

### SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

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

1.1 Product identifier

Product identifier : REPH/1.5

Product name : RAPTOR ANTI-CORROSIVE EPOXY PRIMER HARDENER

Product type : Liquid.

Other means of

: 1250012199; 1250012200; REPH/500

identification

Date of issue/ Date of

: 4 October 2024

revision

Version : 1.02

Date of previous issue : 9 September 2024

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

U-POL Limited Denington Road

Wellingborough, Northamptonshire, NN8 2QH

+44 (0) 1933 230310

sds-competence@axalta.com

e-mail address of person : sds-competence@axalta.com

responsible for this SDS

U-POL Netherlands B.V. Hoorgoorddreef 15

Amsterdam, Netherlands 1101BA

+31 20 240 2216

sds-competence@axalta.com

#### 1.4 Emergency telephone number

<u>Supplier</u>

**Telephone number** : +(44)-870-8200418

Hours of operation :

### **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to UK CLP/GHS

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### **SECTION 2: Hazards identification**

Flam. Liq. 3, H226 Skin Irrit, 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 **STOT SE 3, H335 STOT SE 3, H336 STOT RE 2, H373** 

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

Ingredients of unknown

Aquatic Chronic 2, H411

toxicity

: 3.6 percent of the mixture consists of component(s) of unknown acute dermal

toxicity

8.9 percent of the mixture consists of component(s) of unknown acute inhalation

toxicity

Ingredients of unknown

ecotoxicity

Contains 2.5% 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

**Contains** : Reaction mass of ethylbenzene and xylene

butan-1-ol

Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl

ether and triethylenetetramine

3-aminomethyl-3,5,5-trimethylcyclohexylamine

m-phenylenebis(methylamine)

Phenol, styrenated

: H226 - Flammable liquid and vapour. **Hazard statements** 

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction. H318 - Causes serious eye damage. H335 - May cause respiratory irritation. H336 - May cause drowsiness or dizziness.

H373 - May cause damage to organs through prolonged or repeated exposure.

H411 - Toxic to aquatic life with long lasting effects.

**Precautionary statements** 

Prevention : P280 - Wear protective gloves. Wear eve or face protection.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P273 - Avoid release to the environment.

P260 - Do not breathe vapour.

: P305 + P351 + P338, P310 - IF IN EYES: Rinse cautiously with water for several Response

minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER or doctor.

: Not applicable. **Storage** Disposal : Not applicable. Supplemental label

elements

: Not applicable.

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### **SECTION 2: Hazards identification**

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   | Туре    |
|---|---|-----------|--|---------|
| Reaction mass of ethylbenzene and xylene  | REACH #:<br>01-2119539452-40<br>EC: 905-588-0   | ≥25 - ≤50 | 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<br>STOT RE 2, H373<br>Asp. Tox. 1, H304<br>Aquatic Chronic 3,<br>H412 | [1]     |
| butan-1-ol  | REACH #:<br>01-2119484630-38<br>EC: 200-751-6<br>CAS: 71-36-3<br>Index: 603-004-00-6  | ≥25 - ≤34 | Flam. Liq. 3, H226<br>Acute Tox. 4, H302<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>STOT SE 3, H335<br>STOT SE 3, H336  | [1] [2] |
| 1-methoxy-2-propanol  | REACH #:<br>01-2119457435-35<br>EC: 203-539-1<br>CAS: 107-98-2                        | ≥10 - ≤25 | Flam. Liq. 3, H226<br>STOT SE 3, H336  | [1] [2] |
| n-butyl acetate   | REACH #:<br>01-2119485493-29<br>EC: 204-658-1<br>CAS: 123-86-4                        | ≤10       | Flam. Liq. 3, H226<br>STOT SE 3, H336<br>EUH066  | [1] [2] |
| Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine | EC: 606-078-8<br>CAS: 186321-96-0   | ≤10       | Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)  | [1]     |
| benzyl alcohol  | REACH #:<br>01-2119492630-38<br>EC: 202-859-9<br>CAS: 100-51-6<br>Index: 603-057-00-5 | ≤4.7      | Acute Tox. 4, H302<br>Acute Tox. 4, H332<br>Eye Irrit. 2, H319   | [1]     |
| 2,4,6-tris(dimethylaminomethyl) phenol  | REACH #:<br>01-2119560597-27<br>EC: 202-013-9<br>CAS: 90-72-2                         | ≤2.6      | Skin Corr. 1C, H314<br>Eye Dam. 1, H318  | [1]     |
| 3-aminomethyl-<br>3,5,5-trimethylcyclohexylamine  | REACH #:<br>01-2119514687-32<br>EC: 220-666-8   | ≤2.3      | Acute Tox. 4, H302<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318  | [1]     |

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

|                             | CAS: 2855-13-2<br>Index: 612-067-00-9                           |    | Skin Sens. 1A, H317   |     |
|-----------------------------|---|----|---|-----|
| m-phenylenebis(methylamine) | REACH #:<br>01-2119480150-50<br>EC: 216-032-5<br>CAS: 1477-55-0 | <1 | Acute Tox. 4, H302 Acute Tox. 4, H332 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1B, H317 Aquatic Chronic 3, H412 EUH071 | [1] |
| Phenol, styrenated          | EC: 262-975-0<br>CAS: 61788-44-1                                | <1 | Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Aquatic Chronic 2,<br>H411   | [1] |
|                             |   |    | See Section 16 for<br>the full text of the H<br>statements declared<br>above.   |     |

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

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

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

### 4.1 Description of first aid measures

Eye contact

: Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician.

