Systemic |
|                                                                                              | DNEL | Long term Oral           | 2.1 mg/kg                       | General                                    | Systemic |
|                                                                                              | DNEL | Long term Dermal         | bw/day<br>2.77 mg/<br>kg bw/day | population<br>Workers                      | Systemic |
|                                                                                              | DNEL | Long term<br>Inhalation  | 24.5 mg/m³                      | Workers                                    | Systemic |
| Oligotriacrylate                                                                             | DNEL | Long term<br>Inhalation  | 7.4 mg/m³                       | Workers                                    | Systemic |
|                                                                                              | DNEL | Long term Dermal         | 2.1 mg/kg<br>bw/day             | Workers                                    | Systemic |
| (1-methyl-1,2-ethanediyl)bis[oxy<br>(methyl-2,1-ethanediyl)] diacrylate                      | DNEL | Long term Dermal         | 1.7 mg/kg<br>bw/day             | Workers                                    | Systemic |
| (, <u> </u>                                                                                  | DNEL | Long term<br>Inhalation  | 2.35 mg/m <sup>3</sup>          | Workers                                    | Systemic |
| Benzene, (1-methylethenyl)-,<br>homopolymer, ar-(2-hydroxy-<br>2-methyl-1-oxopropyl) derivs. | DNEL | Long term Oral           | 5.28 µg/kg<br>bw/day            | General population                         | Systemic |
| , , , , , ,                                                                                  | DNEL | Long term Dermal         | 5.28 µg/kg<br>bw/day            | General population                         | Systemic |
|                                                                                              | DNEL | Long term<br>Inhalation  | 9.18 μg/m³                      | General<br>population                      | Systemic |
|                                                                                              | DNEL | Long term Dermal         | 14.8 µg/kg<br>bw/day            | Workers                                    | Systemic |
|                                                                                              | DNEL | Long term<br>Inhalation  | 52.1 μg/m³                      | Workers                                    | Systemic |
| Phosphine oxide, phenylbis (2,4,6-trimethylbenzoyl)-                                         | DNEL | Long term<br>Inhalation  | 21 mg/m³                        | Workers                                    | Systemic |
| , , , , , , , , , , , , , , , , , , , ,                                                      | DNEL | Short term<br>Inhalation | 21 mg/m <sup>3</sup>            | Workers                                    | Systemic |
|                                                                                              | DNEL | Long term Dermal         | 3.3 mg/kg                       | Workers                                    | Systemic |
|                                                                                              | DNEL | Short term Dermal        | 3.3 mg/kg                       | Workers                                    | Systemic |
|                                                                                              | DNEL | Long term<br>Inhalation  | 5.2 mg/m <sup>3</sup>           | General population                         | Systemic |
|                                                                                              | DNEL | Long term Dermal         | 1.5 mg/kg                       | [Consumers] General population             | Systemic |
|                                                                                              | DNEL | Long term Oral           | 1.5 mg/kg                       | [Consumers] General population [Consumers] | Systemic |
|                                                                                              | DNEL | Short term Oral          | 1.67 ng/kg<br>bw/day            | General population                         | Systemic |
|                                                                                              | DNEL | Long term Oral           | 1.5 mg/kg<br>bw/day             | General population                         | Systemic |
|                                                                                              | DNEL | Long term Dermal         | 1.5 mg/kg<br>bw/day             | General population                         | Systemic |
|                                                                                              | DNEL | Short term Dermal        | 1.67 mg/<br>kg bw/day           | General population                         | Systemic |
|                                                                                              | DNEL | Short term<br>Inhalation | 1.93 mg/m <sup>3</sup>          | General population                         | Systemic |
|                                                                                              | DNEL | Long term<br>Inhalation  | 1.93 mg/m³                      | General population                         | Systemic |
|                                                                                              | DNEL | Long term Dermal         | 3 mg/kg<br>bw/day               | Workers                                    | Systemic |
|                                                                                              | DNEL | Short term Dermal        | 3.33 mg/                        | Workers                                    | Systemic |

