

## SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830

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

#### 1.1 Product identifier

**Product identifier** : S951  
**Product name** : TRANSPARENT RED ADDITIVE  
**Product type** : Liquid.  
**Other means of identification** : 1250089475  
**Date of issue** : 12 October 2021  
**Version** : 10.4  
**Date of previous issue** : 12 October 2021

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

**Identified uses** : Coating component.  
**Uses advised against** : Not for sale to or use by consumers.

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

Axalta Coating Systems Germany GmbH & Co. KG  
Christbusch 25  
DE 42285 Wuppertal  
+49 (0)202 529-0  
**e-mail address of person responsible for this SDS** : sds-competence@axalta.com

#### 1.4 Emergency telephone number

**Supplier**  
+(44)-870-8200418

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

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

Flam. Liq. 3, H226  
Skin Irrit. 2, H315  
Eye Irrit. 2, H319  
STOT SE 3, H335

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

## SECTION 2: Hazards identification

**Ingredients of unknown toxicity** : 5.8 percent of the mixture consists of component(s) of unknown acute dermal toxicity  
7.7 percent of the mixture consists of component(s) of unknown acute inhalation toxicity

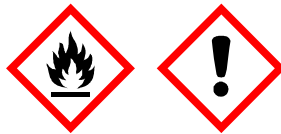
**Ingredients of unknown ecotoxicity** : Contains 3.5% of components with unknown hazards to the aquatic environment

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

**Contains** : xylene

**Hazard statements** : H226 - Flammable liquid and vapour.  
H315 - Causes skin irritation.  
H319 - Causes serious eye irritation.  
H335 - May cause respiratory irritation.

#### Precautionary statements

**Prevention** : P280 - Wear protective gloves. Wear eye or face protection.  
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P261 - Avoid breathing vapour.  
P264 - Wash thoroughly after handling.

**Response** : P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.  
P302 + P352 - IF ON SKIN: Wash with plenty of water.

**Storage** : Not applicable.

**Disposal** : Not applicable.

**Supplemental label elements** : Contains Fatty acids, linseed-oil, reaction products with 2-amino-2-(hydroxymethyl)-1,3-propanediol and formaldehyde, methyl methacrylate, butyl methacrylate, Naphthenic acids and 2-hydroxyethyl acrylate. May produce an allergic reaction.

**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   | %         | Regulation (EC) No. 1272/2008 [CLP]  | Type    |
|---|---|-----------|--|---------|
| xylene  | REACH #:<br>01-2119539452-40<br>EC: 215-535-7<br>CAS: 1330-20-7                       | ≥25 - ≤43 | Flam. Liq. 3, H226<br>Acute Tox. 4, H312<br>Acute Tox. 4, H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>STOT SE 3, H335                             | [1] [2] |
| n-butyl acetate   | REACH #:<br>01-2119485493-29<br>EC: 204-658-1<br>CAS: 123-86-4                        | ≥10 - ≤17 | Flam. Liq. 3, H226<br>STOT SE 3, H336<br>EUH066  | [1] [2] |
| ethylbenzene  | REACH #:<br>01-2119489370-35<br>EC: 202-849-4<br>CAS: 100-41-4                        | <10       | Flam. Liq. 2, H225<br>Acute Tox. 4, H332<br>STOT RE 2, H373<br>Asp. Tox. 1, H304<br>Aquatic Chronic 3, H412  | [1] [2] |
| isopentyl acetate   | REACH #:<br>01-2119548408-32<br>EC: 204-662-3<br>CAS: 123-92-2<br>Index: 607-130-00-2 | ≤2        | Flam. Liq. 3, H226<br>EUH066   | [1] [2] |
| Fatty acids, linseed-oil, reaction products with 2-amino-2-(hydroxymethyl)-1,3-propanediol and formaldehyde | REACH #:<br>01-2120771590-53<br>EC: 279-510-2<br>CAS: 80584-99-2                      | <1        | Skin Sens. 1B, H317<br>Aquatic Chronic 3, H412   | [1]     |
| methyl methacrylate   | REACH #:<br>01-2119452498-28<br>EC: 201-297-1<br>CAS: 80-62-6                         | <1        | Flam. Liq. 2, H225<br>Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>STOT SE 3, H335   | [1] [2] |
| 2-methylbutyl acetate   | EC: 210-843-8<br>CAS: 624-41-9  | ≤0.52     | Flam. Liq. 3, H226<br>EUH066   | [1] [2] |
| butyl methacrylate  | REACH #:<br>01-2119486394-28<br>EC: 202-615-1<br>CAS: 97-88-1                         | <1        | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1B, H317<br>STOT SE 3, H335  | [1]     |
| toluene   | REACH #:<br>01-2119471310-51<br>EC: 203-625-9<br>CAS: 108-88-3                        | ≤0.3      | Flam. Liq. 2, H225<br>Skin Irrit. 2, H315<br>Repr. 2, H361d (inhalation)<br>STOT SE 3, H336<br>STOT RE 2, H373 (central nervous system (CNS)) (inhalation) | [1] [2] |
| Naphthenic acids  | CAS: 1338-24-5  | ≤0.2      | Asp. Tox. 1, H304<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1B, H317  | [1]     |
| 2-hydroxyethyl acrylate   | REACH #:<br>01-2119459345-34<br>EC: 212-454-9   | ≤0.16     | Acute Tox. 4, H302<br>Acute Tox. 3, H311<br>Skin Corr. 1B, H314  | [1]     |

