




## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1 Product identifier:** 10213337, 10213338 - FIX-R EPDM Primer 0.5L & 1L  
**Other means of identification:**  
 Not relevant
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**  
 Relevant uses: Primers. For professional users/industrial user only.  
 Not for Consumer Use  
 Uses advised against: All uses not specified in this section or in section 7.3
- 1.3 Details of the supplier of the safety data sheet:**  
 FIX-R  
 Harding Way  
 PE27 3YJ St Ives - Cambridgeshire - United Kingdom  
 Phone: +44 (0) 1480 466 777  
 sigassured@sigplc.com  
 www.fix-r.co.uk
- 1.4 Emergency telephone number:** +44 (0) 1274 696979 (Monday - Friday 8am - 5pm GMT)

## SECTION 2: HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture:**  
**GB CLP Regulation (UK S.I. 2019/720 and UK S.I. 2020/1567):**  
 Classification of this product has been carried out in accordance with GB CLP Regulation (UK S.I. 2019/720 and UK S.I. 2020/1567).  
 Aquatic Chronic 3: Hazardous to the aquatic environment, long-term hazard, Category 3, H412  
 Flam. Liq. 2: Flammable liquids, Category 2, H225  
 Repr. 2: Reproductive toxicity, Category 2, H361d  
 Skin Irrit. 2: Skin irritation, Category 2, H315  
 Skin Sens. 1: Sensitisation, skin, Category 1, H317  
 STOT RE 2: Specific target organ toxicity, repeated exposure, Category 2, H373  
 STOT SE 3: Specific toxicity causing drowsiness and dizziness, single exposure, Category 3, H336
- 2.2 Label elements:**  
**GB CLP Regulation (UK S.I. 2019/720 and UK S.I. 2020/1567):**  
 Danger
- 


- Hazard statements:**  
 Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.  
 Flam. Liq. 2: H225 - Highly flammable liquid and vapour.  
 Repr. 2: H361d - Suspected of damaging the unborn child.  
 Skin Irrit. 2: H315 - Causes skin irritation.  
 Skin Sens. 1: H317 - May cause an allergic skin reaction.  
 STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure.  
 STOT SE 3: H336 - May cause drowsiness or dizziness.
- Precautionary statements:**

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**SECTION 2: HAZARDS IDENTIFICATION (continued)**

P201: Obtain special instructions before use.  
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233: Keep container tightly closed.  
P260: Do not breathe vapours  
P261: Avoid breathing vapours  
P264: Wash thoroughly after use.  
P271: Use only outdoors or in a well-ventilated area.  
P273: Avoid release to the environment.  
P280: Wear protective gloves/face protection/protective clothing/respiratory protection/protective footwear.  
P302+P352: IF ON SKIN: Wash with plenty of soap and water.  
P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P308+P313: IF exposed or concerned: Get medical advice/attention.  
P312: Call a POISON CENTER or doctor/physician if you feel unwell.  
P314: Get medical advice/attention if you feel unwell.  
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.  
P370+P378: In case of fire: Use Foam extinguisher (AB), Dry Chemical Powder (ABC) Fire Extinguisher, Carbon dioxide extinguisher (BC) to extinguish.  
P403+P233: Store in a well-ventilated place. Keep container tightly closed.  
P403+P235: Store in a well-ventilated place. Keep cool.  
P501: Dispose of the contents and/or its container in line with regulations on dangerous waste or packaging and waste packaging respectively.

**Supplementary information:**

EUH204: Contains isocyanates. May produce an allergic reaction.  
Contains Dibutyltin Dilaurate.

**Substances that contribute to the classification**

Toluene (CAS: 108-88-3); Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (CAS: 64742-49-0); 3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers (CAS: 53880-05-0)

**Additional Labelling:**

As from 24 August 2023 adequate training is required before industrial or professional use.

**Additional labeling:**

RCH004a Persons already sensitised to diisocyanates may develop allergic reactions when using this product.  
RCH004b Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.  
RCH004c This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

**2.3 Other hazards:**

Product does not meet PBT/vPvB criteria

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1 Substance:**

Non-applicable

**3.2 Mixture:**

**Chemical description:** Mixture of substances


**Components:**

In accordance with Annex II of The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020, the product contains:

| Identification  | Chemical name/Classification   | Concentration   |
|-----------------|--|-----------------|
| CAS: 108-88-3   | <b>Toluene</b><br>Aquatic Chronic 3: H412; Asp. Tox. 1: H304; Flam. Liq. 2: H225; Repr. 2: H361d; Skin Irrit. 2: H315; STOT RE 2: H373; STOT SE 3: H336 - Danger         | 75 - <100 %<br> |
| CAS: 64742-49-0 | <b>Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics</b><br>Aquatic Chronic 2: H411; Asp. Tox. 1: H304; Flam. Liq. 2: H225; Skin Irrit. 2: H315; STOT SE 3: H336 - Danger | 5 - <10 %<br>   |
| CAS: 53880-05-0 | <b>3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers</b><br>Skin Sens. 1: H317 - Warning  | 1 - <5 %<br>    |
| CAS: 67-63-0    | <b>propan-2-ol</b><br>Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H336 - Danger   | 0.1 - <1 %<br>  |

