




**Brush on Dental Adhesive  
ASTBOA30ML**

Date of compilation: 02/08/2023      Revised: 21/08/2023      Version: 2 (Replaced 1)

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

- 1.1 Product identifier:** Brush on Dental Adhesive  
ASTBOA30ML
- Other means of identification:**  
Non-applicable
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**  
Relevant uses: Tackifier. For professional users/industrial user only.  
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:**
- |   |   |
|---|---|
| Mident Dental Supplies Ltd<br>406, Phoenix Park Ind Estate<br>Phoenix Close, Heywood<br>Lancashire OL10 2JG<br>United Kingdom<br>TEL +44 (0)161 761 1111 email sales@mident.co.uk | Australian Distributor<br>Ultimate Dental Supply<br>660a South Rd<br>Moorabbin Vic 3189<br>TEL 03 9532 1799<br>email: info@ultimatedental.com.au<br>Emergency (Australia) - Poisons 24/7 - 13 11 26 |
|---|---|
- 1.4 Emergency telephone number:** NPIS: 0844 892 0111 (healthcare professionals only) or NHS 111.  
  
+44 (0) 777 8505 330 (24 hrs)

**SECTION 2: HAZARDS IDENTIFICATION**

- 2.1 Classification of the substance or mixture:**
- GB CLP Regulation:**  
Classification of this product has been carried out in accordance with GB CLP Regulation.  
Acute Tox. 4: Acute inhalation toxicity, Category 4, H332  
Aquatic Chronic 3: Hazardous to the aquatic environment, long-term hazard, Category 3, H412  
Eye Irrit. 2: Eye irritation, Category 2, H319  
Flam. Liq. 2: Flammable liquids, Category 2, H225  
Skin Irrit. 2: Skin irritation, Category 2, H315  
STOT RE 2: Specific target organ toxicity — Repeated exposure, Hazard Category 2 (Oral), H373  
STOT SE 3: Specific toxicity causing drowsiness and dizziness, single exposure, Category 3, H336  
STOT SE 3: Respiratory tract toxicity, single exposure, Category 3, H335
- 2.2 Label elements:**
- GB CLP Regulation:**  
Danger
- 


- Hazard statements:**  
Acute Tox. 4: H332 - Harmful if inhaled.  
Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.  
Eye Irrit. 2: H319 - Causes serious eye irritation.  
Flam. Liq. 2: H225 - Highly flammable liquid and vapour.  
Skin Irrit. 2: H315 - Causes skin irritation.  
STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure (Oral). Organs affected: All gross lesions and masses.  
STOT SE 3: H336 - May cause drowsiness or dizziness.  
STOT SE 3: H335 - May cause respiratory irritation.
- Precautionary statements:**

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

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P260: Do not breathe vapours.  
P271: Use only outdoors or in a well-ventilated area.  
P280: Wear protective gloves/eye protection/face protection.  
P302+P352: IF ON SKIN: Wash with plenty of soap and water.  
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P403+P233: Store in a well-ventilated place. Keep container tightly closed.  
P501: Dispose of the contents/containers in accordance with the current legislation on waste treatment

**Substances that contribute to the classification**

Xylene (CAS: 1330-20-7)

**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 composed of additives and resins in solvents

**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: 1330-20-7 | <b>Xylene</b><br>Acute Tox. 4: H312+H332; Aquatic Chronic 3: H412; Asp. Tox. 1: H304; Eye Irrit. 2: H319; Flam. Liq. 3: H226; Skin Irrit. 2: H315; STOT RE 2: H373; STOT SE 3: H335 - Danger | 25 - <50 %    |
| CAS: 67-63-0   | <b>propan-2-ol</b><br>Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H336 - Danger   | 25 - <50 %    |
| CAS: 107-98-2  | <b>1-methoxy-2-propanol</b><br>Flam. Liq. 3: H226; STOT SE 3: H336 - Warning   | 3 - <10 %     |

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.

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**SECTION 4: FIRST AID MEASURES (continued)**

- 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:**  
Non-applicable

**SECTION 5: FIREFIGHTING MEASURES**

- 5.1 Extinguishing media:**  
**Suitable extinguishing media:**  
If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO<sub>2</sub>).  
**Unsuitable extinguishing media:**  
IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.
- 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.