### SECTION 3: Composition/information on ingredients

|  |                                      |  |   |
|--|--------------------------------------|--|---|
|  | CAS: 818-61-1<br>Index: 607-072-00-8 |  | Eye Dam. 1, H318<br>Skin Sens. 1, H317<br>Aquatic Acute 1, H400<br>(M=1)<br>Aquatic Chronic 3,<br>H412<br><b>See Section 16 for<br/>the full text of the H<br/>statements declared<br/>above.</b> |
|--|--------------------------------------|--|---|

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 physical, health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

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

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General** : In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.
- Eye contact** : Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
- Inhalation** : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
- Skin contact** : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
- Ingestion** : If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

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

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption

## SECTION 4: First aid measures

through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains Fatty acids, linseed-oil, reaction products with 2-amino-2-(hydroxymethyl)-1,3-propanediol and formaldehyde, methyl methacrylate, butyl methacrylate, Naphthenic acids, 2-hydroxyethyl acrylate. May produce an allergic reaction.

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

**Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments** : No specific treatment.

See toxicological information (Section 11)

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media** : Recommended: alcohol-resistant foam, CO<sub>2</sub>, powders, water spray.

**Unsuitable extinguishing media** : Do not use water jet.

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

**Hazards from the substance or mixture** : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

**Hazardous combustion products** : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

### 5.3 Advice for firefighters

**Special protective actions for fire-fighters** : Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.

**Special protective equipment for fire-fighters** : Appropriate breathing apparatus may be required.

## SECTION 6: Accidental release measures

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

**For non-emergency personnel** : Exclude sources of ignition and ventilate the area. Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8.

**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

: Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

## SECTION 6: Accidental release measures

**6.3 Methods and material for containment and cleaning up** : 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). Preferably clean with a detergent. Avoid using solvents.

**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** : Prevent the creation of flammable or explosive concentrations of vapours in air and avoid vapour concentrations higher than the occupational exposure limits. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear antistatic footwear and clothing and floors should be of the conducting type. Keep away from heat, sparks and flame. No sparking tools should be used. Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from sanding. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Put on appropriate personal protective equipment (see Section 8). Never use pressure to empty. Container is not a pressure vessel. Always keep in containers made from the same material as the original one. Comply with the health and safety at work laws. Do not allow to enter drains or watercourses.

**Information on fire and explosion protection**  
Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

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

Store in accordance with local regulations.

#### Notes on joint storage

Keep away from: oxidising agents, strong alkalis, strong acids.

#### Additional information on storage conditions

Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

### 7.3 Specific end use(s)

**Recommendations** : Not available.

**Industrial sector specific solutions** : Not available.

## SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

### 8.1 Control parameters

#### Occupational exposure limits

| Product/ingredient name | CAS no.   | Exposure limit values   |
|-------------------------|-----------|---|
| xylene                  | 1330-20-7 | <b>EH40/2005 WELs (United Kingdom (UK), 1/2020).</b><br><b>Absorbed through skin.</b><br>STEL: 441 mg/m <sup>3</sup> 15 minutes.<br>TWA: 50 ppm 8 hours.<br>TWA: 220 mg/m <sup>3</sup> 8 hours.<br>STEL: 100 ppm 15 minutes.  |
| n-butyl acetate         | 123-86-4  | <b>EH40/2005 WELs (United Kingdom (UK), 1/2020).</b><br>STEL: 966 mg/m <sup>3</sup> 15 minutes.<br>STEL: 200 ppm 15 minutes.<br>TWA: 724 mg/m <sup>3</sup> 8 hours.<br>TWA: 150 ppm 8 hours.                                  |
| ethylbenzene            | 100-41-4  | <b>EH40/2005 WELs (United Kingdom (UK), 1/2020).</b><br><b>Absorbed through skin.</b><br>STEL: 552 mg/m <sup>3</sup> 15 minutes.<br>STEL: 125 ppm 15 minutes.<br>TWA: 100 ppm 8 hours.<br>TWA: 441 mg/m <sup>3</sup> 8 hours. |
| isopentyl acetate       | 123-92-2  | <b>EH40/2005 WELs (United Kingdom (UK), 1/2020).</b><br>STEL: 541 mg/m <sup>3</sup> 15 minutes.<br>STEL: 100 ppm 15 minutes.<br>TWA: 50 ppm 8 hours.<br>TWA: 270 mg/m <sup>3</sup> 8 hours.                                   |
| methyl methacrylate     | 80-62-6   | <b>EH40/2005 WELs (United Kingdom (UK), 1/2020).</b><br>STEL: 416 mg/m <sup>3</sup> 15 minutes.<br>STEL: 100 ppm 15 minutes.<br>TWA: 208 mg/m <sup>3</sup> 8 hours.<br>TWA: 50 ppm 8 hours.                                   |
| 2-methylbutyl acetate   | 624-41-9  | <b>EH40/2005 WELs (United Kingdom (UK), 1/2020).</b><br>STEL: 541 mg/m <sup>3</sup> 15 minutes.<br>STEL: 100 ppm 15 minutes.<br>TWA: 50 ppm 8 hours.<br>TWA: 270 mg/m <sup>3</sup> 8 hours.                                   |
| toluene                 | 108-88-3  | <b>EH40/2005 WELs (United Kingdom (UK), 1/2020).</b><br><b>Absorbed through skin.</b><br>STEL: 384 mg/m <sup>3</sup> 15 minutes.<br>TWA: 191 mg/m <sup>3</sup> 8 hours.<br>TWA: 50 ppm 8 hours.<br>STEL: 100 ppm 15 minutes.  |