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### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

| Identification | Chemical name/Classification  | Concentration |
|----------------|---|---------------|
| CAS: 77-58-7   | <b>Dibutyltin Dilaurate</b><br>Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Eye Irrit. 2: H319; Muta. 2: H341; Repr. 1B: H360; Skin Sens. 1: H317; STOT RE 1: H372; STOT SE 1: H370 - Danger  | 0.1 - <1 %    |
| CAS: 1309-48-4 | <b>Magnesium oxide</b>  | 0.1 - <1 %    |

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

### SECTION 4: FIRST AID MEASURES

#### 4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

##### By inhalation:

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

##### By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

##### By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

##### By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

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

Acute and delayed effects are indicated in sections 2 and 11.

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

Not relevant

### SECTION 5: FIREFIGHTING MEASURES

#### 5.1 Extinguishing media:

##### Suitable extinguishing media:

Foam extinguisher (AB), Dry Chemical Powder (ABC) Fire Extinguisher, Carbon dioxide extinguisher (BC)

##### Unsuitable extinguishing media:

Water jet

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

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

#### 5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit, ...).

##### Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

#### For non-emergency personnel:

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Remove any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

#### For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

### 6.2 Environmental precautions:

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

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

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

### 6.4 Reference to other sections:

See sections 8 and 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling:

#### A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

#### B.- Technical recommendations for the prevention of fires and explosions

Transfer in well ventilated areas, preferably through localized extraction. Fully control sources of ignition (mobile phones, sparks,...) and ventilate during cleaning operations. Avoid the existence of dangerous atmospheres inside containers, applying inertization systems where possible. Transfer at a slow speed to avoid the creation of electrostatic charges. Against the possibility of electrostatic charges: ensure a perfect equipotential connection, always use groundings, do not wear work clothes made of acrylic fibres, preferably wearing cotton clothing and conductive footwear. Comply with the essential security requirements for equipment and systems defined in The Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016 and with the minimum requirements for protecting the security and health of workers under the selection criteria of The Dangerous Substances and Explosive Atmospheres Regulations 2002, 2002 No. 2776. Consult section 10 for conditions and materials that should be avoided.

#### C.- Technical recommendations on general occupational hygiene

**PREGNANT WOMEN SHOULD NOT BE EXPOSED TO THIS PRODUCT.** Transfer in designated areas that comply with the necessary safety conditions (emergency showers and eyewash stations in close proximity), using personal protection equipment, especially on the hands and face (See section 8). Limit manual transfers to small amounts only. Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

#### D.- Technical recommendations to prevent environmental risks

Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

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

#### A.- Specific storage requirements

Store in a cool, dry, well-ventilated location

#### B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

### 7.3 Specific end use(s):

See Section 1.2

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)**

**8.1 Control parameters:**

Substances whose occupational exposure limits have to be monitored in the workplace:

EH40/2005 Workplace exposure limits, fourth edition, published 2020:

| Identification                          | Occupational exposure limits |              |   |
|---|------------------------------|--------------|---|
|   | WEL (8h)                     | WEL (15 min) | WEL (8h)  |
| Toluene <sup>(1)</sup><br>CAS: 108-88-3 | 50 ppm                       | 100 ppm      | 191 mg/m <sup>3</sup><br>384 mg/m <sup>3</sup>  |
| Magnesium oxide<br>CAS: 1309-48-4       | WEL (8h)                     |              | 4 mg/m <sup>3</sup>                             |
|   | WEL (15 min)                 |              |   |
| propan-2-ol<br>CAS: 67-63-0             | 400 ppm                      | 500 ppm      | 999 mg/m <sup>3</sup><br>1250 mg/m <sup>3</sup> |
| Cumene <sup>(1)</sup><br>CAS: 98-82-8   | 25 ppm                       | 50 ppm       | 125 mg/m <sup>3</sup><br>250 mg/m <sup>3</sup>  |

<sup>(1)</sup> Skin

BIOLOGICAL MONITORING GUIDANCE VALUES (BMGVs) - EH40/2005 - Isocyanates (applies to HDI, IPDI, TDI and MDI): 1 µmol isocyanate-derived diamine/mol creatinine in urine. Sampling Time: At the end of the period of exposure.