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|--------------------------------------------------------------------------------------------------------------|-----------|---------------------------------------|------------------------------------|-----------------------|----------|
|                                                                                                              | DNEL      | Short term                            | kg bw/day<br>7.84 mg/m³            | Workers               | Systemic |
|                                                                                                              | DNEL      | Inhalation<br>Long term<br>Inhalation | 7.84 mg/m³                         | Workers               | Systemic |
| Methylbenzoylformiat                                                                                         | DNEL      | Long term Oral                        | 1.67 mg/                           | General<br>population | Systemic |
|                                                                                                              | DNEL      | Long term Dermal                      | kg bw/day<br>1.67 mg/<br>kg bw/day | General population    | Systemic |
|                                                                                                              | DNEL      | Long term Dermal                      | 3.33 mg/<br>kg bw/day              | Workers               | Systemic |
| Propylidynetrimethanol, ethoxylated, esters with acrylic acid                                                | DNEL      | Long term Dermal                      | 10.5 mg/<br>kg bw/day              | Workers               | Systemic |
| ·                                                                                                            | DNEL      | Long term<br>Inhalation               | 37 mg/m³                           | Workers               | Systemic |
| Fatty acids, C18-unsatd., dimers, polymers with acrylic acid, bisphenol A, epichlorohydrin and nonanoic acid | DNEL      | Long term Dermal                      | 0.33 mg/<br>kg bw/day              | Workers               | Systemic |
|                                                                                                              | DNEL      | Long term<br>Inhalation               | 1.18 mg/m³                         |                       | Systemic |
| 2-Methoxy-1-methylethyl acetate                                                                              | DNEL      | Long term<br>Inhalation               | 33 mg/m³                           | General population    | Local    |
|                                                                                                              | DNEL      | Long term<br>Inhalation               | 33 mg/m³                           | General<br>population | Systemic |
|                                                                                                              | DNEL      | Long term Oral                        | 36 mg/kg<br>bw/day                 | General population    | Systemic |
|                                                                                                              | DNEL      | Long term<br>Inhalation               | 275 mg/m³                          | Workers               | Systemic |
|                                                                                                              | DNEL      | Long term Dermal                      | 320 mg/kg<br>bw/day                | General<br>population | Systemic |
|                                                                                                              | DNEL      | Short term<br>Inhalation              | 550 mg/m <sup>3</sup>              | Workers               | Local    |
|                                                                                                              | DNEL      | Long term Dermal                      | 796 mg/kg<br>bw/day                | Workers               | Systemic |
| 2-Butoxyethanol                                                                                              | DNEL      | Long term Oral                        | 6.3 mg/kg<br>bw/day                | General population    | Systemic |
|                                                                                                              | DNEL      | Short term Oral                       | 26.7 mg/<br>kg bw/day              | General population    | Systemic |
|                                                                                                              | DNEL      | Long term<br>Inhalation               | 59 mg/m³                           | General<br>population | Systemic |
|                                                                                                              | DNEL      | Long term<br>Inhalation               | 98 mg/m³                           | Workers               | Systemic |
|                                                                                                              | DNEL      | Short term<br>Inhalation              | 147 mg/m³                          | General population    | Local    |
|                                                                                                              | DNEL      | Short term<br>Inhalation              | 246 mg/m <sup>3</sup>              | Workers               | Local    |
|                                                                                                              | DNEL      | Short term<br>Inhalation              | 426 mg/m <sup>3</sup>              | General population    | Systemic |
|                                                                                                              | DNEL      | Short term<br>Inhalation              | 1091 mg/<br>m³                     | Workers               | Systemic |
| Propylidynetrimethanol, ethoxylated, esters with acrylic acid                                                | DNEL      | Long term Dermal                      | 10.5 mg/<br>kg bw/day              | Workers               | Systemic |
| Soloro mar doi yilo doid                                                                                     | DNEL      | Long term<br>Inhalation               | 37 mg/m <sup>3</sup>               | Workers               | Systemic |
| 2-ethylhexan-1-ol                                                                                            | DNEL      | Long term Oral                        | 1.1 mg/kg<br>bw/day                | General population    | Systemic |
|                                                                                                              | DNEL      | Long term<br>Inhalation               | 2.3 mg/m <sup>3</sup>              | General population    | Systemic |
|                                                                                                              | DNEL      | Long term Dermal                      | 11.4 mg/<br>kg bw/day              | General population    | Systemic |
|                                                                                                              | DNEL      | Long term<br>Inhalation               | 12.8 mg/m <sup>3</sup>             | Workers               | Systemic |
|                                                                                                              | DNEL      | Long term Dermal                      | 23 mg/kg<br>bw/day                 | Workers               | Systemic |
|                                                                                                              | DNEL      | Short term<br>Inhalation              | 26.6 mg/m³                         | General population    | Local    |