Inhalation

: Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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. 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. 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.

Skin contact

: Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician. 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.

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

#### **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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

#### Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:

> watering redness

Inhalation : Adverse symptoms may include the following:

respiratory tract irritation

coughing

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

Skin contact : Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

Ingestion : Adverse symptoms may include the following:

stomach pains

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

In case of inhalation of decomposition products in a fire, symptoms may be delayed. Notes to physician

The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments : No specific treatment.

# SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing

media

: Recommended: alcohol-resistant foam, CO2, 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.

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### 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.

### 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.

#### Seveso Directive - Reporting thresholds

#### Danger criteria

|     | Notification and MAPP threshold | Safety report threshold |
|-----|---------------------------------|-------------------------|
| P5c | 5000 tonne                      | 50000 tonne             |
| E2  | 200 tonne                       | 500 tonne               |

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### **SECTION 7: Handling and storage**

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

| Product/ingredient name | Exposure limit values   |
|-------------------------|---|
| butan-1-ol              | EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed through skin.  STEL 15 minutes: 154 mg/m³.  STEL 15 minutes: 50 ppm.  |
| 1-methoxypropan-2-ol    | EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed through skin.  STEL 15 minutes: 560 mg/m³.  STEL 15 minutes: 150 ppm.  TWA 8 hours: 375 mg/m³.  TWA 8 hours: 100 ppm. |
| n-butyl acetate         | EH40/2005 WELs (United Kingdom (UK), 1/2020) STEL 15 minutes: 966 mg/m³. STEL 15 minutes: 200 ppm. TWA 8 hours: 724 mg/m³. TWA 8 hours: 150 ppm.                            |

### **Biological exposure indices**

No exposure indices known.

Recommended monitoring procedures

: Reference should be made to monitoring standards, such as the following: British Standard BS EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) British Standard BS EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) British Standard BS EN 482 (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  |
|--|------|-------------------------|-------------------------|--------------------|----------|
| Reaction mass of ethylbenzene and xylene | DNEL | Long term Dermal        | 212 mg/kg<br>bw/day     | Workers            | Systemic |
|  | DNEL | Long term<br>Inhalation | 221 mg/m <sup>3</sup>   | Workers            | Systemic |
| butan-1-ol                               | DNEL | Long term Oral          | 1.5625 mg/<br>kg bw/day | General population | Systemic |
|  | DNEL | Long term Dermal        | 3.125 mg/<br>kg bw/day  | General population | Systemic |
|  | DNEL | Long term<br>Inhalation | 55.357 mg/              |                    | Systemic |
|  | DNEL | Long term               | 155 mg/m <sup>3</sup>   | General population | Local    |
|  | DNEL | Long term               | 310 mg/m <sup>3</sup>   | Workers            | Local    |
| 1-methoxy-2-propanol                     | DNEL | Long term<br>Inhalation | 100 ppm                 | Workers            | Systemic |
|  | DNEL | Long term Oral          | 33 mg/kg<br>bw/day      | General population | Systemic |
|  | DNEL | Long term<br>Inhalation | 43.9 mg/m³              |                    | Systemic |