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482

## SECTION 8: Exposure controls/personal protection

(Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) 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  |
|-------------------------|------|-----------------------|------------------------|--------------------|----------|
| xylene                  | DNEL | Long term Inhalation  | 77 mg/m <sup>3</sup>   | Workers            | Systemic |
|                         | DNEL | Long term Dermal      | 180 mg/kg bw/day       | Workers            | Systemic |
|                         | DNEL | Short term Inhalation | 289 mg/m <sup>3</sup>  | Workers            | Local    |
|                         | DNEL | Short term Inhalation | 289 mg/m <sup>3</sup>  | Workers            | Systemic |
|                         | DNEL | Long term Inhalation  | 50.17 ppm              | Workers            | Systemic |
|                         | DNEL | Long term Dermal      | 3182 mg/kg bw/day      | Workers            | Systemic |
| n-butyl acetate         | DNEL | Long term Dermal      | 11 mg/kg bw/day        | Workers            | Systemic |
|                         | DNEL | Long term Inhalation  | 300 mg/m <sup>3</sup>  | Workers            | Systemic |
|                         | DNEL | Short term Inhalation | 600 mg/m <sup>3</sup>  | Workers            | Systemic |
|                         | DNEL | Short term Dermal     | 11 mg/kg bw/day        | Workers            | Systemic |
| ethylbenzene            | DNEL | Long term Inhalation  | 77 mg/m <sup>3</sup>   | Workers            | Systemic |
|                         | DNEL | Long term Dermal      | 180 mg/kg bw/day       | Workers            | Systemic |
|                         | DNEL | Short term Inhalation | 293 mg/m <sup>3</sup>  | Workers            | Local    |
|                         | DMEL | Long term Inhalation  | 442 mg/m <sup>3</sup>  | Workers            | Local    |
|                         | DMEL | Short term Inhalation | 884 mg/m <sup>3</sup>  | Workers            | Systemic |
|                         | DNEL | Long term Inhalation  | 17.73 ppm              | Workers            | Systemic |
| isopentyl acetate       | DNEL | Long term Dermal      | 2.95 mg/kg bw/day      | Workers            | Systemic |
|                         | DNEL | Long term Inhalation  | 20.8 mg/m <sup>3</sup> | Workers            | Systemic |
|                         | DNEL | Long term Oral        | 1.47 mg/kg bw/day      | General population | Systemic |
|                         | DNEL | Long term Dermal      | 1.47 mg/kg bw/day      | General population | Systemic |
|                         | DNEL | Long term Inhalation  | 5.1 mg/m <sup>3</sup>  | General population | Systemic |
| methyl methacrylate     | DNEL | Long term Dermal      | 13.67 mg/kg bw/day     | Workers            | Systemic |
|                         | DNEL | Long term Inhalation  | 208 mg/m <sup>3</sup>  | Workers            | Local    |
|                         | DNEL | Long term Inhalation  | 208 mg/m <sup>3</sup>  | Workers            | Systemic |
|                         | DNEL | Short term Dermal     | 1.5 mg/cm <sup>2</sup> | Workers            | Local    |
|                         | DNEL | Long term Dermal      | 1.5 mg/cm <sup>2</sup> | Workers            | Local    |