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|----------------------|--------------|------------------|------------------------|------------|-------------|
|                      | DNEL         | Long term        | 26.6 mg/m <sup>3</sup> |            | Local       |
|                      |              | Inhalation       |                        | population |             |
|                      | DNEL         | Short term       | 53.2 mg/m <sup>3</sup> | Workers    | Local       |
|                      |              | Inhalation       |                        |            |             |
|                      | DNEL         | Long term        | 53.2 mg/m <sup>3</sup> | Workers    | Local       |
|                      |              | Inhalation       | J                      |            |             |
| 1,4-Dihydroxybenzene | DNEL         | Long term Oral   | 0.6 mg/kg              | General    | Systemic    |
|                      |              |                  | bw/day                 | population | ,           |
|                      | DNEL         | Long term        | 1.05 mg/m <sup>3</sup> | General    | Systemic    |
|                      | DIVEL        | Inhalation       | 1.00 1119/111          | population | Cyclonic    |
|                      | DNEL         | Long term Dermal | 1.66 mg/               | General    | Systemic    |
|                      | DIVLL        | Long term berman | kg bw/day              | population | Oystornic   |
|                      | DNEL         | Long term        | 2.1 mg/m <sup>3</sup>  | Workers    | Systemic    |
|                      | DINEL        | Inhalation       | 2. 1 mg/m              | WOIKEIS    | Systemic    |
|                      | DNEL         |                  | 2 22 mal               | Workers    | Customia    |
|                      | DINEL        | Long term Dermal | 3.33 mg/               | vvoikeis   | Systemic    |
| Talvana              | חאורו        | l 4 Ol           | kg bw/day              | 0          | C t ! -     |
| Toluene              | DNEL         | Long term Oral   | 8.13 mg/               | General    | Systemic    |
|                      |              |                  | kg bw/day              | population |             |
|                      | DNEL         | Long term        | 56.5 mg/m <sup>3</sup> |            | Local       |
|                      |              | Inhalation       |                        | population |             |
|                      | DNEL         | Long term        | 56.5 mg/m <sup>3</sup> |            | Systemic    |
|                      |              | Inhalation       |                        | population |             |
|                      | DNEL         | Long term        | 192 mg/m <sup>3</sup>  | Workers    | Local       |
|                      |              | Inhalation       |                        |            |             |
|                      | DNEL         | Long term        | 192 mg/m <sup>3</sup>  | Workers    | Systemic    |
|                      |              | Inhalation       |                        |            |             |
|                      | DNEL         | Long term Dermal | 226 mg/kg              | General    | Systemic    |
|                      |              | _                | bw/day                 | population | -           |
|                      | DNEL         | Short term       | 226 mg/m <sup>3</sup>  | General    | Local       |
|                      |              | Inhalation       |                        | population |             |
|                      | DNEL         | Short term       | 226 mg/m <sup>3</sup>  | General    | Systemic    |
|                      |              | Inhalation       | <b>5</b>               | population |             |
|                      | DNEL         | Long term Dermal | 384 mg/kg              | Workers    | Systemic    |
|                      | <del>-</del> | g                | bw/day                 |            | ,           |
|                      | DNEL         | Short term       | 384 mg/m <sup>3</sup>  | Workers    | Local       |
|                      | <b></b>      | Inhalation       |                        |            | <del></del> |
|                      | DNEL         | Short term       | 384 mg/m³              | Workers    | Systemic    |
|                      | DIVLL        | Inhalation       | OOT IIIg/III           | VVOINCIS   | Cyclonic    |
|                      |              | IIIIIaiaiiOII    |                        |            |             |

#### **PNECs**

No PNECs available

#### 8.2 Exposure controls

**Appropriate engineering** controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

#### **Individual protection measures**

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** 

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

**Skin protection** 

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#### Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Recommendations: Wear suitable gloves tested to EN374.

< 1 hour (breakthrough time): Nitrile gloves. thickness > 0.3 mm

1 - 4 hours (breakthrough time): 4H / Silver Shield® gloves.

**Body protection** 

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** 

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Filter type: A

Filter type (spray application): A P

**Environmental exposure** controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

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

#### **Appearance**

Physical state : Liquid.

Colour : Dark grey.

Odour : Slight

Odour threshold : Not available.

Initial boiling point and

Melting point/freezing point

boiling range

: Not available.

Ingredient name

°C

°F

Method

7-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate

Propylidynetrimethanol, ethoxylated, esters with acrylic acid

°C

°F

Method

>248

>248

OECD 103

Flammability (solid, gas) : Not available.

Upper/lower flammability or

explosive limits

Lower: Not applicable.
 Upper: Not applicable.

Flash point : Closed cup: >100°C (>212°F)

Auto-ignition temperature

| Ingredient name                  | °C  | °F  | Method    |
|----------------------------------|-----|-----|-----------|
| <b>⊮</b> examethylene diacrylate | 235 | 455 | DIN 51794 |

Decomposition temperature : Not available.pH : Not applicable.Viscosity : Not available.