**DNEL (Workers):**

| Identification   |            | Short exposure          |                       | Long exposure          |                       |
|--|------------|-------------------------|-----------------------|------------------------|-----------------------|
|  |            | Systemic                | Local                 | Systemic               | Local                 |
| Toluene<br>CAS: 108-88-3<br>EC: 203-625-9  | Oral       | Not relevant            | Not relevant          | Not relevant           | Not relevant          |
|  | Dermal     | Not relevant            | Not relevant          | 384 mg/kg              | Not relevant          |
|  | Inhalation | 384 mg/m <sup>3</sup>   | 384 mg/m <sup>3</sup> | 192 mg/m <sup>3</sup>  | 192 mg/m <sup>3</sup> |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics<br>CAS: 64742-49-0<br>EC: 927-510-4 | Oral       | Not relevant            | Not relevant          | Not relevant           | Not relevant          |
|  | Dermal     | Not relevant            | Not relevant          | 300 mg/kg              | Not relevant          |
|  | Inhalation | Not relevant            | Not relevant          | 2085 mg/m <sup>3</sup> | Not relevant          |
| propan-2-ol<br>CAS: 67-63-0<br>EC: 200-661-7   | Oral       | Not relevant            | Not relevant          | Not relevant           | Not relevant          |
|  | Dermal     | Not relevant            | Not relevant          | 888 mg/kg              | Not relevant          |
|  | Inhalation | Not relevant            | Not relevant          | 500 mg/m <sup>3</sup>  | Not relevant          |
| Dibutyltin Dilaurate<br>CAS: 77-58-7<br>EC: 201-039-8                                | Oral       | Not relevant            | Not relevant          | Not relevant           | Not relevant          |
|  | Dermal     | 2.08 mg/kg              | Not relevant          | 0.43 mg/kg             | Not relevant          |
|  | Inhalation | 0.059 mg/m <sup>3</sup> | Not relevant          | 0.02 mg/m <sup>3</sup> | Not relevant          |

**DNEL (General population):**

| Identification   |            | Short exposure         |                       | Long exposure           |                        |
|--|------------|------------------------|-----------------------|-------------------------|------------------------|
|  |            | Systemic               | Local                 | Systemic                | Local                  |
| Toluene<br>CAS: 108-88-3<br>EC: 203-625-9  | Oral       | Not relevant           | Not relevant          | 8.13 mg/kg              | Not relevant           |
|  | Dermal     | Not relevant           | Not relevant          | 226 mg/kg               | Not relevant           |
|  | Inhalation | 226 mg/m <sup>3</sup>  | 226 mg/m <sup>3</sup> | 56.5 mg/m <sup>3</sup>  | 56.5 mg/m <sup>3</sup> |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics<br>CAS: 64742-49-0<br>EC: 927-510-4 | Oral       | Not relevant           | Not relevant          | 149 mg/kg               | Not relevant           |
|  | Dermal     | Not relevant           | Not relevant          | 149 mg/kg               | Not relevant           |
|  | Inhalation | Not relevant           | Not relevant          | 447 mg/m <sup>3</sup>   | Not relevant           |
| propan-2-ol<br>CAS: 67-63-0<br>EC: 200-661-7   | Oral       | Not relevant           | Not relevant          | 26 mg/kg                | Not relevant           |
|  | Dermal     | Not relevant           | Not relevant          | 319 mg/kg               | Not relevant           |
|  | Inhalation | Not relevant           | Not relevant          | 89 mg/m <sup>3</sup>    | Not relevant           |
| Dibutyltin Dilaurate<br>CAS: 77-58-7<br>EC: 201-039-8                                | Oral       | 0.02 mg/kg             | Not relevant          | 0.003 mg/kg             | Not relevant           |
|  | Dermal     | 0.5 mg/kg              | Not relevant          | 0.16 mg/kg              | Not relevant           |
|  | Inhalation | 0.04 mg/m <sup>3</sup> | Not relevant          | 0.005 mg/m <sup>3</sup> | Not relevant           |

**PNEC:**

| Identification                            |              |              |                         |             |
|---|--------------|--------------|-------------------------|-------------|
| Toluene<br>CAS: 108-88-3<br>EC: 203-625-9 | STP          | 13.61 mg/L   | Fresh water             | 0.68 mg/L   |
|   | Soil         | 2.89 mg/kg   | Marine water            | 0.68 mg/L   |
|   | Intermittent | 0.68 mg/L    | Sediment (Fresh water)  | 16.39 mg/kg |
|   | Oral         | Not relevant | Sediment (Marine water) | 16.39 mg/kg |

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)**


| Identification  |              |             |                         |             |
|---|--------------|-------------|-------------------------|-------------|
| propan-2-ol<br>CAS: 67-63-0<br>EC: 200-661-7          | STP          | 2251 mg/L   | Fresh water             | 140.9 mg/L  |
|   | Soil         | 28 mg/kg    | Marine water            | 140.9 mg/L  |
|   | Intermittent | 140.9 mg/L  | Sediment (Fresh water)  | 552 mg/kg   |
|   | Oral         | 0.16 g/kg   | Sediment (Marine water) | 552 mg/kg   |
| Dibutyltin Dilaurate<br>CAS: 77-58-7<br>EC: 201-039-8 | STP          | 100 mg/L    | Fresh water             | 0 mg/L      |
|   | Soil         | 0.041 mg/kg | Marine water            | 0 mg/L      |
|   | Intermittent | 0.005 mg/L  | Sediment (Fresh water)  | 0.05 mg/kg  |
|   | Oral         | 0.0002 g/kg | Sediment (Marine water) | 0.005 mg/kg |