**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.

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**SECTION 7: HANDLING AND STORAGE (continued)**

**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**

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.- Technical measures for storage**

Minimum Temp.: 4 °C

Maximum Temp.: 40 °C

**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):**

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**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 |         |                        |
|---|------------------------------|---------|------------------------|
| propan-2-ol<br>CAS: 67-63-0             | WEL (8h)                     | 400 ppm | 999 mg/m <sup>3</sup>  |
|   | WEL (15 min)                 | 500 ppm | 1250 mg/m <sup>3</sup> |
| Xylene<br>CAS: 1330-20-7                | WEL (8h)                     | 50 ppm  | 220 mg/m <sup>3</sup>  |
|   | WEL (15 min)                 | 100 ppm | 441 mg/m <sup>3</sup>  |
| 1-methoxy-2-propanol<br>CAS: 107-98-2   | WEL (8h)                     | 100 ppm | 375 mg/m <sup>3</sup>  |
|   | WEL (15 min)                 | 150 ppm | 560 mg/m <sup>3</sup>  |
| 2,2'-iminodiethylamine<br>CAS: 111-40-0 | WEL (8h)                     | 1 ppm   | 4.3 mg/m <sup>3</sup>  |
|   | WEL (15 min)                 |         |                        |

**Biological limit values:**

BIOLOGICAL MONITORING GUIDANCE VALUES (BMGVs) - EH40/2005

| Identification           | NULL             | NULL                          | NULL       |
|--------------------------|------------------|-------------------------------|------------|
| Xylene<br>CAS: 1330-20-7 | 1030 mg/g (NULL) | Methyl hippuric acid in urine | Post shift |

**DNEL (Workers):**

| Identification                               |            | Short exposure        |                       | Long exposure         |                       |
|--|------------|-----------------------|-----------------------|-----------------------|-----------------------|
|  |            | Systemic              | Local                 | Systemic              | Local                 |
| Xylene<br>CAS: 1330-20-7<br>EC: 215-535-7    | Oral       | Non-applicable        | Non-applicable        | Non-applicable        | Non-applicable        |
|  | Dermal     | Non-applicable        | Non-applicable        | 212 mg/kg             | Non-applicable        |
|  | Inhalation | 442 mg/m <sup>3</sup> | 442 mg/m <sup>3</sup> | 221 mg/m <sup>3</sup> | 221 mg/m <sup>3</sup> |
| propan-2-ol<br>CAS: 67-63-0<br>EC: 200-661-7 | Oral       | Non-applicable        | Non-applicable        | Non-applicable        | Non-applicable        |
|  | Dermal     | Non-applicable        | Non-applicable        | 888 mg/kg             | Non-applicable        |
|  | Inhalation | Non-applicable        | Non-applicable        | 500 mg/m <sup>3</sup> | Non-applicable        |

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

| Identification   |            | Short exposure          |                         | Long exposure         |                |
|--|------------|-------------------------|-------------------------|-----------------------|----------------|
|  |            | Systemic                | Local                   | Systemic              | Local          |
| 1-methoxy-2-propanol<br>CAS: 107-98-2<br>EC: 203-539-1 | Oral       | Non-applicable          | Non-applicable          | Non-applicable        | Non-applicable |
|  | Dermal     | Non-applicable          | Non-applicable          | 183 mg/kg             | Non-applicable |
|  | Inhalation | 553.5 mg/m <sup>3</sup> | 553.5 mg/m <sup>3</sup> | 369 mg/m <sup>3</sup> | Non-applicable |

**DNEL (General population):**

| Identification   |            | Short exposure        |                       | Long exposure          |                        |
|--|------------|-----------------------|-----------------------|------------------------|------------------------|
|  |            | Systemic              | Local                 | Systemic               | Local                  |
| Xylene<br>CAS: 1330-20-7<br>EC: 215-535-7              | Oral       | Non-applicable        | Non-applicable        | 12.5 mg/kg             | Non-applicable         |
|  | Dermal     | Non-applicable        | Non-applicable        | 125 mg/kg              | Non-applicable         |
|  | Inhalation | 260 mg/m <sup>3</sup> | 260 mg/m <sup>3</sup> | 65.3 mg/m <sup>3</sup> | 65.3 mg/m <sup>3</sup> |
| propan-2-ol<br>CAS: 67-63-0<br>EC: 200-661-7           | Oral       | Non-applicable        | Non-applicable        | 26 mg/kg               | Non-applicable         |
|  | Dermal     | Non-applicable        | Non-applicable        | 319 mg/kg              | Non-applicable         |
|  | Inhalation | Non-applicable        | Non-applicable        | 89 mg/m <sup>3</sup>   | Non-applicable         |
| 1-methoxy-2-propanol<br>CAS: 107-98-2<br>EC: 203-539-1 | Oral       | Non-applicable        | Non-applicable        | 33 mg/kg               | Non-applicable         |
|  | Dermal     | Non-applicable        | Non-applicable        | 78 mg/kg               | Non-applicable         |
|  | Inhalation | Non-applicable        | Non-applicable        | 43.9 mg/m <sup>3</sup> | Non-applicable         |