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

|   |                                       | DNEL          | Long term Dermal  | 78 mg/kg               | General         | Systemic                                |
|---|---------------------------------------|---------------|-------------------|------------------------|-----------------|---|
|   |                                       |               |                   | bw/day                 | population      |   |
|   |                                       | DNEL          | Long term Dermal  | 183 mg/kg              | Workers         | Systemic                                |
|   |                                       |               |                   | bw/day                 |                 |   |
|   |                                       | DNEL          | Long term         | 369 mg/m <sup>3</sup>  | Workers         | Systemic                                |
|   |                                       |               | Inhalation        |                        |                 |   |
|   |                                       | DNEL          | Short term        | 553.5 mg/              | Workers         | Local                                   |
|   |                                       |               | Inhalation        | m³                     |                 |   |
|   |                                       | DNEL          | Short term        | 553.5 mg/              | Workers         | Systemic                                |
|   |                                       |               | Inhalation        | m³                     |                 | · ·                                     |
|   | n-butyl acetate                       | DNEL          | Short term Dermal | 11 mg/kg               | Workers         | Systemic                                |
|   | ,                                     |               |                   | bw/day                 |                 |   |
|   |                                       | DNEL          | Long term Oral    | 2 mg/kg                | General         | Systemic                                |
|   |                                       |               |                   | bw/day                 | population      | · ·                                     |
|   |                                       | DNEL          | Short term Oral   | 2 mg/kg                | General         | Systemic                                |
|   |                                       |               |                   | bw/day                 | population      | ,                                       |
|   |                                       | DNEL          | Long term Dermal  | 3.4 mg/kg              | General         | Systemic                                |
|   |                                       |               | 3                 | bw/day                 | population      | ,                                       |
|   |                                       | DNEL          | Short term Dermal | 6 mg/kg                | General         | Systemic                                |
|   |                                       | <b>-</b>      |                   | bw/day                 | population      | ,                                       |
|   |                                       | DNEL          | Long term Dermal  | 7 mg/kg                | Workers         | Systemic                                |
|   |                                       |               |                   | bw/day                 | · =:::=:=       | ,                                       |
|   |                                       | DNEL          | Short term Dermal | 11 mg/kg               | Workers         | Systemic                                |
|   |                                       |               |                   | bw/day                 | · =:::=:=       | ,                                       |
|   |                                       | DNEL          | Long term         | 12 mg/m <sup>3</sup>   | General         | Systemic                                |
|   |                                       | ,             | Inhalation        | g,                     | population      | - ,                                     |
|   |                                       | DNEL          | Long term         | 35.7 mg/m <sup>3</sup> | General         | Local                                   |
|   |                                       | D.1122        | Inhalation        | 00 mg/                 | population      | 20001                                   |
|   |                                       | DNEL          | Long term         | 48 mg/m³               | Workers         | Systemic                                |
|   |                                       | DIVLL         | Inhalation        | 10 1119/111            | VV OINOIO       | Cyclonic                                |
|   |                                       | DNEL          | Short term        | 300 mg/m <sup>3</sup>  | General         | Local                                   |
|   |                                       |               | Inhalation        | 000 mg/m               | population      |   |
|   |                                       | DNEL          | Short term        | 300 mg/m <sup>3</sup>  | General         | Systemic                                |
|   |                                       | DIVLL         | Inhalation        | ooo mg/m               | population      | Cyclonic                                |
|   |                                       | DNEL          | Long term         | 300 mg/m <sup>3</sup>  | Workers         | Local                                   |
|   |                                       | D.122         | Inhalation        | 000 mg/m               | TT GINGIG       | 20001                                   |
|   |                                       | DNEL          | Short term        | 600 mg/m <sup>3</sup>  | Workers         | Local                                   |
|   |                                       |               | Inhalation        | 000 mg/m               |                 |   |
|   |                                       | DNEL          | Short term        | 600 mg/m <sup>3</sup>  | Workers         | Systemic                                |
|   |                                       |               | Inhalation        | 000 mg/m               |                 | - y - t - t - t - t - t - t - t - t - t |
|   | Fatty acids, tall-oil, reaction       | DNEL          | Long term Oral    | 0.5 mg/kg              | General         | Systemic                                |
|   | products with bisphenol A,            | D.122         | Long tonn oran    | bw/day                 | population      | C you con mo                            |
|   | epichlorohydrin, glycidyl tolyl ether |               |                   | 2 day                  | L 260'00'0'     |   |
|   | and triethylenetetramine              |               |                   |                        |                 |   |
|   |                                       | DNEL          | Long term Dermal  | 0.5 mg/kg              | General         | Systemic                                |
|   |                                       |               |                   | bw/day                 | population      | ,                                       |
|   |                                       | DNEL          | Long term Dermal  | 1 mg/kg                | Workers         | Systemic                                |
|   |                                       |               | 20ai              | bw/day                 | · = : : : = : = | ,                                       |
|   |                                       | DNEL          | Long term         | 1.74 mg/m <sup>3</sup> | General         | Systemic                                |
|   |                                       |               | Inhalation        |                        | population      | ,                                       |
|   |                                       | DNEL          | Long term         | 7.05 mg/m <sup>3</sup> | Workers         | Systemic                                |
|   |                                       |               | Inhalation        |                        | · =:::=:=       | ,                                       |
|   | benzyl alcohol                        | DNEL          | Long term Oral    | 4 mg/kg                | General         | Systemic                                |
|   | ,                                     | - · · <b></b> |                   | bw/day                 | population      | ,                                       |
|   |                                       | DNEL          | Long term Dermal  | 4 mg/kg                | General         | Systemic                                |
|   |                                       |               |                   | bw/day                 | population      | ,                                       |
|   |                                       | DNEL          | Long term         | 5.4 mg/m <sup>3</sup>  | General         | Systemic                                |
|   |                                       |               | Inhalation        | J                      | population      |   |
|   |                                       | DNEL          | Long term Dermal  | 8 mg/kg                | Workers         | Systemic                                |
|   |                                       | <b></b>       | J 5               | bw/day                 | ··- =           | ,                                       |
|   |                                       | DNEL          | Short term Oral   | 20 mg/kg               | General         | Systemic                                |
|   |                                       | <b>-</b>      |                   | bw/day                 | population      | ,                                       |
|   |                                       | DNEL          | Short term Dermal | 20 mg/kg               | General         | Systemic                                |
|   |                                       | ·             |                   | bw/day                 | population      |   |
| _ |                                       |               | <u> </u>          |                        | <u> </u>        |   |
| _ |                                       |               | •                 |                        |                 |   |

