

**ACL.001(B)**  
**AndSeal DPM Part B**

Printing: 23/09/2022

Date of compilation: 07/05/2020


Revised: 02/04/2022

Version: 5 (Replaced 4)

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

- 1.1 Product identifier:** ACL.001(B)  
AndSeal DPM Part B
- Other means of identification:**  
Non-applicable
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**  
Relevant uses: Resin. 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:**  
Andrew Coatings Limited  
Carver Building Littles Lane  
WV1 1JY Wolverhampton - United Kingdom  
Phone: +44 (0) 1902 429190  
info@andrewscoatings.co.uk  
www.andrewscoatings.co.uk
- 1.4 Emergency telephone number:** +44 (0) 1902 429190

**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 toxicity, Category 4, H302+H332  
Eye Dam. 1: Serious eye damage, Category 1, H318  
Repr. 1B: Reproductive toxicity, Category 1B, H360F  
Skin Corr. 1B: Skin corrosion, Category 1B, H314  
Skin Sens. 1A: Sensitisation, skin, Category 1A, H317
- 2.2 Label elements:**
- GB CLP Regulation:**  
**Danger**
- 
- Hazard statements:**  
Acute Tox. 4: H302+H332 - Harmful if swallowed or if inhaled.  
Repr. 1B: H360F - May damage fertility.  
Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.  
Skin Sens. 1A: H317 - May cause an allergic skin reaction.
- Precautionary statements:**  
P264: Wash hands thoroughly after handling.  
P280: Wear protective gloves/protective clothing/eye protection.  
P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
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.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308+P313: IF exposed or concerned: Get medical advice/attention.  
P501: Dispose of the contents and/or its container in line with regulations on dangerous waste or packaging and waste packaging respectively.
- Supplementary information:**  
EUH071: Corrosive to the respiratory tract.
- Substances that contribute to the classification**  
benzyl alcohol; 3-aminomethyl-3,5,5-trimethylcyclohexylamine; m-phenylenebis(methylamine); 3-aminopropyltrimethylamine; Bisphenol A; 2,4,6-tris(dimethylaminomethyl)phenol; 3-aminopropyltriethoxysilane

- CONTINUED ON NEXT PAGE -

**ACL.001(B)**  
**AndSeal DPM Part B**

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

**2.3 Other hazards:**

Product fails to meet PBT/vPvB criteria

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

**3.1 Substance:**















Non-applicable

**3.2 Mixture:**

**Chemical description:** Formulated polyamines

**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: 100-51-6  | <b>benzyl alcohol</b><br>Acute Tox. 4: H302+H332 - Warning   | <b>25 - &lt;50 %</b> |
| CAS: 2855-13-2 | <b>3-aminomethyl-3,5,5-trimethylcyclohexylamine</b><br>Acute Tox. 4: H302; Eye Dam. 1: H318; Skin Corr. 1B: H314; Skin Sens. 1A: H317 - Danger    | <b>10 - &lt;15 %</b> |
| CAS: 1477-55-0 | <b>m-phenylenebis(methylamine)</b><br>Acute Tox. 4: H302+H332; Aquatic Chronic 3: H412; Eye Dam. 1: H318; Skin Corr. 1B: H314; Skin Sens. 1B: H317; EUH071 - Danger     | <b>10 - &lt;15 %</b> |
| CAS: 80-05-7   | <b>Bisphenol A</b><br>Eye Dam. 1: H318; Repr. 1B: H360F; Skin Sens. 1: H317; STOT SE 3: H335 - Danger                            | <b>10 - &lt;15 %</b> |
| CAS: 90-72-2   | <b>2,4,6-tris(dimethylaminomethyl)phenol</b><br>Eye Dam. 1: H318; Skin Corr. 1C: H314 - Danger   | <b>10 - &lt;15 %</b> |
| CAS: 109-55-7  | <b>3-aminopropyldimethylamine</b><br>Acute Tox. 4: H302; Flam. Liq. 3: H226; Skin Corr. 1B: H314; Skin Sens. 1: H317 - Danger    | <b>10 - &lt;15 %</b> |
| CAS: 919-30-2  | <b>3-aminopropyltriethoxysilane</b><br>Acute Tox. 4: H302; Skin Corr. 1B: H314; Skin Sens. 1: H317 - Danger     | <b>1 - &lt;3 %</b>   |

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

**Other information:**

| Identification   | Specific concentration limit          |
|--|---------------------------------------|
| 3-aminomethyl-3,5,5-trimethylcyclohexylamine<br>CAS: 2855-13-2 | % (w/w) >=0.001; Skin Sens. 1A - H317 |

**SECTION 4: FIRST AID MEASURES**

**4.1 Description of first aid measures:**

Request medical assistance immediately, 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.