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

Solubility(ies)

Not available.

Solubility in water : Not available.

Partition coefficient: n-octanol/ : Not applicable.

water

Vapour pressure

| •                                                                    | Vapour Pressure at 20°C |          |        | Var   | re at 50°C |        |
|----------------------------------------------------------------------|-------------------------|----------|--------|-------|------------|--------|
| Ingredient name                                                      | mm Hg                   | kPa      | Method | mm Hg | kPa        | Method |
| <b>⊮</b> examethylene diacrylate                                     | 0.00045                 | 0.00006  | EU A.4 |       |            |        |
| (1-methyl-1,2-ethanediyl)bis[oxy (methyl-2,1-ethanediyl)] diacrylate | 0.00003                 | 0.000004 | EU A.4 |       |            |        |

Relative density : Not available.

Density : 1.2 g/cm³
Vapour density : Not available.

Explosive properties : Not available.

Oxidising properties : Not available.

**Particle characteristics** 

Median particle size : Not applicable.

# **SECTION 10: Stability and reactivity**

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

**10.2 Chemical stability** : The product is stable.

10.3 Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : No specific data.

10.5 Incompatible materials : No specific data.

10.6 Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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# **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

#### **Acute toxicity**

| Product/ingredient name               | Result      | Species Dose |             | Exposure |
|---------------------------------------|-------------|--------------|-------------|----------|
| <b>⊮</b> examethylene diacrylate      | LD50 Oral   | Rat          | 5 g/kg      | -        |
| (1-methyl-1,2-ethanediyl)bis          | LD50 Oral   | Rat          | 6200 mg/kg  | -        |
| [oxy(methyl-2,1-ethanediyl)]          |             |              |             |          |
| diacrylate                            |             |              |             |          |
| Phosphine oxide, phenylbis            | LD50 Oral   | Rat          | >2000 mg/kg | -        |
| (2,4,6-trimethylbenzoyl)-             |             |              |             |          |
| Propylidynetrimethanol,               | LD50 Dermal | Rabbit       | >13 g/kg    | -        |
| ethoxylated, esters with              |             |              |             |          |
| acrylic acid                          |             |              | - "         |          |
| 2-Methoxy-1-methylethyl acetate       | LD50 Dermal | Rabbit       | >5 g/kg     | -        |
| acciaic                               | LD50 Oral   | Rat          | 8532 mg/kg  | _        |
| Propylidynetrimethanol,               | LD50 Dermal | Rabbit       | >13 g/kg    | -        |
| ethoxylated, esters with acrylic acid |             |              | 0 0         |          |
| ,                                     |             |              |             |          |

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# **SECTION 11: Toxicological information**

| 2-ethylhexan-1-ol         | LD50 Dermal               | Rabbit | 1970 mg/kg  | -       |
|---------------------------|---------------------------|--------|-------------|---------|
|                           | LD50 Oral                 | Rat    | 3730 mg/kg  | -       |
| copper bis                | LC50 Inhalation Dusts and | Rat    | 0.12 mg/l   | 4 hours |
| (dimethyldithiocarbamate) | mists                     |        |             |         |
|                           | LD50 Dermal               | Rabbit | >2000 mg/kg | -       |
|                           | LD50 Oral                 | Rat    | >5000 mg/kg | -       |
| 1,4-Dihydroxybenzene      | LD50 Oral                 | Rat    | 302 mg/kg   | -       |
| Toluene                   | LC50 Inhalation Vapour    | Rat    | 49 g/m³     | 4 hours |
|                           | LD50 Oral                 | Rat    | 636 mg/kg   | -       |

# **Conclusion/Summary Acute toxicity estimates**

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

| Route          | ATE value |
|----------------|-----------|
| Not available. |           |