**8.2 Exposure controls:**


**A.- Individual protection measures, such as personal protective equipment**

In accordance with the order of importance to control professional exposure it is recommended to use localized extraction in the work area as a collective protection measure to avoid exceeding the occupational exposure limits. In case of using personal protective equipment it should have <<UKCA marking>> or <<CE marking>>. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For additional information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

**B.- Respiratory protection**


| Pictogram  | PPE                               | Remarks  |
|--|-----------------------------------|--|
| <br>Mandatory respiratory tract protection | Filter mask for gases and vapours | Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment. |

**C.- Specific protection for the hands**



| Pictogram  | PPE   | Remarks  |
|--|---|--|
| <br>Mandatory hand protection | Chemical protective gloves (Material: Linear low-density polyethylene (LLDPE), Breakthrough time: > 480 min, Thickness: 0.062 mm) | Replace the gloves at any sign of deterioration. |

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

**D.- Eye and face protection**

| Pictogram  | PPE         | Remarks   |
|--|-------------|---|
| <br>Mandatory face protection | Face shield | Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing. |



**E.- Body protection**

| Pictogram   | PPE   | Remarks   |
|---|---|---|
| <br>Mandatory complete body protection | Disposable clothing for protection against chemical risks, with antistatic and fireproof properties | For professional use only. Clean periodically according to the manufacturer's instructions. |
| <br>Mandatory foot protection          | Safety footwear for protection against chemical risk, with antistatic and heat resistant properties | Replace boots at any sign of deterioration.   |

**F.- Additional emergency measures**

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)**

| Emergency measure   | Standards                                       | Emergency measure  | Standards                                      |
|---|---|--|--|
| <br>Emergency shower | ANSI Z358-1<br>ISO 3864-1:2011, ISO 3864-4:2011 | <br>Eyewash stations | DIN 12 899<br>ISO 3864-1:2011, ISO 3864-4:2011 |

**Environmental exposure controls:**

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

**The Volatile Organic Compounds in Paints, Varnishes and Vehicle Refinishing Products Regulations 2012:**

|                          |                                 |
|--------------------------|---------------------------------|
| V.O.C. (Supply):         | 96.53 % weight                  |
| V.O.C. density at 20 °C: | 727 kg/m <sup>3</sup> (727 g/L) |

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**
**9.1 Information on basic physical and chemical properties:**

For complete information see the product datasheet.

**Appearance:**

|                          |                |
|--------------------------|----------------|
| Physical state at 20 °C: | Liquid         |
| Appearance:              | Not available  |
| Colour:                  | Brown          |
| Odour:                   | Hydrocarbon    |
| Odour threshold:         | Not relevant * |

**Volatility:**

|  |                 |
|--|-----------------|
| Boiling point at atmospheric pressure: | ca. 90 - 111 °C |
| Vapour pressure at 20 °C:              | 3320 Pa         |
| Vapour pressure at 50 °C:              | Not relevant *  |
| Evaporation rate at 20 °C:             | Not relevant *  |

**Product description:**

|  |                          |
|--|--------------------------|
| Density at 20 °C:                            | 880 kg/m <sup>3</sup>    |
| Relative density at 20 °C:                   | 0.88                     |
| Dynamic viscosity at 20 °C:                  | <0.69 cP                 |
| Kinematic viscosity at 20 °C:                | >20.5 mm <sup>2</sup> /s |
| Kinematic viscosity at 40 °C:                | Not relevant *           |
| Concentration:                               | Not relevant *           |
| pH:  | Not relevant *           |
| Vapour density at 20 °C:                     | 3.2 kg/m <sup>3</sup>    |
| Partition coefficient n-octanol/water 20 °C: | Not relevant *           |
| Solubility in water at 20 °C:                | Not relevant *           |
| Solubility properties:                       | Not relevant *           |
| Decomposition temperature:                   | Not relevant *           |
| Melting point/freezing point:                | Not relevant *           |

**Flammability:**

|                            |                |
|----------------------------|----------------|
| Flash Point:               | -7 °C          |
| Flammability (solid, gas): | Not relevant * |
| Autoignition temperature:  | 230 °C         |
| Lower flammability limit:  | 1 % Volume     |

\*Not relevant due to the nature of the product, not providing information property of its hazards.

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)**

Upper flammability limit: 7 % Volume

**Particle characteristics:**

Median equivalent diameter: Non-applicable

**9.2 Other information:**

**Information with regard to physical hazard classes:**

Explosive properties: Not relevant \*

Oxidising properties: Not relevant \*

Corrosive to metals: Not relevant \*

Heat of combustion: Not relevant \*

Aerosols-total percentage (by mass) of flammable components: Not relevant \*

**Other safety characteristics:**

Surface tension at 20 °C: Not relevant \*

Refraction index: Not relevant \*

\*Not relevant due to the nature of the product, not providing information property of its hazards.

**SECTION 10: STABILITY AND REACTIVITY**

**10.1 Reactivity:**

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet.

**10.2 Chemical stability:**

Chemically stable under the indicated conditions of storage, handling and use.