**PNEC:**


| Identification   |              |                |                         |             |  |
|--|--------------|----------------|-------------------------|-------------|--|
| Xylene<br>CAS: 1330-20-7<br>EC: 215-535-7              | STP          | 6.58 mg/L      | Fresh water             | 0.327 mg/L  |  |
|  | Soil         | 2.31 mg/kg     | Marine water            | 0.327 mg/L  |  |
|  | Intermittent | 0.327 mg/L     | Sediment (Fresh water)  | 12.46 mg/kg |  |
|  | Oral         | Non-applicable | Sediment (Marine water) | 12.46 mg/kg |  |
| 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   |  |
| 1-methoxy-2-propanol<br>CAS: 107-98-2<br>EC: 203-539-1 | STP          | 100 mg/L       | Fresh water             | 10 mg/L     |  |
|  | Soil         | 4.59 mg/kg     | Marine water            | 1 mg/L      |  |
|  | Intermittent | 100 mg/L       | Sediment (Fresh water)  | 52.3 mg/kg  |  |
|  | Oral         | Non-applicable | Sediment (Marine water) | 5.2 mg/kg   |  |

**8.2 Exposure controls:**


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

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<UKCA marking>>. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more 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 (Filter type: A2) | 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: Nitrile/Neoprene, Breakthrough time: > 480 min, Thickness: 0.062 mm, Conditions of use: Normal) | Replace the gloves at any sign of deterioration. |

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

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 | Panoramic glasses against splash/projections. | 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 | Antistatic and fireproof protective clothing                  | Limited protection against flames.          |
| <br>Mandatory foot protection          | Safety footwear with antistatic and heat resistant properties | Replace boots at any sign of deterioration. |

**F.- Additional emergency measures**

| 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

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 Information on basic physical and chemical properties:**

**Appearance:**

|  |                         |
|--|-------------------------|
| Physical state at 20 °C:               | Liquid                  |
| Appearance:                            | Not available           |
| Colour:                                | Pink                    |
| Odour:                                 | Aromatic                |
| Odour threshold:                       | Non-applicable *        |
| <b>Volatility:</b>                     |                         |
| Boiling point at atmospheric pressure: | 108 °C                  |
| Vapour pressure at 20 °C:              | 3058 Pa                 |
| Vapour pressure at 50 °C:              | 15525.56 Pa (15.53 kPa) |
| Evaporation rate at 20 °C:             | Non-applicable *        |
| <b>Product description:</b>            |                         |
| Density at 20 °C:                      | Non-applicable *        |
| Relative density at 20 °C:             | 0.864 - 0.884           |
| Dynamic viscosity at 20 °C:            | Non-applicable *        |
| Kinematic viscosity at 20 °C:          | Non-applicable *        |

\*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)**

|  |                        |
|--|------------------------|
| Kinematic viscosity at 40 °C:                | >40 mm <sup>2</sup> /s |
| Concentration:                               | Non-applicable *       |
| pH:  | Non-applicable *       |
| Vapour density at 20 °C:                     | Non-applicable *       |
| Partition coefficient n-octanol/water 20 °C: | Non-applicable *       |
| Solubility in water at 20 °C:                | Non-applicable *       |
| Solubility properties:                       | Insoluble in water     |
| Decomposition temperature:                   | Non-applicable *       |
| Melting point/freezing point:                | Non-applicable *       |
| <b>Flammability:</b>                         |                        |
| Flash Point:                                 | ≥14 °C                 |
| Flammability (solid, gas):                   | Non-applicable *       |
| Autoignition temperature:                    | 287 °C                 |
| Lower flammability limit:                    | Not available          |
| Upper flammability limit:                    | Not available          |
| <b>Particle characteristics:</b>             |                        |
| Median equivalent diameter:                  | Non-applicable         |

**9.2 Other information:**

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

|  |                  |
|--|------------------|
| Explosive properties:  | Non-applicable * |
| Oxidising properties:  | Non-applicable * |
| Corrosive to metals:   | Non-applicable * |
| Heat of combustion:  | Non-applicable * |
| Aerosols-total percentage (by mass) of flammable components: | Non-applicable * |

**Other safety characteristics:**

|                           |                  |
|---------------------------|------------------|
| Surface tension at 20 °C: | Non-applicable * |
| Refraction index:         | Non-applicable * |

\*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.