## **Irritation/Corrosion**

| Product/ingredient name                                       | Result                                        | Species          | Score | Exposure                   | Observation |
|---------------------------------------------------------------|-----------------------------------------------|------------------|-------|----------------------------|-------------|
| ⊮examethylene diacrylate                                      | Skin - Severe irritant                        | Rabbit           | -     | 24 hours 500               | -           |
|                                                               |                                               |                  |       | mg                         |             |
| titanium dioxide                                              | Skin - Mild irritant                          | Human            | -     | 72 hours 300               | -           |
| (1-methyl-1,2-ethanediyl)bis [oxy(methyl-2,1-ethanediyl)]     | Eyes - Severe irritant                        | Rabbit           | -     | ug I<br>24 hours 100<br>uL | -           |
| diacrylate                                                    | Skin - Moderate irritant                      | Rabbit           | _     | 500 mg                     | _           |
| Propylidynetrimethanol, ethoxylated, esters with acrylic acid | Eyes - Moderate irritant                      | Rabbit           | -     | 100 mg                     | -           |
|                                                               | Skin - Moderate irritant                      | Rabbit           | -     | 500 mg                     | -           |
| 2-Butoxyethanol                                               | Eyes - Moderate irritant                      | Rabbit           | -     | 24 hours 100               | -           |
|                                                               |                                               | 5                |       | mg                         |             |
|                                                               | Eyes - Severe irritant                        | Rabbit           | -     | 100 mg                     | -           |
| Propylidynetrimethanol,                                       | Skin - Mild irritant Eyes - Moderate irritant | Rabbit<br>Rabbit | -     | 500 mg<br>100 mg           | -           |
| ethoxylated, esters with acrylic acid                         | Eyes - Moderate Initiant                      | Nabbit           | -     | 100 mg                     | -           |
|                                                               | Skin - Moderate irritant                      | Rabbit           | -     | 500 mg                     | -           |
| 2-ethylhexan-1-ol                                             | Eyes - Moderate irritant                      | Rabbit           | -     | 24 hours 20<br>mg          | -           |
|                                                               | Eyes - Moderate irritant                      | Rabbit           | -     | 20 ug                      | -           |
|                                                               | Eyes - Severe irritant                        | Rabbit           | -     | 20 mg                      | -           |
|                                                               | Skin - Mild irritant                          | Rabbit           | -     | 415 mg                     | -           |
|                                                               | Skin - Moderate irritant                      | Rabbit           | -     | 24 hours 500               | -           |
|                                                               | Skin - Severe irritant                        | Rabbit           | _     | mg<br>0.5 MI               | -           |
| 1,4-Dihydroxybenzene                                          | Skin - Mild irritant                          | Human            | -     | 2 %                        | _           |
| , , ,                                                         | Skin - Severe irritant                        | Human            | -     | 5 %                        | -           |
| Toluene                                                       | Eyes - Mild irritant                          | Rabbit           | -     | 0.5 minutes                | -           |
|                                                               |                                               | 5                |       | 100 mg                     |             |
|                                                               | Eyes - Mild irritant                          | Rabbit           | -     | 870 ug                     | -           |
|                                                               | Eyes - Severe irritant                        | Rabbit           | -     | 24 hours 2                 | -           |
|                                                               | Skin - Mild irritant                          | Pig              | -     | mg<br>24 hours 250<br>uL   | -           |
|                                                               | Skin - Mild irritant                          | Rabbit           | _     | 435 mg                     | _           |
|                                                               | Skin - Moderate irritant                      | Rabbit           | -     | 24 hours 20                | -           |
|                                                               | Skin - Moderate irritant                      | Rabbit           | -     | mg<br>500 mg               | -           |

**Conclusion/Summary** 

: Causes skin irritation.

**Sensitisation** 

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# **SECTION 11: Toxicological information**

| Product/ingredient name                              | Route of exposure | Species    | Result      |
|------------------------------------------------------|-------------------|------------|-------------|
| Phosphine oxide, phenylbis (2,4,6-trimethylbenzoyl)- | skin              | Guinea pig | Sensitising |

**Conclusion/Summary** : May cause an allergic skin reaction.

**Mutagenicity** 

| Product/ingredient name                              | Test | Experiment        | Result   |
|------------------------------------------------------|------|-------------------|----------|
| Phosphine oxide, phenylbis (2,4,6-trimethylbenzoyl)- | -    | Subject: Bacteria | Negative |

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

**Carcinogenicity** 

It has been observed that the carcinogenic hazard of this product arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung.

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

**Reproductive toxicity** 

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

**Teratogenicity** 

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure)

| Product/ingredient name                                                                             | Category              | Route of exposure | Target organs                                 |
|-----------------------------------------------------------------------------------------------------|-----------------------|-------------------|-----------------------------------------------|
| (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate 2-Methoxy-1-methylethyl acetate | Category 3            | -                 | Respiratory tract irritation Narcotic effects |
| 2-ethylhexan-1-ol Toluene                                                                           | Category 3 Category 3 | -                 | Respiratory tract irritation Narcotic effects |

#### Specific target organ toxicity (repeated exposure)

| Product/ingredient name | Category   | Route of exposure | Target organs |
|-------------------------|------------|-------------------|---------------|
| Toluene                 | Category 2 | -                 | -             |

#### **Aspiration hazard**

| Product/ingredient name | Result                         |
|-------------------------|--------------------------------|
| Toluene                 | ASPIRATION HAZARD - Category 1 |

**Information on likely routes**: Not available.

of exposure

Potential acute health effects

**Eve contact** : Causes serious eye irritation.

Inhalation : No known significant effects or critical hazards.