**10.3 Possibility of hazardous reactions:**

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

**10.4 Conditions to avoid:**

Applicable for handling and storage at room temperature:

| Shock and friction | Contact with air | Increase in temperature | Sunlight            | Humidity       |
|--------------------|------------------|-------------------------|---------------------|----------------|
| Not applicable     | Not applicable   | Risk of combustion      | Avoid direct impact | Not applicable |

**10.5 Incompatible materials:**

| Acids              | Water          | Oxidising materials | Combustible materials | Others                        |
|--------------------|----------------|---------------------|-----------------------|-------------------------------|
| Avoid strong acids | Not applicable | Avoid direct impact | Not applicable        | Avoid alkalis or strong bases |

**10.6 Hazardous decomposition products:**

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO<sub>2</sub>), carbon monoxide and other organic compounds.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects:**

The experimental information related to the toxicological properties of the product itself is not available

**Dangerous health implications:**

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for consumption. For more information see section 3
- Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.

B- Inhalation (acute effect):

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**SECTION 11: TOXICOLOGICAL INFORMATION (continued)**

- Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- C- Contact with the skin and the eyes (acute effect):
  - Contact with the skin: Produces skin inflammation.
  - Contact with the eyes: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
  - Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.  
IARC: Toluene (3); Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (3); propan-2-ol (3); Cumene (2B)
  - Mutagenicity: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous with mutagenic effects. For more information see section 3.
  - Reproductive toxicity: Suspected to damage the foetus
- E- Sensitizing effects:
  - Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
  - Skin: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.
- F- Specific target organ toxicity (STOT) - single exposure:
 

Exposure in high concentration can interfere with the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.
- G- Specific target organ toxicity (STOT)-repeated exposure:
  - Specific target organ toxicity (STOT)-repeated exposure: Exposure in high concentration can interfere with the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.
  - Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- H- Aspiration hazard:
 

Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

**Other information:**

Not relevant

**Specific toxicology information on the substances:**

| Identification  | Acute toxicity  |                 | Genus |
|---|-----------------|-----------------|-------|
|   | LD50 oral       | LD50 dermal     |       |
| Toluene<br>CAS: 108-88-3  | LD50 oral       | 5580 mg/kg      | Rat   |
|   | LD50 dermal     | 12124 mg/kg     | Rat   |
|   | LC50 inhalation | 28.1 mg/L (4 h) | Rat   |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics<br>CAS: 64742-49-0                   | LD50 oral       | >5000 mg/kg     |       |
|   | LD50 dermal     | >5000 mg/kg     |       |
|   | LC50 inhalation | >20 mg/L        |       |
| 3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers<br>CAS: 53880-05-0 | LD50 oral       | >5000 mg/kg     |       |
|   | LD50 dermal     | >5000 mg/kg     |       |
|   | LC50 inhalation |                 |       |
| propan-2-ol<br>CAS: 67-63-0   | LD50 oral       | 5280 mg/kg      | Rat   |
|   | LD50 dermal     | 12800 mg/kg     | Rat   |
|   | LC50 inhalation | 72.6 mg/L (4 h) | Rat   |
| Dibutyltin Dilaurate<br>CAS: 77-58-7  | LD50 oral       | 2071 mg/kg      | Rat   |
|   | LD50 dermal     | >5000 mg/kg     |       |
|   | LC50 inhalation | >20 mg/L        |       |
| Magnesium oxide<br>CAS: 1309-48-4   | LD50 oral       | >5000 mg/kg     |       |
|   | LD50 dermal     | >5000 mg/kg     |       |
|   | LC50 inhalation | >5 mg/L         |       |

**Acute Toxicity Estimate (ATE mix):**

- CONTINUED ON NEXT PAGE -

## SECTION 11: TOXICOLOGICAL INFORMATION (continued)

| ATE mix    |                                     | Ingredient(s) of unknown toxicity |
|------------|-------------------------------------|-----------------------------------|
| Oral       | >5000 mg/kg (Calculation method)    | Non-applicable                    |
| Dermal     | >5000 mg/kg (Calculation method)    | Non-applicable                    |
| Inhalation | >20 mg/L (4 h) (Calculation method) | Non-applicable                    |

## SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available  
Harmful to aquatic life with long lasting effects.

### 12.1 Toxicity:

#### Acute toxicity:

| Identification  | Concentration |                      | Species                 | Genus      |
|---|---------------|----------------------|-------------------------|------------|
| Toluene<br>CAS: 108-88-3  | LC50          | 13 mg/L (96 h)       | Carassius auratus       | Fish       |
|   | EC50          | 11.5 mg/L (48 h)     | Daphnia magna           | Crustacean |
|   | EC50          | Not relevant         |                         |            |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics<br>CAS: 64742-49-0 | LC50          | >1 - 10 mg/L (96 h)  |                         | Fish       |
|   | EC50          | >1 - 10 mg/L (48 h)  |                         | Crustacean |
|   | EC50          | >1 - 10 mg/L (72 h)  |                         | Algae      |
| propan-2-ol<br>CAS: 67-63-0   | LC50          | 9640 mg/L (96 h)     | Pimephales promelas     | Fish       |
|   | EC50          | 13299 mg/L (48 h)    | Daphnia magna           | Crustacean |
|   | EC50          | 1000 mg/L (72 h)     | Scenedesmus subspicatus | Algae      |
| Dibutyltin Dilaurate<br>CAS: 77-58-7                                | LC50          | >0.1 - 1 mg/L (96 h) |                         | Fish       |
|   | EC50          | >0.1 - 1 mg/L (48 h) |                         | Crustacean |
|   | EC50          | >0.1 - 1 mg/L (72 h) |                         | Algae      |