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# SECTION 8: Exposure controls/personal protection

| <u> </u>                        | •      |                          |                            | -                                       |           |
|---------------------------------|--------|--------------------------|----------------------------|---|-----------|
|                                 | DNEL   | Long term<br>Inhalation  | 22 mg/m³                   | Workers                                 | Systemic  |
|                                 | DNEL   | Short term               | 27 mg/m³                   | General                                 | Systemic  |
|                                 |        | Inhalation               |                            | population                              | _         |
|                                 | DNEL   | Short term Dermal        | 40 mg/kg<br>bw/day         | Workers                                 | Systemic  |
|                                 | DNEL   | Short term<br>Inhalation | 110 mg/m <sup>3</sup>      | Workers                                 | Systemic  |
| 2,4,6-tris(dimethylaminomethyl) | DNEL   | Long term Oral           | 0.075 mg/                  | General                                 | Systemic  |
| phenol                          | DIVLL  | Long torm Oral           | kg bw/day                  | population                              | Cystonno  |
| priction                        | DNEL   | Short term Dermal        | 0.075 mg/                  | General                                 | Systemic  |
|                                 | DIVLL  | Onort term Dermai        | kg bw/day                  | population                              | Cysternic |
|                                 | DNEL   | Long term Dermal         | 0.075 mg/                  | General                                 | Systemic  |
|                                 | DINLL  | Long term Dermai         | kg bw/day                  | population                              | Oysternic |
|                                 | DNEL   | Short term               | 0.13 mg/m <sup>3</sup>     |   | Systemic  |
|                                 | DINEL  | Inhalation               | 0.13 mg/m                  | population                              | Systernic |
|                                 | DNEL   |                          | 0 12 mg/m³                 |   | Systemia  |
|                                 | DINEL  | Long term<br>Inhalation  | 0.13 mg/m <sup>3</sup>     | population                              | Systemic  |
|                                 | DNE    |                          | 0.15 mg/                   |   | Cyrotomio |
|                                 | DNEL   | Long term Dermal         | 0.15 mg/<br>kg bw/day      | Workers                                 | Systemic  |
|                                 | DNEL   | Long term                | 0.53 mg/m <sup>3</sup>     | Workers                                 | Systemic  |
|                                 |        | Inhalation               |                            | l                                       |           |
|                                 | DNEL   | Short term Dermal        | 0.6 mg/kg                  | Workers                                 | Systemic  |
|                                 | DNEL   | Short term               | bw/day<br>2.1 mg/m³        | Workers                                 | Systemic  |
|                                 | DINEL  | Inhalation               | ے. ۱ ۱۱۱۹/۱۱۱ <sup>۲</sup> | AAOIVEIS                                | Systernic |
| 3-aminomethyl-                  | DNEL   | Short term               | 0.073 mg/                  | Workers                                 | Local     |
| 3,5,5-trimethylcyclohexylamine  | DIVLL  | Inhalation               | m <sup>3</sup>             | VVOIRGIS                                | Local     |
|                                 | DNEL   | Long term                | 0.073 mg/                  | Workers                                 | Local     |
|                                 | DIVLL  | Inhalation               | m <sup>3</sup>             | VVOIRGIS                                | Local     |
|                                 | DNEL   | Long term Oral           | 0.3 mg/kg                  | General                                 | Systemic  |
|                                 | DIVEL  | Long tom Oran            | bw/day                     | population                              | Cyclonia  |
|                                 | DNEL   | Short term Oral          | 0.3 mg/kg                  | General                                 | Systemic  |
|                                 | DIVLL  | Chort term Oral          | bw/day                     | population                              | Cystollio |
| m-phenylenebis(methylamine)     | DNEL   | Long term                | 0.21 ppm                   | Workers                                 | Systemic  |
|                                 | DIVLE  | Inhalation               | 0.2 i ppiii                | VVOIRCIS                                | Cystollio |
|                                 | DNEL   | Long term                | 0.2 mg/m <sup>3</sup>      | Workers                                 | Local     |
|                                 | D. 1LL | Inhalation               | J.2 1119/111               | .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |           |
|                                 | DNEL   | Long term Dermal         | 0.33 mg/                   | Workers                                 | Systemic  |
|                                 | DIVLL  | Long tomi Domial         | kg bw/day                  | *************************************** | Cyclonno  |
|                                 | DNEL   | Long term                | 1.2 mg/m <sup>3</sup>      | Workers                                 | Systemic  |
|                                 | DIVEL  | Inhalation               | 1.2 1119/111               | *************************************** | Cyclonno  |
| Phenol, styrenated              | DNEL   | Long term Oral           | 0.75 mg/                   | General                                 | Systemic  |
| i nonoi, otyronatod             | DIVEL  | Long tom Oran            | kg bw/day                  | population                              | Cyclonia  |
|                                 | DNEL   | Long term Dermal         | 0.75 mg/                   | General                                 | Systemic  |
|                                 | DIVLL  | Long tomi Domial         | kg bw/day                  | population                              | Cyclonia  |
|                                 | DNEL   | Long term                | 1.31 mg/m <sup>3</sup>     |   | Systemic  |
|                                 | DIVLL  | Inhalation               | 1.01 1119/111              | population                              | Cystollio |
|                                 | DNEL   | Long term Dermal         | 2.1 mg/kg                  | Workers                                 | Systemic  |
|                                 | DINCL  | Long term Dennal         | bw/day                     | VVOINGIS                                | Cystollio |
|                                 | DNEL   | Long term                | 7.4 mg/m <sup>3</sup>      | Workers                                 | Systemic  |
|                                 | DIVEL  | Inhalation               | / . <del>-</del> mg/m      | *************************************** | Cyclonia  |
|                                 |        | aaaaa                    |                            |   |           |