: Causes skin irritation. May cause an allergic skin reaction. Skin contact

Ingestion : No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : Adverse symptoms may include the following:

> pain or irritation watering redness

Inhalation : No specific data.

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# **SECTION 11: Toxicological information**

**Skin contact** : Adverse symptoms may include the following:

> irritation redness

: No specific data. Ingestion

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Short term exposure** 

**Potential immediate** 

effects

: Not available.

Potential delayed effects

: Not available.

**Long term exposure** 

**Potential immediate** 

: Not available.

effects

**Potential delayed effects** : Not available.

Potential chronic health effects

Not available.

**Conclusion/Summary** : Not available.

General : Once sensitized, a severe allergic reaction may occur when subsequently exposed

to very low levels.

Carcinogenicity : No known significant effects or critical hazards. Mutagenicity : No known significant effects or critical hazards. Reproductive toxicity : No known significant effects or critical hazards.

Other information : Not available.

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

| Product/ingredient name          | Result                               | Species                        | Exposure |
|----------------------------------|--------------------------------------|--------------------------------|----------|
| <b>⊮</b> examethylene diacrylate | EC50 1.09 mg/l                       | Algae - Algae - Selenastrum    | 72 hours |
|                                  |                                      | capricornutum                  |          |
|                                  | EC50 2.7 mg/l                        | Daphnia - Daphnia - Daphnia    | 48 hours |
|                                  |                                      | magna                          |          |
|                                  | LC50 0.38 mg/l                       | Fish - Oryzias latipes         | 96 hours |
|                                  | NOEC 0.5 mg/l                        | Algae - Algae - Desmodesmus    | 72 hours |
|                                  |                                      | subspicatus                    |          |
|                                  | NOEC 0.14 mg/l                       | Daphnia - Daphnia - Daphnia    | 21 days  |
|                                  |                                      | magna                          |          |
|                                  | NOEC 0.072 mg/l                      | Fish - Oryzias latipes         | 96 hours |
| titanium dioxide                 | Acute LC50 3 mg/l Fresh water        | Crustaceans - Water flea -     | 48 hours |
|                                  |                                      | Ceriodaphnia dubia - Neonate   |          |
|                                  | Acute LC50 6.5 mg/l Fresh water      | Daphnia - Water flea - Daphnia | 48 hours |
|                                  |                                      | pulex - Neonate                |          |
|                                  | Acute LC50 >1000000 µg/l Marine      | Fish - Mummichog - Fundulus    | 96 hours |
|                                  | water                                | heteroclitus                   |          |
| Phosphine oxide, phenylbis       | EC50 ≥0.26 mg/l                      | Aquatic plants - Desmodesmus   | 72 hours |
| (2,4,6-trimethylbenzoyl)-        |                                      | subspicatus                    |          |
|                                  | NOEC ≥0.008 mg/l Fresh water         | Daphnia - <i>Daphnia magna</i> | 21 days  |
|                                  | Acute EC50 >1.175 mg/l               | Daphnia - Daphnia magna        | 48 hours |
|                                  | Acute LC50 >0.09 mg/l                | Fish - Brachydanio rerio       | 96 hours |
| 2-Butoxyethanol                  | Acute EC50 >1000 mg/l Fresh water    | Daphnia - Water flea - Daphnia | 48 hours |
| ,                                |                                      | magna                          |          |
|                                  | Acute LC50 800000 µg/l Marine water  | Crustaceans - Common shrimp,   | 48 hours |
|                                  |                                      | sand shrimp - Crangon crangon  |          |
|                                  | Acute LC50 1250000 µg/l Marine water | Fish - Inland silverside -     | 96 hours |
|                                  |                                      | Menidia beryllina              |          |
| 2-ethylhexan-1-ol                | Acute LC50 28200 µg/l Fresh water    | Fish - Fathead minnow -        | 96 hours |
| _                                | . 5                                  | Pimephales promelas            |          |
|                                  |                                      | , ,                            |          |