- CONTINUED ON NEXT PAGE -

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**AndSeal DPM Part B**

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

**By ingestion/aspiration:**

Request immediate medical assistance, showing the SDS of this product. Do not induce vomiting, because its expulsion from the stomach can be hazardous to the mucus of the main digestive tract, and also risk damage to the respiratory system through inhalation. Rinse out the mouth and throat, as they may have been affected during ingestion. In the case of loss of consciousness do not administer anything orally unless supervised by a doctor. Keep the person affected at rest.

**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:**

Product is non-flammable under normal conditions of storage, manipulation and use, but the product contains flammable substances. In the case of inflammation as a result of improper manipulation, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.

**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:**

This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground water.

**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.

- CONTINUED ON NEXT PAGE -

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**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 with regards manually handling weights. Maintain order, cleanliness and destroy using safe methods (section 6).

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

Avoid the evaporation of the product as it contains flammable substances, which could form flammable vapour/air mixtures in the presence of sources of ignition. Control sources of ignition (mobile phones, sparks,...) and transfer at slow speeds to avoid the creation of electrostatic charges. 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

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

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

A.- Technical measures for storage

Minimum Temp.: 2 °C  
Maximum Temp.: 35 °C  
Maximum time: 24 Months

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 |  |                     |
|-----------------------------|------------------------------|--|---------------------|
|                             | WEL (8h)                     |  | 2 mg/m <sup>3</sup> |
| Bisphenol A<br>CAS: 80-05-7 | WEL (15 min)                 |  |                     |

**DNEL (Workers):**

| Identification  |            | Short exposure        |                     | Long exposure         |                         |
|---|------------|-----------------------|---------------------|-----------------------|-------------------------|
|   |            | Systemic              | Local               | Systemic              | Local                   |
| benzyl alcohol<br>CAS: 100-51-6<br>EC: 202-859-9                                | Oral       | Non-applicable        | Non-applicable      | Non-applicable        | Non-applicable          |
|   | Dermal     | 40 mg/kg              | Non-applicable      | 8 mg/kg               | Non-applicable          |
|   | Inhalation | 110 mg/m <sup>3</sup> | Non-applicable      | 22 mg/m <sup>3</sup>  | Non-applicable          |
| 3-aminomethyl-3,5,5-trimethylcyclohexylamine<br>CAS: 2855-13-2<br>EC: 220-666-8 | Oral       | Non-applicable        | Non-applicable      | Non-applicable        | Non-applicable          |
|   | Dermal     | Non-applicable        | Non-applicable      | Non-applicable        | Non-applicable          |
|   | Inhalation | Non-applicable        | Non-applicable      | Non-applicable        | 0.073 mg/m <sup>3</sup> |
| m-phenylenebis(methylamine)<br>CAS: 1477-55-0<br>EC: 216-032-5                  | Oral       | Non-applicable        | Non-applicable      | Non-applicable        | Non-applicable          |
|   | Dermal     | Non-applicable        | Non-applicable      | 0.33 mg/kg            | Non-applicable          |
|   | Inhalation | Non-applicable        | Non-applicable      | 1.2 mg/m <sup>3</sup> | 0.2 mg/m <sup>3</sup>   |
| Bisphenol A<br>CAS: 80-05-7<br>EC: 201-245-8                                    | Oral       | Non-applicable        | Non-applicable      | Non-applicable        | Non-applicable          |
|   | Dermal     | 0.031 mg/kg           | Non-applicable      | 0.031 mg/kg           | Non-applicable          |
|   | Inhalation | 2 mg/m <sup>3</sup>   | 2 mg/m <sup>3</sup> | 2 mg/m <sup>3</sup>   | 2 mg/m <sup>3</sup>     |

- CONTINUED ON NEXT PAGE -

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

| Identification   |            | Short exposure |                | Long exposure          |                |
|--|------------|----------------|----------------|------------------------|----------------|
|  |            | Systemic       | Local          | Systemic               | Local          |
| 2,4,6-tris(dimethylaminomethyl)phenol<br>CAS: 90-72-2<br>EC: 202-013-9 | Oral       | Non-applicable | Non-applicable | Non-applicable         | Non-applicable |
|  | Dermal     | Non-applicable | Non-applicable | 0.15 mg/kg             | Non-applicable |
|  | Inhalation | Non-applicable | Non-applicable | 0.53 mg/m <sup>3</sup> | Non-applicable |
| 3-aminopropylidimethylamine<br>CAS: 109-55-7<br>EC: 203-680-9          | Oral       | Non-applicable | Non-applicable | Non-applicable         | Non-applicable |
|  | Dermal     | Non-applicable | Non-applicable | Non-applicable         | Non-applicable |
|  | Inhalation | Non-applicable | Non-applicable | 1.2 mg/m <sup>3</sup>  | Non-applicable |
| 3-aminopropyltriethoxysilane<br>CAS: 919-30-2<br>EC: 213-048-4         | Oral       | Non-applicable | Non-applicable | Non-applicable         | Non-applicable |
|  | Dermal     | Non-applicable | Non-applicable | 2 mg/kg                | Non-applicable |
|  | Inhalation | Non-applicable | Non-applicable | 14 mg/m <sup>3</sup>   | Non-applicable |