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

|                    |                         |                       |                         |                       |                    |       |
|--------------------|-------------------------|-----------------------|-------------------------|-----------------------|--------------------|-------|
| butyl methacrylate | DNEL                    | Long term Dermal      | 3 mg/kg bw/day          | General population    | Systemic           |       |
|                    | DNEL                    | Long term Dermal      | 5 mg/kg bw/day          | Workers               | Systemic           |       |
|                    | DNEL                    | Long term Inhalation  | 66.5 mg/m <sup>3</sup>  | General population    | Systemic           |       |
|                    | DNEL                    | Long term Inhalation  | 366.4 mg/m <sup>3</sup> | General population    | Local              |       |
|                    | DNEL                    | Long term Inhalation  | 409 mg/m <sup>3</sup>   | Workers               | Local              |       |
|                    | DNEL                    | Long term Inhalation  | 415.9 mg/m <sup>3</sup> | Workers               | Systemic           |       |
|                    | DNEL                    | Short term Dermal     | 1 %                     | General population    | Local              |       |
|                    | DNEL                    | Long term Dermal      | 1 %                     | General population    | Local              |       |
|                    | DNEL                    | Short term Dermal     | 1 %                     | Workers               | Local              |       |
|                    | DNEL                    | Long term Dermal      | 1 %                     | Workers               | Local              |       |
| toluene            | DNEL                    | Long term Inhalation  | 192 mg/m <sup>3</sup>   | Workers               | Local              |       |
|                    | DNEL                    | Long term Inhalation  | 192 mg/m <sup>3</sup>   | Workers               | Local              |       |
|                    | DNEL                    | Long term Inhalation  | 192 mg/m <sup>3</sup>   | Workers               | Systemic           |       |
|                    | DNEL                    | Long term Dermal      | 384 mg/kg bw/day        | Workers               | Systemic           |       |
|                    | DNEL                    | Short term Inhalation | 384 mg/m <sup>3</sup>   | Workers               | Local              |       |
|                    | DNEL                    | Short term Inhalation | 384 mg/m <sup>3</sup>   | Workers               | Systemic           |       |
|                    | DNEL                    | Long term Inhalation  | 50.3 ppm                | Workers               | Systemic           |       |
|                    | DNEL                    | Long term Oral        | 0.167 mg/kg bw/day      | General population    | Systemic           |       |
| Naphthenic acids   | DNEL                    | Long term Dermal      | 1.67 mg/kg bw/day       | General population    | Systemic           |       |
|                    | DNEL                    | Long term Inhalation  | 1.91 mg/m <sup>3</sup>  | General population    | Systemic           |       |
|                    | DNEL                    | Long term Dermal      | 3.33 mg/kg bw/day       | Workers               | Systemic           |       |
|                    | DNEL                    | Long term Inhalation  | 7.76 mg/m <sup>3</sup>  | Workers               | Systemic           |       |
|                    | DNEL                    | Short term Dermal     | 0.9 mg/cm <sup>2</sup>  | General population    | Local              |       |
|                    | DNEL                    | Short term Dermal     | 1.81 mg/cm <sup>2</sup> | Workers               | Local              |       |
|                    | 2-hydroxyethyl acrylate | DNEL                  | Long term Inhalation    | 1.2 mg/m <sup>3</sup> | General population | Local |
|                    |                         | DNEL                  | Long term Inhalation    | 2.4 mg/m <sup>3</sup> | Workers            | Local |

**PNECs**

## SECTION 8: Exposure controls/personal protection

| Product/ingredient name | Compartment Detail     | Value           | Method Detail |
|-------------------------|------------------------|-----------------|---------------|
| xylene                  | Fresh water            | 0.327 mg/l      | -             |
|                         | Marine water           | 0.327 mg/l      | -             |
|                         | Fresh water sediment   | 12.46 mg/kg     | -             |
|                         | Marine water sediment  | 12.46 mg/kg     | -             |
|                         | Soil                   | 2.31 mg/kg      | -             |
|                         | Sewage Treatment Plant | 6.58 mg/l       | -             |
|                         | n-butyl acetate        | Soil            | 0.09 mg/kg    |
| n-butyl acetate         | Fresh water            | 0.18 mg/l       | -             |
|                         | Sewage Treatment Plant | 35.6 mg/l       | -             |
|                         | Marine water           | 0.018 mg/l      | -             |
| ethylbenzene            | Sewage Treatment Plant | 9.6 mg/l        | -             |
|                         | Marine water           | 0.01 mg/l       | -             |
|                         | Fresh water            | 0.1 mg/l        | -             |
| isopentyl acetate       | Soil                   | 2.68 mg/kg      | -             |
|                         | Sediment               | 1.37 mg/kg      | -             |
|                         | Fresh water            | 0.011 mg/l      | -             |
|                         | Marine water           | 0.001 mg/l      | -             |
|                         | Fresh water sediment   | 0.335 mg/kg     | -             |
| isopentyl acetate       | Marine water sediment  | 0.034 mg/kg     | -             |
|                         | Sewage Treatment Plant | 30 mg/l         | -             |
|                         | Soil                   | 0.06 mg/kg dwt  | -             |
|                         | Fresh water            | 0.94 mg/l       | -             |
|                         | Fresh water sediment   | 10.2 mg/kg dwt  | -             |
|                         | Marine water           | 0.094 mg/l      | -             |
|                         | Marine water sediment  | 10.02 mg/kg dwt | -             |
| methyl methacrylate     | Soil                   | 1.48 mg/kg dwt  | -             |
|                         | Sewage Treatment Plant | 10 mg/l         | -             |
|                         | Fresh water            | 0.68 mg/l       | -             |
|                         | Sediment               | 16.39 mg/l      | -             |
|                         | toluene                |                 |               |

### 8.2 Exposure controls

**Appropriate engineering controls** : Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn.

#### 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. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Use safety eyewear designed to protect against splash of liquids.