**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:**

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**SECTION 10: STABILITY AND REACTIVITY (continued)**

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

Contains glycols. It is recommended not to breathe the vapours for prolonged periods of time due to the possibility of effects that are hazardous to the health.

**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):

- Acute toxicity : 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.
- Corrosivity/Irritability: Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Produces skin inflammation.
- Contact with the eyes: Produces eye damage after contact.

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.
- Mutagenicity: 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.
- Reproductive toxicity: 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.

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: 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.

F- Specific target organ toxicity (STOT) - single exposure:

Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.

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. Organs affected: All gross lesions and masses.
- 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:**

Non-applicable

**Specific toxicology information on the substances:**

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

| Identification              | Acute toxicity  |                 | Genus |
|-----------------------------|-----------------|-----------------|-------|
| 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   |
| Xylene<br>CAS: 1330-20-7    | LD50 oral       | 2100 mg/kg      | Rat   |
|                             | LD50 dermal     | 1100 mg/kg      | Rat   |
|                             | LC50 inhalation | 11 mg/L (4 h)   | Rat   |

**SECTION 12: ECOLOGICAL INFORMATION**

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

**12.1 Toxicity:**

**Acute toxicity:**

| Identification                        | Concentration              | Species                   | Genus      |
|---------------------------------------|----------------------------|---------------------------|------------|
| Xylene<br>CAS: 1330-20-7              | LC50 >10 - 100 mg/L (96 h) |                           | Fish       |
|                                       | EC50 >10 - 100 mg/L (48 h) |                           | Crustacean |
|                                       | EC50 >10 - 100 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      |
| 1-methoxy-2-propanol<br>CAS: 107-98-2 | LC50 20800 mg/L (96 h)     | Pimephales promelas       | Fish       |
|                                       | EC50 23300 mg/L (48 h)     | Daphnia magna             | Crustacean |
|                                       | EC50 1000 mg/L (168 h)     | Selenastrum capricornutum | Algae      |

**Chronic toxicity:**

| Identification           | Concentration  | Species             | Genus      |
|--------------------------|----------------|---------------------|------------|
| Xylene<br>CAS: 1330-20-7 | NOEC 1.3 mg/L  | Oncorhynchus mykiss | Fish       |
|                          | NOEC 1.17 mg/L | Ceriodaphnia dubia  | Crustacean |

**12.2 Persistence and degradability:**

**Substance-specific information:**

| Identification                        | Degradability |                | Biodegradability |                |
|---------------------------------------|---------------|----------------|------------------|----------------|
| Xylene<br>CAS: 1330-20-7              | BOD5          | Non-applicable | Concentration    | Non-applicable |
|                                       | COD           | Non-applicable | Period           | 28 days        |
|                                       | BOD5/COD      | Non-applicable | % Biodegradable  | 88 %           |
| 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 %           |
| 1-methoxy-2-propanol<br>CAS: 107-98-2 | BOD5          | Non-applicable | Concentration    | 100 mg/L       |
|                                       | COD           | Non-applicable | Period           | 28 days        |
|                                       | BOD5/COD      | Non-applicable | % Biodegradable  | 90 %           |

**12.3 Bioaccumulative potential:**

**Substance-specific information:**

| Identification                        | Bioaccumulation potential |       |
|---------------------------------------|---------------------------|-------|
| Xylene<br>CAS: 1330-20-7              | BCF                       | 9     |
|                                       | Pow Log                   | 2.77  |
|                                       | Potential                 | Low   |
| propan-2-ol<br>CAS: 67-63-0           | BCF                       | 3     |
|                                       | Pow Log                   | 0.05  |
|                                       | Potential                 | Low   |
| 1-methoxy-2-propanol<br>CAS: 107-98-2 | BCF                       | 3     |
|                                       | Pow Log                   | -0.44 |
|                                       | Potential                 | Low   |

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

**12.4 Mobility in soil:**

| Identification              | Absorption/desorption |                     | Volatility |                                 |
|-----------------------------|-----------------------|---------------------|------------|---------------------------------|
| Xylene<br>CAS: 1330-20-7    | Koc                   | 202                 | Henry      | 524.86 Pa·m <sup>3</sup> /mol   |
|                             | Conclusion            | Moderate            | Dry soil   | Yes                             |
|                             | Surface tension       | Non-applicable      | 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:**

**Type of waste:**

HP14 Ecotoxic, HP3 Flammable, HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity, HP6 Acute Toxicity, 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 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-dangerous 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 Regulations 2011.