### **PNECs**

| Product/ingredient name                  | Compartment Detail    | Value           | Method Detail |
|--|-----------------------|-----------------|---------------|
| Reaction mass of ethylbenzene and xylene | Fresh water           | 0.327 mg/l      | -             |
| ,  | Marine water          | 0.327 mg/l      | -             |
|  | Sewage Treatment      | 6.58 mg/l       | -             |
|  | Plant                 |                 |               |
|  | Fresh water sediment  | 12.46 mg/kg dwt | -             |
|  | Marine water sediment | 12.46 mg/kg dwt | -             |
|  | Soil                  | 2.31 mg/kg      | -             |
| butan-1-ol                               | Fresh water           | 0.082 mg/l      | -             |
|  | Marine water          | 0.0082 mg/l     | -             |

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

|                                | Fresh water sediment  | 0.324 mg/kg dwt  | -                  |
|--------------------------------|-----------------------|------------------|--------------------|
|                                | Marine water sediment | 0.0324 mg/kg dwt | -                  |
|                                | Soil                  | 0.017 mg/kg dwt  | -                  |
|                                | Sewage Treatment      | 2476 mg/l        | -                  |
|                                | Plant                 |                  |                    |
| 1-methoxy-2-propanol           | Marine water          | 1 mg/l           | -                  |
|                                | Fresh water           | 10 mg/l          | -                  |
|                                | Fresh water sediment  | 52.3 mg/kg       | -                  |
|                                | Marine water sediment | 5.2 mg/kg        | -                  |
|                                | Sewage Treatment      | 100 mg/l         | -                  |
|                                | Plant                 |                  |                    |
|                                | Soil                  | 4.59 mg/kg       | -                  |
| n-butyl acetate                | Soil                  | 0.09 mg/kg       | -                  |
|                                | Fresh water           | 0.18 mg/l        | -                  |
|                                | Sewage Treatment      | 35.6 mg/l        | -                  |
|                                | Plant                 |                  |                    |
|                                | Marine water          | 0.018 mg/l       | -                  |
|                                | Fresh water sediment  | 0.981 mg/kg      | -                  |
|                                | Marine water sediment | 0.098 mg/kg      | -                  |
| benzyl alcohol                 | Fresh water           | 1 mg/l           | -                  |
|                                | Marine water          | 0.1 mg/l         | Assessment Factors |
|                                | Sewage Treatment      | 39 mg/l          | -                  |
|                                | Plant                 |                  |                    |
|                                | Fresh water sediment  | 5.27 mg/kg       | -                  |
|                                | Marine water sediment | 0.527 mg/kg      | -                  |
|                                | Soil                  | 0.456 mg/kg      | -                  |
| 3-aminomethyl-                 | Fresh water           | 0.06 mg/l        | -                  |
| 3,5,5-trimethylcyclohexylamine |                       |                  |                    |
|                                | Marine water sediment | 0.578 mg/kg      | -                  |
|                                | Marine water          | 0.006 mg/l       | -                  |
|                                | Sewage Treatment      | 3.18 mg/l        | -                  |
|                                | Plant                 |                  |                    |
|                                | Soil                  | 1.121 mg/kg      | -                  |
|                                | Fresh water sediment  | 5.784 mg/kg      | -                  |
|                                | 1                     |                  | <u> </u>           |

### 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. 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

: Use safety eyewear designed to protect against splash of liquids.

#### **Skin protection**

#### Hand 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.

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### SECTION 8: Exposure controls/personal protection

Gloves

Duration / breakthrough time: <1 hour,

Glove material: NBR, nitrile rubber, material thickness as splash protection: at least

0.2 mm. (EN374)

Glove material: NBR, nitrile rubber Material thickness for short-term contact: at least

0.5 mm, (EN374)

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.

If workers are exposed to concentrations above the exposure limit, they must use Respiratory protection

appropriate, certified respirators.

**Environmental exposure** 

controls

: Do not allow to enter drains or watercourses.

# 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 : Transparent. Odour : Not available. . Not available. **Odour threshold** 

Melting point/freezing point

Initial boiling point and

boiling range

: Technically not possible to measure

: 117 to 142°C (242.6 to 287.6°F)

Flammability (solid, gas) Upper/lower flammability or

explosive limits

: Not available. : Lower: 1%

Upper: 13.7%

Lower and upper explosive

(flammable) limits

: Not available.

: Closed cup: 24°C (75.2°F) Flash point

**Auto-ignition temperature** : 270°C (518°F) **Decomposition temperature** : Not applicable. pН : Not applicable.

Dynamic (room temperature): Not available. Viscosity

Kinematic (room temperature): Not available.

Kinematic (40°C): Not available.

Solubility in water : Not available.

Miscible with water Yes.

Partition coefficient: n-octanol/ : Not applicable.

water

Vapour pressure : 0.89 kPa (6.7 mm Hg)

Relative density : Not available. Density : 0.879 g/cm<sup>3</sup> Vapour density : Not available.

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### SECTION 9: Physical and chemical properties

Explosive properties : Not available.

Oxidising properties : Not available.