#### Skin protection

#### Hand protection

## SECTION 8: Exposure controls/personal protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

- Gloves** : Duration / breakthrough time: <1 hour,  
 Glove material: NBR, nitrile rubber, material thickness as splash protection: at least 0.2 mm,  
 Glove material: NBR, nitrile rubber Material thickness for short-term contact: at least 0.5 mm  
 The recommendation for the type or types of glove to use when handling this product is based on information from the following source:  
 Expert judgment  
 The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
- Body protection** : Personnel should wear antistatic clothing made of natural fibres or of high-temperature-resistant synthetic fibres.
- 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** : If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators.
- Dry sanding, flame cutting and/or welding of the dry paint film will give rise to dust and/or hazardous fumes. Wet sanding/flattening should be used wherever possible. If exposure cannot be avoided by the provision of local exhaust ventilation, suitable respiratory protective equipment should be used.
- Environmental exposure controls** : Do not allow to enter drains or watercourses.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

**Physical state** : Liquid.

**Colour** : Red.

**Odour** : Not available.

**Odour threshold** : Not available.

**pH** : Not applicable.

**Melting point/freezing point** : Not applicable.

**Initial boiling point and boiling range** : 125 to 142°C

**Flash point** : Closed cup: 24°C

**Evaporation rate** : Not available.

**Flammability (solid, gas)** : Not available.

## SECTION 9: Physical and chemical properties

|   |   |
|---|---|
| <b>Lower and upper explosive (flammable) limits</b> | : Lower: 1%<br>Upper: 7.5%                                      |
| <b>Vapour pressure</b>                              | : 0.71 kPa  |
| <b>Vapour density</b>                               | : Not available.  |
| <b>Density</b>                                      | : 0.958 g/cm <sup>3</sup>                                       |
| <b>Solubility(ies)</b>                              | : Very slightly soluble in the following materials: cold water. |
| <b>Partition coefficient: n-octanol/ water</b>      | : Not applicable.   |
| <b>Auto-ignition temperature</b>                    | : 379°C   |
| <b>Decomposition temperature</b>                    | : Not applicable.   |
| <b>Viscosity</b>                                    | : Dynamic: 312 mPa·s<br>Kinematic: 326 mm <sup>2</sup> /s       |
| <b>Explosive properties</b>                         | : Not available.  |
| <b>Oxidising properties</b>                         | : Not available.  |
| <b>Weight volatiles</b>                             | : 64.9 % (w/w)  |
| <b>VOC content</b>                                  | : 64.4 % (w/w)  |

### 9.2 Other information

*room temperature (=20°C)*

## SECTION 10: Stability and reactivity

|  |  |
|--|--|
| <b>10.1 Reactivity</b>                         | : No specific test data related to reactivity available for this product or its ingredients.                                     |
| <b>10.2 Chemical stability</b>                 | : Stable under recommended storage and handling conditions (see Section 7).  |
| <b>10.3 Possibility of hazardous reactions</b> | : Under normal conditions of storage and use, hazardous reactions will not occur.  |
| <b>10.4 Conditions to avoid</b>                | : When exposed to high temperatures may produce hazardous decomposition products.  |
| <b>10.5 Incompatible materials</b>             | : Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids. |
| <b>10.6 Hazardous decomposition products</b>   | : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.        |

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains Fatty acids, linseed-oil, reaction products with 2-amino-2-(hydroxymethyl)-1,3-propanediol and formaldehyde, methyl methacrylate, butyl methacrylate, Naphthenic acids, 2-hydroxyethyl acrylate. May produce an allergic reaction.