#### Chronic toxicity:

| Identification  | Concentration |              | Species       | Genus      |
|---|---------------|--------------|---------------|------------|
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics<br>CAS: 64742-49-0 | NOEC          | Not relevant |               |            |
|   | NOEC          | 0.17 mg/L    | Daphnia magna | Crustacean |

### 12.2 Persistence and degradability:

#### Substance-specific information:

| Identification  | Degradability |              | Biodegradability |              |
|---|---------------|--------------|------------------|--------------|
|   |               |              |                  |              |
| Toluene<br>CAS: 108-88-3  | BOD5          | 2.5 g O2/g   | Concentration    | 100 mg/L     |
|   | COD           | Not relevant | Period           | 14 days      |
|   | BOD5/COD      | Not relevant | % Biodegradable  | 100 %        |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics<br>CAS: 64742-49-0 | BOD5          | Not relevant | Concentration    | Not relevant |
|   | COD           | Not relevant | Period           | 14 days      |
|   | BOD5/COD      | Not relevant | % Biodegradable  | 95 %         |
| propan-2-ol<br>CAS: 67-63-0   | BOD5          | 1.19 g O2/g  | Concentration    | 100 mg/L     |
|   | COD           | 2.23 g O2/g  | Period           | 14 days      |
|   | BOD5/COD      | 0.53         | % Biodegradable  | 86 %         |
| Dibutyltin Dilaurate<br>CAS: 77-58-7                                | BOD5          | 0 g O2/g     | Concentration    | 100 mg/L     |
|   | COD           | Not relevant | Period           | 28 days      |
|   | BOD5/COD      | Not relevant | % Biodegradable  | 50 %         |

### 12.3 Bioaccumulative potential:

#### Substance-specific information:

| Identification              | Bioaccumulation potential |          |
|-----------------------------|---------------------------|----------|
| Toluene<br>CAS: 108-88-3    | BCF                       | 90       |
|                             | Pow Log                   | 2.73     |
|                             | Potential                 | Moderate |
| propan-2-ol<br>CAS: 67-63-0 | BCF                       | 3        |
|                             | Pow Log                   | 0.05     |
|                             | Potential                 | Low      |

- CONTINUED ON NEXT PAGE -

**SECTION 12: ECOLOGICAL INFORMATION (continued)**

| Identification                       | Bioaccumulation potential |          |
|--------------------------------------|---------------------------|----------|
| Dibutyltin Dilaurate<br>CAS: 77-58-7 | BCF                       | 31       |
|                                      | Pow Log                   | 3.12     |
|                                      | Potential                 | Moderate |

**12.4 Mobility in soil:**

| Identification              | Absorption/desorption |                      | Volatility |                                 |
|-----------------------------|-----------------------|----------------------|------------|---------------------------------|
| Toluene<br>CAS: 108-88-3    | Koc                   | 178                  | Henry      | 672.8 Pa·m <sup>3</sup> /mol    |
|                             | Conclusion            | Moderate             | Dry soil   | Yes                             |
|                             | Surface tension       | 2.793E-2 N/m (25 °C) | Moist soil | Yes                             |
| propan-2-ol<br>CAS: 67-63-0 | Koc                   | 1.5                  | Henry      | 8.207E-1 Pa·m <sup>3</sup> /mol |
|                             | Conclusion            | Very High            | Dry soil   | Yes                             |
|                             | Surface tension       | 2.24E-2 N/m (25 °C)  | Moist soil | Yes                             |

**12.5 Results of PBT and vPvB assessment:**

Product does not meet PBT/vPvB criteria

**12.6 Other adverse effects:**

Not described

**SECTION 13: DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods:**

| Code      | Description  | Waste class |
|-----------|--|-------------|
| 08 04 09* | waste adhesives and sealants containing organic solvents or other hazardous substances | Hazardous   |

**Type of waste:**

HP14 Ecotoxic, HP3 Flammable, HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity, HP10 Toxic for reproduction, HP4 Irritant — skin irritation and eye damage

**Waste management (disposal and evaluation):**

Consult the authorized waste service manager on the assessment and disposal operations in accordance The Waste (England & Wales) Regulations 2011, 2011 No. 988. As under 15 01 of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-hazardous residue. Waste should not be disposed of to drains. See paragraph 6.2.

**Regulations related to waste management:**

In accordance with Annex II of UK REACH the provisions related to waste management are stated:

UK legislation: The Waste (England & Wales) Regulations 2011.