Weight volatiles : 87.6 % (w/w)

**VOC content** : 84 % (w/w) (2010/75/EU)

#### 9.2 Other information

### 9.2.1 Information with regard to physical hazard classes

Further information Not available.

### 9.2.2 Other safety characteristics

Miscible with water : Yes.

Further information Not available.

room temperature (=20°C)

### **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** : Stable under recommended storage and handling conditions (see Section 7).

10.3 Possibility of hazardous reactions

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

10.4 Conditions to avoid

: When exposed to high temperatures may produce hazardous decomposition

products.

10.5 Incompatible materials

: Keep away from the following materials to prevent strong exothermic reactions:

oxidising agents, strong alkalis, strong acids.

10.6 Hazardous decomposition products

: Decomposition products may include the following materials: carbon monoxide,

carbon dioxide, smoke, oxides of nitrogen.

Not applicable

# **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, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine, 3-aminomethyl-3,5,5-trimethylcyclohexylamine, m-phenylenebis(methylamine), Phenol,

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# **SECTION 11: Toxicological information**

styrenated. May produce an allergic reaction.

### **Acute toxicity**

| Product/ingredient name        | Result                    | Species    | Dose                    | Exposure |
|--------------------------------|---------------------------|------------|-------------------------|----------|
| Reaction mass of               | LC50 Inhalation Vapour    | Rat        | 6350 to 6700            | 4 hours  |
| ethylbenzene and xylene        | ·                         |            | ppm                     |          |
|                                | LD50 Dermal               | Rabbit     | 121236 mg/kg            | -        |
|                                | LD50 Oral                 | Rat        | 3523 to 4000            | -        |
|                                |                           |            | mg/kg                   |          |
| butan-1-ol                     | LC50 Inhalation Vapour    | Rat        | 24000 mg/m <sup>3</sup> | 4 hours  |
|                                | LD50 Dermal               | Rabbit     | 3400 mg/kg              | -        |
|                                | LD50 Oral                 | Rat        | 790 mg/kg               | -        |
| 1-methoxypropan-2-ol           | LD50 Dermal               | Rabbit     | 13 g/kg                 | -        |
|                                | LD50 Oral                 | Rat        | 6600 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             | -        |
| benzyl alcohol                 | LC50 Inhalation Dusts and | Rat - Male | 4178 mg/m <sup>3</sup>  | 4 hours  |
|                                | mists                     |            |                         |          |
|                                | LD50 Oral                 | Rat        | 1230 mg/kg              | -        |
| 2,4,6-tris                     | LD50 Dermal               | Rat        | 1280 mg/kg              | -        |
| (dimethylaminomethyl)          |                           |            |                         |          |
| phenol                         |                           |            |                         |          |
|                                | LD50 Oral                 | Rat        | 1200 mg/kg              | -        |
| 3-aminomethyl-                 | LD50 Oral                 | Rat - Male | 1030 mg/kg              | -        |
| 3,5,5-trimethylcyclohexylamine |                           |            |                         |          |
| m-phenylenebis                 | LC50 Inhalation Dusts and | Rat        | 1.34 mg/l               | 4 hours  |
| (methylamine)                  | mists                     |            |                         |          |
|                                | LD50 Dermal               | Rabbit     | 2 g/kg                  | -        |
|                                | LD50 Oral                 | Rat        | 930 mg/kg               | -        |
| Phenol, styrenated             | LD50 Dermal               | Rabbit     | >5010 mg/kg             | -        |
|                                | LD50 Oral                 | Rat        | 2500 mg/kg              | -        |

### **Acute toxicity estimates**

| Product/ingredient name                      | Oral (mg/<br>kg) | Dermal<br>(mg/kg) | Inhalation<br>(gases)<br>(ppm) | Inhalation<br>(vapours)<br>(mg/l) | Inhalation<br>(dusts<br>and mists)<br>(mg/l) |
|--|------------------|-------------------|--------------------------------|-----------------------------------|--|
| mixture                                      | 2653.8           | 3005.5            | N/A                            | 30.1                              | 116.1  |
| Reaction mass of ethylbenzene and xylene     | N/A              | 1100              | N/A                            | 11                                | N/A  |
| butan-1-ol                                   | 790              | 3400              | N/A                            | 24                                | N/A  |
| 1-methoxy-2-propanol                         | 6600             | 13000             | N/A                            | N/A                               | N/A  |
| n-butyl acetate                              | 10768            | N/A               | N/A                            | 21.1                              | N/A  |
| benzyl alcohol                               | 1230             | N/A               | N/A                            | N/A                               | 4.178  |
| 3-aminomethyl-3,5,5-trimethylcyclohexylamine | 1030             | N/A               | N/A                            | N/A                               | N/A  |
| m-phenylenebis(methylamine)                  | 930              | N/A               | N/A                            | N/A                               | 1.34   |
| Phenol, styrenated                           | 2500             | N/A               | N/A                            | N/A                               | N/A  |