#### Acute toxicity

| Product/ingredient name | Result                  | Species | Dose                    | Exposure |
|-------------------------|-------------------------|---------|-------------------------|----------|
| xylene                  | LC50 Inhalation Gas.    | Rat     | 5000 ppm                | 4 hours  |
|                         | LD50 Oral               | Rat     | 4300 mg/kg              | -        |
| n-butyl acetate         | LC50 Inhalation Vapour  | Rat     | 21.1 mg/l               | 4 hours  |
|                         | LD50 Dermal             | Rabbit  | >17600 mg/kg            | -        |
|                         | LD50 Oral               | Rat     | 10768 mg/kg             | -        |
| ethylbenzene            | LD50 Dermal             | Rabbit  | >5000 mg/kg             | -        |
|                         | LD50 Oral               | Rat     | 3500 mg/kg              | -        |
| isopentyl acetate       | LD50 Dermal             | Rabbit  | >5 g/kg                 | -        |
|                         | LD50 Oral               | Rat     | 16600 mg/kg             | -        |
| methyl methacrylate     | LC50 Inhalation Vapour  | Rat     | 78000 mg/m <sup>3</sup> | 4 hours  |
|                         | LD50 Dermal             | Rabbit  | >5 g/kg                 | -        |
|                         | LD50 Oral               | Rat     | 7872 mg/kg              | -        |
| butyl methacrylate      | LC50 Inhalation Vapour  | Rat     | 29 mg/l                 | 4 hours  |
|                         | LD50 Dermal             | Rat     | 17900 mg/kg             | -        |
|                         | LD50 Oral               | Rat     | 16 g/kg                 | -        |
| toluene                 | LC50 Inhalation Vapour  | Rat     | 49 g/m <sup>3</sup>     | 4 hours  |
|                         | LD50 Dermal             | Rat     | 5001 mg/kg              | -        |
|                         | LD50 Oral               | Rat     | 5001 mg/kg              | -        |
| Naphthenic acids        | TDL <sub>o</sub> Dermal | Rat     | 26.4 mg/kg              | -        |
|                         | LD50 Oral               | Rat     | 3 g/kg                  | -        |
| 2-hydroxyethyl acrylate | LD50 Dermal             | Rat     | 1001 mg/kg              | -        |
|                         | LD50 Oral               | Rat     | 548 mg/kg               | -        |

#### Acute toxicity estimates

## SECTION 11: Toxicological information

| Product/ingredient name | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapours) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|-------------------------|--------------|----------------|--------------------------|-----------------------------|-------------------------------------|
| Mixture                 | N/A          | 2976           | N/A                      | 24                          | N/A                                 |
| xylene                  | 4300         | 1100           | N/A                      | 11                          | N/A                                 |
| n-butyl acetate         | 10768        | N/A            | N/A                      | 21.1                        | N/A                                 |
| ethylbenzene            | 3500         | N/A            | N/A                      | 11                          | N/A                                 |
| isopentyl acetate       | 16600        | N/A            | N/A                      | N/A                         | N/A                                 |
| methyl methacrylate     | 7872         | N/A            | N/A                      | 78                          | N/A                                 |
| butyl methacrylate      | 16000        | 17900          | N/A                      | 29                          | N/A                                 |
| toluene                 | 5001         | 5001           | N/A                      | 49                          | N/A                                 |
| Naphthenic acids        | 3000         | N/A            | N/A                      | N/A                         | N/A                                 |
| 2-hydroxyethyl acrylate | 548          | 300            | N/A                      | N/A                         | N/A                                 |

### Irritation/Corrosion

| Product/ingredient name | Result                   | Species | Score | Exposure        | Observation |
|-------------------------|--------------------------|---------|-------|-----------------|-------------|
| xylene                  | Eyes - Mild irritant     | Rabbit  | -     | 87 mg           | -           |
|                         | Eyes - Severe irritant   | Rabbit  | -     | 24 hours 5 mg   | -           |
|                         | Skin - Mild irritant     | Rat     | -     | 8 hours 60 uL   | -           |
|                         | Skin - Moderate irritant | Rabbit  | -     | 24 hours 500 mg | -           |
| ethylbenzene            | Skin - Moderate irritant | Rabbit  | -     | 100 %           | -           |
|                         | Skin - Mild irritant     | Rabbit  | -     | 24 hours 15 mg  | -           |
| butyl methacrylate      | Skin - Mild irritant     | Rabbit  | -     | 500 uL          | -           |
|                         | toluene                  | Pig     | -     | 24 hours 250 uL | -           |
| 2-hydroxyethyl acrylate | Skin - Mild irritant     | Rabbit  | -     | 435 mg          | -           |
|                         | Skin - Mild irritant     | Rabbit  | -     | 24 hours 10 mg  | -           |
|                         | Skin - Moderate irritant | Rabbit  | -     | 500 mg          | -           |

### Sensitisation

| Product/ingredient name   | Route of exposure | Species | Result      |
|---|-------------------|---------|-------------|
| Fatty acids, linseed-oil, reaction products with 2-amino-2-(hydroxymethyl)-1,3-propanediol and formaldehyde | skin              | Mouse   | Sensitising |

### Mutagenicity

### Carcinogenicity

### Reproductive toxicity

### Teratogenicity

### Specific target organ toxicity (single exposure)

## SECTION 11: Toxicological information

| Product/ingredient name | Category   | Route of exposure | Target organs                |
|-------------------------|------------|-------------------|------------------------------|
| xylene                  | Category 3 | -                 | Respiratory tract irritation |
| n-butyl acetate         | Category 3 | -                 | Narcotic effects             |
| methyl methacrylate     | Category 3 | -                 | Respiratory tract irritation |
| butyl methacrylate      | Category 3 | -                 | Respiratory tract irritation |
| toluene                 | Category 3 | -                 | Narcotic effects             |