**SECTION 14: TRANSPORT INFORMATION**

**Transport of dangerous goods by land:**

With regard to ADR 2023 and RID 2023:



|   |                                   |
|---|-----------------------------------|
| <b>14.1 UN number:</b>  | UN1993                            |
| <b>14.2 UN proper shipping name:</b>  | FLAMMABLE LIQUID, N.O.S. (Xylene) |
| <b>14.3 Transport hazard class(es):</b>   | 3                                 |
| <b>Labels:</b>  | 3                                 |
| <b>14.4 Packing group:</b>  | II                                |
| <b>14.5 Environmental hazards:</b>  | No                                |
| <b>14.6 Special precautions for user</b>  |                                   |
| Tunnel restriction code:  | D/E                               |
| Physico-Chemical properties:  | see section 9                     |
| Limited quantities:   | 1 L                               |
| <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:</b> | Non-applicable                    |

**Transport of dangerous goods by sea:**

With regard to IMDG 40-20:

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



|   |                                   |
|---|-----------------------------------|
| <b>14.1 UN number:</b>  | UN1993                            |
| <b>14.2 UN proper shipping name:</b>  | FLAMMABLE LIQUID, N.O.S. (Xylene) |
| <b>14.3 Transport hazard class(es):</b>   | 3                                 |
| Labels:   | 3                                 |
| <b>14.4 Packing group:</b>  | II                                |
| <b>14.5 Marine pollutant:</b>   | No                                |
| <b>14.6 Special precautions for user</b>  |                                   |
| Special regulations:  | 274                               |
| EmS Codes:  | F-E, S-E                          |
| Physico-Chemical properties:  | see section 9                     |
| Limited quantities:   | 1 L                               |
| Segregation group:  | Non-applicable                    |
| <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:</b> | Non-applicable                    |

**Transport of dangerous goods by air:**

With regard to IATA/ICAO 2023:



|   |                                   |
|---|-----------------------------------|
| <b>14.1 UN number:</b>  | UN1993                            |
| <b>14.2 UN proper shipping name:</b>  | FLAMMABLE LIQUID, N.O.S. (Xylene) |
| <b>14.3 Transport hazard class(es):</b>   | 3                                 |
| Labels:   | 3                                 |
| <b>14.4 Packing group:</b>  | II                                |
| <b>14.5 Environmental hazards:</b>  | No                                |
| <b>14.6 Special precautions for user</b>  |                                   |
| Physico-Chemical properties:  | see section 9                     |
| <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:</b> | Non-applicable                    |

**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): Non-applicable
- Substances listed in UK REACH Authorisation List (Annex 14): Non-applicable

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

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.

**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.

**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:**

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

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

H335: May cause respiratory irritation.

H315: Causes skin irritation.

H412: Harmful to aquatic life with long lasting effects.

H373: May cause damage to organs through prolonged or repeated exposure (Oral). Organs affected: All gross lesions and masses.

H332: Harmful if inhaled.

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:**

Acute Tox. 4: H312+H332 - Harmful in contact with skin or if inhaled.

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.

Flam. Liq. 3: H226 - Flammable liquid and vapour.

Skin Irrit. 2: H315 - Causes skin irritation.

STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure (Oral).

STOT SE 3: H335 - May cause respiratory irritation.

STOT SE 3: H336 - May cause drowsiness or dizziness.

**Classification procedure:**

Eye Irrit. 2: Calculation method

STOT SE 3: Calculation method

STOT SE 3: Calculation method

Skin Irrit. 2: Calculation method

Aquatic Chronic 3: Calculation method

STOT RE 2: Calculation method

Acute Tox. 4: 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: Octanolwater partition coefficient

Koc: Partition coefficient of organic carbon

UFI: unique formula identifier

IARC: International Agency for Research on Cancer

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at UK, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

- END OF SAFETY DATA SHEET -