### **Irritation/Corrosion**

| Product/ingredient name | Result                   | Species | Score | Exposure    | Observation |
|-------------------------|--------------------------|---------|-------|-------------|-------------|
| -                       | Eyes - Cornea opacity    | Rabbit  | 2.11  | -           | 7 days      |
|                         | Eyes - Severe irritant   | Rabbit  | -     | 0.005 MI    | -           |
|                         | Eyes - Severe irritant   | Rabbit  | -     | 24 hours 2  | -           |
|                         |                          |         |       | mg          |             |
|                         | Skin - Moderate irritant | Rabbit  | -     | 24 hours 20 | -           |
|                         |                          |         |       | mg          |             |
| -                       | Skin - Mild irritant     | Rabbit  | -     | 500 mg      | -           |
| -                       | Eyes - Moderate irritant | Rabbit  | -     | 24 hours    | 21 days     |
| -                       | Eyes - Severe irritant   | Rabbit  | -     | 24 hours 50 | -           |
|                         |                          |         |       | ug          |             |
|                         | Skin - Mild irritant     | Rat     | -     | 0.025 MI    | -           |
|                         | Skin - Severe irritant   | Rabbit  | -     | 24 hours 2  | -           |
|                         |                          |         |       |             |             |

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|   |                        |        |   | mg           |   |
|---|------------------------|--------|---|--------------|---|
|   | Skin - Severe irritant | Rat    | - | 0.25 MI      | - |
| - | Eyes - Severe irritant | Rabbit | - | 24 hours 50  | - |
|   |                        |        |   | ug           |   |
|   | Skin - Severe irritant | Rabbit | - | 24 hours 750 | - |
|   |                        |        |   | ug           |   |
| - | Skin - Mild irritant   | Rabbit | - | 0.5 MI       | - |
|   |                        |        |   |              |   |

### Respiratory or skin sensitization

**Mutagenicity** 

**Carcinogenicity** 

**Reproductive toxicity** 

**Teratogenicity** 

### Specific target organ toxicity (single exposure)

| Product/ingredient name                  | Category                 | Route of exposure | Target organs                        |
|--|--------------------------|-------------------|--------------------------------------|
| Reaction mass of ethylbenzene and xylene | Category 3               | -                 | Respiratory tract irritation         |
| butan-1-ol                               | Category 3               | -                 | Respiratory tract irritation         |
|  | Category 3               |                   | Narcotic effects                     |
| 1-methoxy-2-propanol<br>n-butyl acetate  | Category 3<br>Category 3 | -                 | Narcotic effects<br>Narcotic effects |

### Specific target organ toxicity (repeated exposure)

| Product/ingredient name                  | Category   | Route of exposure | Target organs |
|--|------------|-------------------|---------------|
| Reaction mass of ethylbenzene and xylene | Category 2 | -                 | -             |

### **Aspiration hazard**

| Product/ingredient name                  | Result                         |
|--|--------------------------------|
| Reaction mass of ethylbenzene and xylene | ASPIRATION HAZARD - Category 1 |

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

of exposure

### Potential acute health effects

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

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness. May cause respiratory irritation.

Skin contact : Causes skin irritation. May cause an allergic skin reaction. Ingestion : Can cause central nervous system (CNS) depression.

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

Eye contact : Adverse symptoms may include the following:

> watering redness

Inhalation : Adverse symptoms may include the following:

respiratory tract irritation

coughing

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

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### **SECTION 11: Toxicological information**

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

pain or irritation

redness

blistering may occur

**Ingestion**: Adverse symptoms may include the following:

stomach pains

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

**Short term exposure** 

Potential immediate

: Not available.

effects

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**: May cause damage to organs through prolonged or repeated exposure. 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 |
|-------------------------|-------------------------------------|---------------------------------------|----------|
| -                       | Acute EC50 2.2 mg/l                 | Algae - Algae - Selenastrum           | 73 hours |
|                         |                                     | capricornutum                         |          |
|                         | Acute LC50 1 mg/l                   | Daphnia - Daphnia - Daphnia           | 24 hours |
|                         |                                     | magna                                 |          |
|                         | Acute LC50 2.6 mg/l                 | Fish - Trout - Oncorhynchus           | 96 hours |
|                         |                                     | mykiss                                |          |
|                         | Chronic NOEC 16 mg/l                | Micro-organism - Activated            | 28 days  |
|                         |                                     | sludge - Activated sludge             |          |
| -                       | Acute EC50 1983 mg/l Fresh water    | Daphnia - Water flea - <i>Daphnia</i> | 48 hours |
|                         |                                     | magna                                 |          |
|                         | Acute LC50 1730000 μg/l Fresh water | Fish - Fathead minnow -               | 96 hours |
|                         |                                     | Pimephales promelas                   |          |
| -                       | Acute LC50 >21100 mg/l              | Daphnia - Daphnia                     | 48 hours |
|                         | Acute LC50 ≥1000 mg/l               | Fish - Trout                          | 96 hours |
| -                       | Acute LC50 185 ppm Marine water     | Fish - Inland silverside -            | 96 hours |
|                         |                                     | Menidia beryllina                     |          |
| -                       | EC50 0.705 mg/l                     | Daphnia                               | 48 hours |
|                         | LC50 1.8 mg/l                       | Fish                                  | 96 hours |
| -                       | Acute LC50 460000 µg/l Fresh water  | Fish - Fathead minnow -               | 96 hours |
|                         |                                     | Pimephales promelas - Juvenile        |          |
|                         |                                     | (Fledgling, Hatchling, Weanling)      |          |
| -                       | Acute LC50 110 mg/l                 | Fish                                  | 96 hours |