**DNEL (General population):**

| Identification  |            | Short exposure       |                     | Long exposure          |                     |
|---|------------|----------------------|---------------------|------------------------|---------------------|
|   |            | Systemic             | Local               | Systemic               | Local               |
| benzyl alcohol<br>CAS: 100-51-6<br>EC: 202-859-9                                | Oral       | 20 mg/kg             | Non-applicable      | 4 mg/kg                | Non-applicable      |
|   | Dermal     | 20 mg/kg             | Non-applicable      | 4 mg/kg                | Non-applicable      |
|   | Inhalation | 27 mg/m <sup>3</sup> | Non-applicable      | 5.4 mg/m <sup>3</sup>  | Non-applicable      |
| 3-aminomethyl-3,5,5-trimethylcyclohexylamine<br>CAS: 2855-13-2<br>EC: 220-666-8 | Oral       | Non-applicable       | Non-applicable      | 0.526 mg/kg            | Non-applicable      |
|   | Dermal     | Non-applicable       | Non-applicable      | Non-applicable         | Non-applicable      |
|   | Inhalation | Non-applicable       | Non-applicable      | Non-applicable         | Non-applicable      |
| Bisphenol A<br>CAS: 80-05-7<br>EC: 201-245-8                                    | Oral       | 0.004 mg/kg          | Non-applicable      | 0.004 mg/kg            | Non-applicable      |
|   | Dermal     | 0.002 mg/kg          | Non-applicable      | 0.002 mg/kg            | Non-applicable      |
|   | Inhalation | 1 mg/m <sup>3</sup>  | 1 mg/m <sup>3</sup> | 1 mg/m <sup>3</sup>    | 1 mg/m <sup>3</sup> |
| 2,4,6-tris(dimethylaminomethyl)phenol<br>CAS: 90-72-2<br>EC: 202-013-9          | Oral       | Non-applicable       | Non-applicable      | 0.075 mg/kg            | Non-applicable      |
|   | Dermal     | Non-applicable       | Non-applicable      | 0.075 mg/kg            | Non-applicable      |
|   | Inhalation | Non-applicable       | Non-applicable      | 0.13 mg/m <sup>3</sup> | Non-applicable      |
| 3-aminopropyltriethoxysilane<br>CAS: 919-30-2<br>EC: 213-048-4                  | Oral       | Non-applicable       | Non-applicable      | 1 mg/kg                | Non-applicable      |
|   | Dermal     | Non-applicable       | Non-applicable      | 1 mg/kg                | Non-applicable      |
|   | Inhalation | Non-applicable       | Non-applicable      | 3.5 mg/m <sup>3</sup>  | Non-applicable      |

**PNEC:**

| Identification  |              |                |                         |             |
|---|--------------|----------------|-------------------------|-------------|
|   |              |                |                         |             |
| benzyl alcohol<br>CAS: 100-51-6<br>EC: 202-859-9                                | STP          | 39 mg/L        | Fresh water             | 1 mg/L      |
|   | Soil         | 0.456 mg/kg    | Marine water            | 0.1 mg/L    |
|   | Intermittent | 2.3 mg/L       | Sediment (Fresh water)  | 5.27 mg/kg  |
|   | Oral         | Non-applicable | Sediment (Marine water) | 0.527 mg/kg |
| 3-aminomethyl-3,5,5-trimethylcyclohexylamine<br>CAS: 2855-13-2<br>EC: 220-666-8 | STP          | 3.18 mg/L      | Fresh water             | 0.06 mg/L   |
|   | Soil         | 1.121 mg/kg    | Marine water            | 0.006 mg/L  |
|   | Intermittent | 0.23 mg/L      | Sediment (Fresh water)  | 5.784 mg/kg |
|   | Oral         | Non-applicable | Sediment (Marine water) | 0.578 mg/kg |
| m-phenylenebis(methylamine)<br>CAS: 1477-55-0<br>EC: 216-032-5                  | STP          | 10 mg/L        | Fresh water             | 0.094 mg/L  |
|   | Soil         | 2.44 mg/kg     | Marine water            | 0.009 mg/L  |
|   | Intermittent | 0.152 mg/L     | Sediment (Fresh water)  | 12.4 mg/kg  |
|   | Oral         | Non-applicable | Sediment (Marine water) | 1.24 mg/kg  |
| Bisphenol A<br>CAS: 80-05-7<br>EC: 201-245-8                                    | STP          | 320 mg/L       | Fresh water             | 0.018 mg/L  |
|   | Soil         | 3.7 mg/kg      | Marine water            | 0.018 mg/L  |
|   | Intermittent | 0.011 mg/L     | Sediment (Fresh water)  | 1.2 mg/kg   |
|   | Oral         | Non-applicable | Sediment (Marine water) | 0.24 mg/kg  |
| 2,4,6-tris(dimethylaminomethyl)phenol<br>CAS: 90-72-2<br>EC: 202-013-9          | STP          | 0.2 mg/L       | Fresh water             | 0.046 mg/L  |
|   | Soil         | 0.025 mg/kg    | Marine water            | 0.005 mg/L  |
|   | Intermittent | 0.46 mg/L      | Sediment (Fresh water)  | 0.262 mg/kg |
|   | Oral         | Non-applicable | Sediment (Marine water) | 0.026 mg/kg |