**SECTION 14: TRANSPORT INFORMATION**

**Transport of dangerous goods by land:**

With regard to ADR 2023 and RID 2023:



- 14.1 UN number: UN1993
- 14.2 UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (Toluene)
- 14.3 Transport hazard class(es): 3  
Labels: 3
- 14.4 Packing group: II
- 14.5 Environmental hazards: No
- 14.6 Special precautions for user  
Tunnel restriction code: D/E  
Physico-Chemical properties: see section 9  
Limited quantities: 1 L
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code: Not relevant

**Transport of dangerous goods by sea:**

With regard to IMDG 41-22:

- CONTINUED ON NEXT PAGE -

10213337, 10213338 - FIX-R EPDM Primer 0.5L & 1L

**SECTION 14: TRANSPORT INFORMATION (continued)**



- 14.1 UN number: UN1993
- 14.2 UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (Toluene)
- 14.3 Transport hazard class(es): 3  
Labels: 3
- 14.4 Packing group: II
- 14.5 Marine pollutant: No
- 14.6 Special precautions for user  
Special regulations: 274  
EmS Codes: F-E, S-E  
Physico-Chemical properties: see section 9  
Limited quantities: 1 L  
Segregation group: Not relevant
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code: Not relevant

**Transport of dangerous goods by air:**

With regard to IATA/ICAO 2024:



- 14.1 UN number: UN1993
- 14.2 UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (Toluene)
- 14.3 Transport hazard class(es): 3  
Labels: 3
- 14.4 Packing group: II
- 14.5 Environmental hazards: No
- 14.6 Special precautions for user  
Physico-Chemical properties: see section 9
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code: Not relevant

**SECTION 15: REGULATORY INFORMATION**

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

- Substances listed in UK candidate list of substances of very high concern (SVHCs): Not relevant
- Substances listed in UK REACH Authorisation List (Annex 14): Not relevant

**The Control of Major Accident Hazards Regulations 2015:**

| Section | Description       | Lower-tier requirements | Upper-tier requirements |
|---------|-------------------|-------------------------|-------------------------|
| P5c     | FLAMMABLE LIQUIDS | 5000                    | 50000                   |

**Restrictions to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII UK REACH, etc ....):**

- CONTINUED ON NEXT PAGE -

**SECTION 15: REGULATORY INFORMATION (continued)**

Shall not be used in:

- ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
- tricks and jokes,
- games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

Contains more than 0.1 % of Toluene by weight. Shall not be placed on the market, or used, as a substance or in mixtures in a concentration equal to or greater than 0,1 % by weight where the substance or mixture is used in adhesives or spray paints intended for supply to the general public.

Contains more than 0.1 % of 3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers by weight. 1. Shall not be used as substances on their own, as a constituent in other substances or in mixtures for industrial and professional use(s) after 24 August 2023, unless:

(a) the concentration of diisocyanates individually and in combination is less than 0,1 % by weight, or (b) the employer or self-employed ensures that industrial or professional user(s) have successfully completed training on the safe use of diisocyanates prior to the use of the substance(s) or mixture(s).

2. Shall not be placed on the market as substances on their own, as a constituent in other substances or in mixtures for industrial and professional use(s) after 24 February 2022, unless:

(a) the concentration of diisocyanates individually and in combination is less than 0,1 % by weight, or (b) the supplier ensures that the recipient of the substance(s) or mixture(s) is provided with information on the requirements referred to in point (b) of paragraph 1 and the following statement is placed on the packaging, in a manner that is visibly distinct from the rest of the label information: "As from 24 August 2023 adequate training is required before industrial or professional use".

3. For the purpose of this entry "industrial and professional user(s)" means any worker or self-employed worker handling diisocyanates on their own, as a constituent in other substances or in mixtures for industrial and professional use(s) or supervising these tasks.

4. The training referred to in point (b) of paragraph 1 shall include the instructions for the control of dermal and inhalation exposure to diisocyanates at the workplace without prejudice to any national occupational exposure limit value or other appropriate risk management measures at national level. Such training shall be conducted by an expert on occupational safety and health with competence acquired by relevant vocational training. That training shall cover as a minimum:

(a) the training elements in point (a) of paragraph 5 for all industrial and professional use(s).

(b) the training elements in points (a) and (b) of paragraph 5 for the following uses:

- handling open mixtures at ambient temperature (including foam tunnels)
  - spraying in a ventilated booth
  - application by roller
  - application by brush
  - application by dipping and pouring
  - mechanical post treatment (e.g. cutting) of not fully cured articles which are not warm anymore
  - cleaning and waste
  - any other uses with similar exposure through the dermal and/or inhalation route
- (c) the training elements in points (a), (b) and (c) of paragraph 5 for the following uses:
- handling incompletely cured articles (e.g. freshly cured, still warm)
  - foundry applications
  - maintenance and repair that needs access to equipment
  - open handling of warm or hot formulations (> 45 °C)
  - spraying in open air, with limited or only natural ventilation (includes large industry working halls) and spraying with high energy (e.g. foams, elastomers)
  - and any other uses with similar exposure through the dermal and/or inhalation route.