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# **SECTION 12: Ecological information**

| copper bis                | Acute LC50 71 μg/l Fresh water        | Fish - Fathead minnow -               | 96 hours  |
|---------------------------|---------------------------------------|---------------------------------------|-----------|
| (dimethyldithiocarbamate) |                                       | Pimephales promelas                   |           |
| 1,4-Dihydroxybenzene      | Acute EC50 130 μg/l Fresh water       | Daphnia - Water flea - Daphnia        | 48 hours  |
|                           |                                       | magna - Larvae                        |           |
|                           | Acute LC50 44 µg/l Fresh water        | Fish - Rainbow trout,donaldson        | 96 hours  |
|                           |                                       | trout - Oncorhynchus mykiss           |           |
| Toluene                   | Acute EC50 12500 µg/l Fresh water     | Algae - Green algae -                 | 72 hours  |
|                           |                                       | Pseudokirchneriella subcapitata       |           |
|                           | Acute EC50 11600 µg/l Fresh water     | Crustaceans - Scud -                  | 48 hours  |
|                           |                                       | Gammarus pseudolimnaeus -             |           |
|                           |                                       | Adult                                 |           |
|                           | Acute EC50 5.56 mg/l Fresh water      | Daphnia - Water flea - Daphnia        | 48 hours  |
|                           |                                       | magna - Neonate                       |           |
|                           | Acute LC50 5500 µg/l Fresh water      | Fish - Coho salmon,silver             | 96 hours  |
|                           |                                       | salmon - Oncorhynchus kisutch         | 001100110 |
|                           |                                       | - Fry                                 |           |
|                           | Chronic NOEC 1000 µg/l Fresh water    | Daphnia - Water flea - <i>Daphnia</i> | 21 days   |
|                           | Silionio 14020 1000 µg/11 10311 Water | '                                     | 2 i days  |
|                           |                                       | magna                                 |           |

**Conclusion/Summary** 

: Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

#### 12.2 Persistence and degradability

**Conclusion/Summary**: This product has not been tested for biodegradation.

| Product/ingredient name                              | Aquatic half-life | Photolysis | Biodegradability |
|------------------------------------------------------|-------------------|------------|------------------|
| Phosphine oxide, phenylbis (2,4,6-trimethylbenzoyl)- | -                 | -          | Not readily      |
| Propylidynetrimethanol, ethoxylated, esters with     | -                 | -          | Readily          |
| acrylic acid                                         |                   |            |                  |

## 12.3 Bioaccumulative potential

| Product/ingredient name                                   | LogPow | BCF   | Potential |
|-----------------------------------------------------------|--------|-------|-----------|
| ⊮examethylene diacrylate                                  | 2.81   | -     | Low       |
| Oligotriacrylate                                          | 2.52   | -     | Low       |
| (1-methyl-1,2-ethanediyl)bis [oxy(methyl-2,1-ethanediyl)] | 2      | -     | Low       |
| diacrylate                                                |        |       |           |
| Phosphine oxide, phenylbis                                | 5.77   | <5    | Low       |
| (2,4,6-trimethylbenzoyl)-                                 |        |       |           |
| Propylidynetrimethanol,                                   | 2.89   | -     | Low       |
| ethoxylated, esters with                                  |        |       |           |
| acrylic acid                                              |        |       |           |
| 2-Methoxy-1-methylethyl acetate                           | 1.2    | -     | Low       |
| 2-Butoxyethanol                                           | 0.81   | -     | Low       |
| Propylidynetrimethanol,                                   | 2.89   | -     | Low       |
| ethoxylated, esters with                                  |        |       |           |
| acrylic acid                                              |        |       |           |
| 2-ethylhexan-1-ol                                         | 2.9    | 25.33 | Low       |
| 1,4-Dihydroxybenzene                                      | 0.59   | 3.162 | Low       |
| Toluene                                                   | 2.73   | 90    | Low       |

#### 12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility : Not available.

# 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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# **SECTION 12: Ecological information**

12.6 Other adverse effects

: No known significant effects or critical hazards.

# **SECTION 13: Disposal considerations**

: 080111\*

#### 13.1 Waste treatment methods

#### **Product**

**Methods of disposal** 

: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** 

European waste catalogue (EWC)

: The classification of the product may meet the criteria for a hazardous waste.

**Packaging** 

**Methods of disposal** 

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions** 

: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

# **SECTION 14: Transport information**

|                                  | ADR/RID                                                                 | ADN                                                                     | IMDG                                                                    | IATA                                                                    |
|----------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|
| 14.1 UN number                   | UN3082                                                                  | UN3082                                                                  | UN3082                                                                  | UN3082                                                                  |
| 14.2 UN proper shipping name     | ENVIRONMENTALLY<br>HAZARDOUS<br>SUBSTANCE,<br>LIQUID, N.O.S.<br>(PAINT) | ENVIRONMENTALLY<br>HAZARDOUS<br>SUBSTANCE,<br>LIQUID, N.O.S.<br>(PAINT) | ENVIRONMENTALLY<br>HAZARDOUS<br>SUBSTANCE,<br>LIQUID, N.O.S.<br>(PAINT) | ENVIRONMENTALLY<br>HAZARDOUS<br>SUBSTANCE,<br>LIQUID, N.O.S.<br>(PAINT) |
| 14.3 Transport hazard class(es)  | 9                                                                       | 9                                                                       | 9                                                                       | 9                                                                       |
| 14.4 Packing group               | III                                                                     | III                                                                     | III                                                                     | III                                                                     |
| 14.5<br>Environmental<br>hazards | Yes.                                                                    | Yes.                                                                    | Yes.                                                                    | Yes.                                                                    |