**Conclusion/Summary**: Not available.

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### **SECTION 12: Ecological information**

### 12.2 Persistence and degradability

| Product/ingredient name | Test   | Result   | Dose | Inoculum |
|-------------------------|--|--|------|----------|
| -                       | OECD 301E<br>OECD 301C<br>Ready<br>Biodegradability -<br>Modified MITI<br>Test (I) | 96 % - 28 days<br>92 to 96 % - Readily - 14 days | -    | -        |

**Conclusion/Summary**: Not available.

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|-------------------------|-------------------|------------|------------------|
| 1-methoxy-2-propanol    | -                 |            | Readily          |
| benzyl alcohol          | -                 | -          | Readily          |

#### 12.3 Bioaccumulative potential

| Product/ingredient name                  | LogPow | BCF  | Potential |
|--|--------|------|-----------|
| Reaction mass of ethylbenzene and xylene | 3.16   | -    | Low       |
| butan-1-ol                               | 1      | -    | Low       |
| 1-methoxy-2-propanol                     | <1     | -    | Low       |
| n-butyl acetate                          | 2.3    | -    | Low       |
| benzyl alcohol                           | 0.87   | -    | Low       |
| 2,4,6-tris                               | 0.219  | -    | Low       |
| (dimethylaminomethyl)                    |        |      |           |
| phenol                                   |        |      |           |
| 3-aminomethyl-                           | 0.99   | -    | Low       |
| 3,5,5-trimethylcyclohexylamine           |        |      |           |
| m-phenylenebis<br>(methylamine)          | 0.18   | 2.69 | Low       |

### 12.4 Mobility in soil

Soil/water partition

: Not available.

coefficient (Koc)

**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.

**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** 

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

**Packaging** 

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# **SECTION 13: Disposal considerations**

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.

| Type of packaging | Waste catalogue |  |
|-------------------|-----------------|--|
|                   | 15 01 10*       | 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 RELATED<br>MATERIAL | PAINT RELATED<br>MATERIAL | PAINT RELATED<br>MATERIAL | PAINT RELATED<br>MATERIAL  |
| 14.3 Transport<br>hazard class(es) | 3                         | 3                         | 3                         | 3  |
| 14.4 Packing group                 | III                       | III                       | III                       | III  |
| 14.5<br>Environmental<br>hazards   | Yes.                      | Yes.                      | Yes.                      | Yes. The environmentally hazardous substance mark is not required. |

### **Additional information**

ADR/RID

: The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.

Tunnel code (D/E)

**ADN** 

: The environmentally hazardous substance mark is not required when transported in

sizes of ≤5 L or ≤5 kg.

**IMDG IATA** 

The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. The environmentally hazardous substance mark may appear if required by other

transportation regulations.

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 available.

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### **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.

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

### **Seveso Directive**

This product is controlled under the Seveso Directive.

### **Danger criteria**

### Category

P5c

E2

### **National regulations**

| Product/ingredient name | List name | Name on list | Classification | Notes |
|-------------------------|-----------|--------------|----------------|-------|
|                         |           |              |                |       |

### **International regulations**

### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

### **Montreal Protocol**

Not listed.

#### **Stockholm Convention on Persistent Organic Pollutants**

Not listed.

15.2 Chemical safety

: This product contains substances for which Chemical Safety Assessments are still

**assessment** 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

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# **SECTION 16: Other information**

| Classification          | Justification         |
|-------------------------|-----------------------|
| Flam. Liq. 3, H226      | On basis of test data |
| Skin Irrit. 2, H315     | Calculation method    |
| Eye Dam. 1, H318        | Calculation method    |
| Skin Sens. 1, H317      | Calculation method    |
| STOT SE 3, H335         | Calculation method    |
| STOT SE 3, H336         | Calculation method    |
| STOT RE 2, H373         | Calculation method    |
| Aquatic Chronic 2, H411 | Calculation method    |

### Full text of abbreviated H statements

| H226   | Flammable liquid and vapour.                                       |
|--------|--|
| H302   | Harmful if swallowed.  |
| H304   | May be fatal if swallowed and enters airways.                      |
| 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.                                 |
| H373   | May cause damage to organs through prolonged or repeated exposure. |
| H400   | Very toxic to aquatic life.  |
| H410   | Very toxic to aquatic life with long lasting effects.              |
| H411   | Toxic to aquatic life with long lasting effects.                   |
| H412   | Harmful to aquatic life with long lasting effects.                 |
| EUH066 | Repeated exposure may cause skin dryness or cracking.              |
| EUH071 | Corrosive to the respiratory tract.                                |
|        |  |

### Full text of classifications

| Acute Tox. 4      | ACUTE TOXICITY - Category 4                                     |
|-------------------|---|
| Aquatic Acute 1   | SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1                  |
| Aquatic Chronic 1 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1                 |
| Aquatic Chronic 2 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2                 |
| 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. 3      | FLAMMABLE LIQUIDS - Category 3                                  |
| Skin Corr. 1B     | SKIN CORROSION/IRRITATION - Category 1B                         |
| Skin Corr. 1C     | SKIN CORROSION/IRRITATION - Category 1C                         |
| 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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### **SECTION 16: Other information**

This product is intended for industrial use only.

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