### Specific target organ toxicity (repeated exposure)

| Product/ingredient name | Category   | Route of exposure | Target organs                |
|-------------------------|------------|-------------------|------------------------------|
| ethylbenzene            | Category 2 | -                 | -                            |
| toluene                 | Category 2 | inhalation        | central nervous system (CNS) |

### Aspiration hazard

| Product/ingredient name | Result                         |
|-------------------------|--------------------------------|
| xylene                  | ASPIRATION HAZARD - Category 1 |
| ethylbenzene            | ASPIRATION HAZARD - Category 1 |
| toluene                 | ASPIRATION HAZARD - Category 1 |

**Other information** : Not available.

## SECTION 12: Ecological information

### 12.1 Toxicity

There are no data available on the mixture itself.  
Do not allow to enter drains or watercourses.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is not classified as hazardous to the environment, but contains substance(s) hazardous to the environment. See section 3 for details.

| Product/ingredient name   | Result                              | Species                             | Exposure |
|---|-------------------------------------|-------------------------------------|----------|
| xylene  | EC50 3.82 mg/l                      | Crustaceans - Penaeus monodon       | 48 hours |
| n-butyl acetate   | Acute LC50 13400 µg/l Fresh water   | Fish - Pimephales promelas          | 96 hours |
| ethylbenzene  | Acute LC50 185000 µg/l Marine water | Fish - Menidia beryllina            | 96 hours |
|   | Acute LC50 13.3 mg/l Marine water   | Crustaceans - Artemia sp. - Nauplii | 48 hours |
|   | Acute LC50 13.9 mg/l Fresh water    | Daphnia - Daphnia magna - Neonate   | 48 hours |
| Fatty acids, linseed-oil, reaction products with 2-amino-2-(hydroxymethyl)-1,3-propanediol and formaldehyde | EC50 15 mg/l Fresh water            | Algae                               | 72 hours |
|   | Acute EC50 4600 mg/l                | Daphnia                             | 48 hours |
|   | Acute LC50 1000000 mg/l             | Fish - Danio rerio                  | 96 hours |
|   | Chronic NOEC 12 mg/l                | Algae                               | 72 hours |
| methyl methacrylate   | Acute LC50 130000 µg/l Fresh water  | Fish - Pimephales promelas - Adult  | 96 hours |

## SECTION 12: Ecological information

|                         |   |   |                      |
|-------------------------|---|---|----------------------|
| butyl methacrylate      | Chronic NOEC 2.6 mg/l Fresh water                                     | Daphnia - Daphnia magna - Neonate   | 21 days              |
| toluene                 | Acute EC50 >433 ppm Marine water<br>Acute EC50 11600 µg/l Fresh water | Algae - Skeletonema costatum<br>Crustaceans - Gammarus pseudolimnaeus - Adult                     | 96 hours<br>48 hours |
|                         | Acute EC50 6000 µg/l Fresh water                                      | Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling)                               | 48 hours             |
|                         | Acute LC50 5500 µg/l Fresh water                                      | Fish - Oncorhynchus kisutch - Fry   | 96 hours             |
| 2-hydroxyethyl acrylate | Chronic NOEC 2 mg/l Fresh water<br>Acute LC50 4800 µg/l Fresh water   | Daphnia - Daphnia magna<br>Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling) | 21 days<br>96 hours  |

**Conclusion/Summary** : Not available.

### 12.2 Persistence and degradability

| Product/ingredient name | Test       | Result                   | Dose | Inoculum |
|-------------------------|------------|--------------------------|------|----------|
| xylylene                | OECD 301 F | 90 % - 28 days           | -    | -        |
| 2-hydroxyethyl acrylate | EU         | 78 % - Readily - 28 days | -    | -        |

**Conclusion/Summary** : Not available.

| Product/ingredient name   | Aquatic half-life | Photolysis | Biodegradability |
|---|-------------------|------------|------------------|
| xylylene  | -                 | -          | Readily          |
| Fatty acids, linseed-oil, reaction products with 2-amino-2-(hydroxymethyl)-1,3-propanediol and formaldehyde | -                 | -          | Not readily      |
| toluene   | -                 | -          | Readily          |
| 2-hydroxyethyl acrylate   | -                 | -          | Readily          |

### 12.3 Bioaccumulative potential

| Product/ingredient name | LogP <sub>ow</sub> | BCF         | Potential |
|-------------------------|--------------------|-------------|-----------|
| xylylene                | 3.12               | 8.1 to 25.9 | low       |
| n-butyl acetate         | 2.3                | -           | low       |
| ethylbenzene            | 3.6                | -           | low       |
| isopentyl acetate       | 2.25               | -           | low       |
| methyl methacrylate     | 1.38               | -           | low       |
| butyl methacrylate      | 2.99               | -           | low       |
| toluene                 | 2.73               | 90          | low       |
| 2-hydroxyethyl acrylate | -0.17              | -           | low       |

### 12.4 Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : 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.



## SECTION 12: Ecological information

**12.6 Other adverse effects** : No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

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).