#### **Additional information**

ADR/RID

: This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

Tunnel code (-)

**ADN** 

: This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

**IMDG** 

: This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

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# SECTION 14: Transport information

**IATA** 

: This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

user

14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to IMO instruments

: Not relevant/applicable due to nature of the product.

## SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture **UK (GB)/REACH** 

Annex XIV - List of substances subject to authorisation

**Annex XIV** 

None of the components are listed.

Substances of very high concern

None of the components are listed.

Ozone depleting substances

Not listed.

**Prior Informed Consent (PIC)** 

Not listed.

**Persistent Organic Pollutants** 

Not listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

No listed substance

**Seveso Directive** 

This product is controlled under the Seveso Directive.

**Danger criteria** 

Category

E1

**EU regulations** 

**Industrial emissions** : Not listed

(integrated pollution prevention and control) -

**Industrial emissions** 

: Not listed

(integrated pollution prevention and control) -

Water

**International regulations** 

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

**Montreal Protocol** 

Not listed.

**Stockholm Convention on Persistent Organic Pollutants** 

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## **SECTION 15: Regulatory information**

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

15.2 Chemical safety assessment

This product contains substances for which Chemical Safety Assessments are still required.

## **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

**Abbreviations and** acronyms

: ATE = Acute Toxicity Estimate

GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and

Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019

No. 720 and amendments

DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level

EUH statement = GB CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

#### Procedure used to derive the classification

| Classification          | Justification      |
|-------------------------|--------------------|
| Skin Irrit. 2, H315     | Calculation method |
| Eye Irrit. 2, H319      | Calculation method |
| Skin Sens. 1, H317      | Calculation method |
| Aquatic Acute 1, H400   | Calculation method |
| Aquatic Chronic 2, H411 | Calculation method |

## Full text of abbreviated H statements

| <b>⊬</b> 225 | Highly flammable liquid and vapour.                                |
|--------------|--------------------------------------------------------------------|
| H226         | Flammable liquid and vapour.                                       |
| H302         | Harmful if swallowed.                                              |
| H304         | May be fatal if swallowed and enters airways.                      |
| H315         | Causes skin irritation.                                            |
| H317         | May cause an allergic skin reaction.                               |
| H318         | Causes serious eye damage.                                         |
| H319         | Causes serious eye irritation.                                     |
| H330         | Fatal if inhaled.                                                  |
| H332         | Harmful if inhaled.                                                |
| H335         | May cause respiratory irritation.                                  |
| H336         | May cause drowsiness or dizziness.                                 |
| H341         | Suspected of causing genetic defects.                              |
| H351         | Suspected of causing cancer.                                       |
| H361d        | Suspected of damaging the unborn child.                            |
| H361f        | Suspected of damaging fertility.                                   |
| H373         | May cause damage to organs through prolonged or repeated exposure. |
| H400         | Very toxic to aquatic life.                                        |
| 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.            |
|              |                                                                    |

#### **Full text of classifications**

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## **SECTION 16: Other information**

Acute Tox. 2 ACUTE TOXICITY - Category 2
Acute Tox. 4 ACUTE TOXICITY - Category 4

Aquatic Acute 1 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 3 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Aquatic Chronic 4 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4

Asp. Tox. 1 ASPIRATION HAZARD - Category 1 Carc. 2 CARCINOGENICITY - Category 2

Eye Dam. 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

Flam. Liq. 2 FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3 FLAMMABLE LIQUIDS - Category 3
Muta. 2 GERM CELL MUTAGENICITY - Category 2
Repr. 2 REPRODUCTIVE TOXICITY - Category 2
Skin Irrit. 2 SKIN CORROSION/IRRITATION - Category 2

Skin Sens. 1 SKIN SENSITISATION - Category 1
Skin Sens. 1A SKIN SENSITISATION - Category 1A
Skin Sens. 1B SKIN SENSITISATION - Category 1B

STOT RE 2 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 STOT SE 3 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

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#### **Notice to reader**

The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfil the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.

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