5. Training elements:

(a) general training, including on-line training, on:

- chemistry of diisocyanates
- toxicity hazards (including acute toxicity)
- exposure to diisocyanates
- occupational exposure limit values
- how sensitisation can develop
- odour as indication of hazard
- importance of volatility for risk
- viscosity, temperature, and molecular weight of diisocyanates
- personal hygiene
- personal protective equipment needed, including practical instructions for its correct use and its limitations
- risk of dermal contact and inhalation exposure
- risk in relation to application process used
- skin and inhalation protection scheme
- ventilation
- cleaning, leakages, maintenance
- discarding empty packaging
- protection of bystanders
- identification of critical handling stages
- specific national code systems (if applicable)
- behaviour-based safety

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## SECTION 15: REGULATORY INFORMATION (continued)

- certification or documented proof that training has been successfully completed
- (b) intermediate level training, including on-line training, on:
  - additional behaviour-based aspects
  - maintenance
  - management of change
  - evaluation of existing safety instructions
  - risk in relation to application process used
- certification or documented proof that training has been successfully completed
- (c) advanced training, including on-line training, on:
  - any additional certification needed for the specific uses covered
  - spraying outside a spraying booth
  - open handling of hot or warm formulations (> 45 °C)
- certification or documented proof that training has been successfully completed

6. The training shall comply with the provisions set by the Member State in which the industrial or professional user(s) operate. Member States may implement or continue to apply their own national requirements for the use of the substance(s) or mixture(s), as long as the minimum requirements set out in paragraphs 4 and 5 are met.

7. The supplier referred to in point (b) of paragraph 2 shall ensure that the recipient is provided with training material and courses pursuant to paragraphs 4 and 5 in the official language(s) of the Member State(s) where the substance(s) or mixture(s) are supplied. The training shall take into consideration the specificity of the products supplied, including composition, packaging, and design.

8. The employer or self-employed shall document the successful completion of the training referred to in paragraphs 4 and 5. The training shall be renewed at least every five years.

9. Member States shall include in their reports pursuant to Article 117(1) the following information:

- (a) any established training requirements and other risk management measures related to the industrial and professional uses of diisocyanates foreseen in national law
- (b) the number of cases of reported and recognised occupational asthma and occupational respiratory and dermal diseases in relation to diisocyanates
- (c) national exposure limits for diisocyanates, if there are any
- (d) information about enforcement activities related to this restriction.

10. This restriction shall apply without prejudice to other Union legislation on the protection of safety and health of workers at the workplace.

### Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

### Other legislation:

The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2020.

Control of Substances Hazardous to Health Regulations 2002 (as amended)

EH40/2005 Workplace exposure limits.

### Other information:

REACH Annex XVII restriction entry No 48

## SECTION 16: OTHER INFORMATION

### Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

### Texts of the legislative phrases mentioned in section 2:

H315: Causes skin irritation.

H336: May cause drowsiness or dizziness.

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

H412: Harmful to aquatic life with long lasting effects.

H361d: Suspected of damaging the unborn child.

H317: May cause an allergic skin reaction.

H225: Highly flammable liquid and vapour.

### Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

**GB CLP Regulation (UK S.I. 2019/720 and UK S.I. 2020/1567):**

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**SECTION 16: OTHER INFORMATION (continued)**

Aquatic Acute 1: H400 - Very toxic to aquatic life.  
Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.  
Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.  
Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.  
Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways.  
Eye Irrit. 2: H319 - Causes serious eye irritation.  
Flam. Liq. 2: H225 - Highly flammable liquid and vapour.  
Muta. 2: H341 - Suspected of causing genetic defects.  
Repr. 1B: H360 - May damage fertility or the unborn child.  
Repr. 2: H361d - Suspected of damaging the unborn child.  
Skin Irrit. 2: H315 - Causes skin irritation.  
Skin Sens. 1: H317 - May cause an allergic skin reaction.  
STOT RE 1: H372 - Causes damage to organs through prolonged or repeated exposure (oral).  
STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure.  
STOT SE 1: H370 - Causes damage to organs.  
STOT SE 3: H336 - May cause drowsiness or dizziness.

**Classification procedure:**

Skin Irrit. 2: Calculation method  
STOT SE 3: Calculation method  
STOT RE 2: Calculation method  
Aquatic Chronic 3: Calculation method  
Repr. 2: Calculation method  
Skin Sens. 1: Calculation method  
Flam. Liq. 2: Calculation method (2.6.4.3)

**Advice related to training:**

Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

**Principal bibliographical sources:**

<http://echa.europa.eu>  
<http://eur-lex.europa.eu>

**Abbreviations and acronyms:**

ADR: European agreement concerning the international carriage of dangerous goods by road  
IMDG: International maritime dangerous goods code  
IATA: International Air Transport Association  
ICAO: International Civil Aviation Organisation  
COD: Chemical Oxygen Demand  
BOD5: 5day biochemical oxygen demand  
BCF: Bioconcentration factor  
LD50: Lethal Dose 50  
LC50: Lethal Concentration 50  
EC50: Effective concentration 50  
LogPOW: Octanol/water partition coefficient  
Koc: Partition coefficient of organic carbon  
UFI: unique formula identifier  
IARC: International Agency for Research on Cancer