### 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** : Yes.

**Disposal considerations** : Do not allow to enter drains or watercourses. Dispose of according to all federal, state and local applicable regulations. If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

#### European waste catalogue (EWC)

The European Waste Catalogue classification of this product, when disposed of as waste, is:

| Waste code | Waste designation   |
|------------|---|
| 08 01 11*  | waste paint and varnish containing organic solvents or other hazardous substances |

#### 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.

**Disposal considerations** : Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned. Dispose of containers contaminated by the product in accordance with local or national legal provisions.

| Type of packaging | European waste catalogue (EWC)  |
|-------------------|---|
| CEPE Guidelines   | 15 01 10*<br>packaging containing residues of or contaminated by hazardous substances |

**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. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. 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                  | UN1263   | UN1263   | UN1263  | UN1263   |
| 14.2 UN proper shipping name    | PAINT  | PAINT  | PAINT   | PAINT  |
| 14.3 Transport hazard class(es) | 3<br> | 3<br> | 3<br> | 3<br> |
| 14.4 Packing group              | III  | III  | III   | III  |
| 14.5 Environmental hazards      | No.  | Yes.   | No.   | No.  |

### Additional information

ADR/RID : **Tunnel code** (D/E)

ADN : The product is only regulated as an environmentally hazardous substance when transported in tank vessels.

Marine pollutant : Not available.

14.6 Special precautions for user : **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 applicable.

The actual shipping description for this product may vary based several factors including, but not limited to, the volume of material, size of the container, mode of transport and use of exemptions or exceptions found in the applicable regulations. The information provided in Section 14 is one possible shipping description for this product. Consult your shipping specialist or supplier for appropriate assignment information.

## SECTION 15: Regulatory information

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

#### EU Regulation (EC) No. 1907/2006 (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.

## SECTION 15: Regulatory information

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

### Other EU regulations

#### Seveso Directive

This product may add to the calculation for determining whether a site is within the scope of the Seveso Directive on major accident hazards.

### National regulations

**Industrial use** : The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

**15.2 Chemical safety assessment** : No Chemical Safety Assessment has been carried out.

## SECTION 16: Other information

**CEPE code** : 1

Indicates information that has changed from previously issued version.

**Abbreviations and acronyms** : ATE = Acute Toxicity Estimate  
 CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
 DMEL = Derived Minimal Effect Level  
 DNEL = Derived No Effect Level  
 EUH statement = CLP-specific Hazard statement  
 N/A = Not available  
 PBT = Persistent, Bioaccumulative and Toxic  
 PNEC = Predicted No Effect Concentration  
 RRN = REACH Registration Number  
 vPvB = Very Persistent and Very Bioaccumulative

### **Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]**

| Classification      | Justification         |
|---------------------|-----------------------|
| Flam. Liq. 3, H226  | On basis of test data |
| Skin Irrit. 2, H315 | Calculation method    |
| Eye Irrit. 2, H319  | Calculation method    |
| STOT SE 3, H335     | Calculation method    |

### **Full text of abbreviated H statements**

**SECTION 16: Other information**

|        |  |
|--------|--|
| H225   | Highly flammable liquid and vapour.                                |
| H226   | Flammable liquid and vapour.                                       |
| H302   | Harmful if swallowed.  |
| H304   | May be fatal if swallowed and enters airways.                      |
| H311   | Toxic in contact with skin.  |
| H312   | Harmful in contact with skin.                                      |
| H314   | Causes severe skin burns and eye damage.                           |
| H315   | Causes skin irritation.  |
| H317   | May cause an allergic skin reaction.                               |
| H318   | Causes serious eye damage.   |
| H319   | Causes serious eye irritation.                                     |
| H332   | Harmful if inhaled.  |
| H335   | May cause respiratory irritation.                                  |
| H336   | May cause drowsiness or dizziness.                                 |
| H361d  | Suspected of damaging the unborn child.                            |
| H373   | May cause damage to organs through prolonged or repeated exposure. |
| H400   | Very toxic to aquatic life.  |
| H412   | Harmful to aquatic life with long lasting effects.                 |
| EUH066 | Repeated exposure may cause skin dryness or cracking.              |

**Full text of classifications [CLP/GHS]**

|                   |   |
|-------------------|---|
| Acute Tox. 3      | ACUTE TOXICITY - Category 3                                     |
| Acute Tox. 4      | ACUTE TOXICITY - Category 4                                     |
| Aquatic Acute 1   | SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1                  |
| Aquatic Chronic 3 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3                 |
| Asp. Tox. 1       | ASPIRATION HAZARD - Category 1                                  |
| 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                                  |
| Repr. 2           | REPRODUCTIVE TOXICITY - Category 2                              |
| Skin Corr. 1B     | SKIN CORROSION/IRRITATION - Category 1B                         |
| Skin Irrit. 2     | SKIN CORROSION/IRRITATION - Category 2                          |
| Skin Sens. 1      | SKIN SENSITISATION - Category 1                                 |
| 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**

**This product is intended for industrial use only.**

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## **SECTION 16: Other information**

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