- CONTINUED ON NEXT PAGE -

**ACL.001(B)**  
**AndSeal DPM Part B**

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


| Identification   |              |                |                         |                |
|--|--------------|----------------|-------------------------|----------------|
| 3-aminopropylidimethylamine<br>CAS: 109-55-7<br>EC: 203-680-9  | STP          | 10 mg/L        | Fresh water             | 0.073 mg/L     |
|  | Soil         | 0.104 mg/kg    | Marine water            | 0.007 mg/L     |
|  | Intermittent | 0.34 mg/L      | Sediment (Fresh water)  | 0.735 mg/kg    |
|  | Oral         | Non-applicable | Sediment (Marine water) | 0.073 mg/kg    |
| 3-aminopropyltriethoxysilane<br>CAS: 919-30-2<br>EC: 213-048-4 | STP          | 1.3 mg/L       | Fresh water             | Non-applicable |
|  | Soil         | Non-applicable | Marine water            | Non-applicable |
|  | Intermittent | Non-applicable | Sediment (Fresh water)  | Non-applicable |
|  | Oral         | Non-applicable | Sediment (Marine water) | Non-applicable |

**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 | 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 | NON-disposable chemical protective gloves | The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. Do not use protective creams after the product has come into contact with skin. |

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 | For professional use only. Clean periodically according to the manufacturer's instructions. |
| <br>Mandatory foot protection          | Safety footwear for protection against chemical risk      | Replace boots at any sign of deterioration.   |

**F.- Additional emergency measures**

- CONTINUED ON NEXT PAGE -

**ACL.001(B)**  
**AndSeal DPM Part B**



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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

**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:              | Fluid            |
| Colour:                  | Light yellow     |
| Odour:                   | Aminic           |
| Odour threshold:         | Non-applicable * |

**Volatility:**

|  |                      |
|--|----------------------|
| Boiling point at atmospheric pressure: | ca. 135 °C           |
| Vapour pressure at 20 °C:              | 7 Pa                 |
| Vapour pressure at 50 °C:              | 412.09 Pa (0.41 kPa) |
| Evaporation rate at 20 °C:             | Non-applicable *     |

**Product description:**

|  |                           |
|--|---------------------------|
| Density at 20 °C:                            | 1020 kg/m <sup>3</sup>    |
| Relative density at 20 °C:                   | 1.01 - 1.03               |
| Dynamic viscosity at 20 °C:                  | 1000 cP                   |
| Kinematic viscosity at 20 °C:                | 416.51 mm <sup>2</sup> /s |
| Kinematic viscosity at 40 °C:                | Non-applicable *          |
| 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:                       | Immiscible                |
| Decomposition temperature:                   | Non-applicable *          |
| Melting point/freezing point:                | Non-applicable *          |

**Flammability:**

|                            |                  |
|----------------------------|------------------|
| Flash Point:               | >100 °C          |
| Flammability (solid, gas): | Non-applicable * |
| Autoignition temperature:  | 380 °C           |
| Lower flammability limit:  | 1.3 % Volume     |
| Upper flammability limit:  | 13 % Volume      |

**Particle characteristics:**

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

- CONTINUED ON NEXT PAGE -

**ACL.001(B)**  
**AndSeal DPM Part B**

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

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   | Precaution              | Precaution | Not applicable |

**10.5 Incompatible materials:**

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

**10.6 Hazardous decomposition products:**

Contains substances which require external energy for spontaneous decomposition. Form explosive peroxides when distilled, evaporated or otherwise concentrated.

**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 : The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.
- Corrosivity/Irritability: Corrosive product, if it is swallowed causes burns destroying the tissues. For more information about secondary effects from skin contact see section 2.

B- Inhalation (acute effect):

- CONTINUED ON NEXT PAGE -



**ACL.001(B)**  
**AndSeal DPM Part B**

Printing: 23/09/2022

Date of compilation: 07/05/2020

Revised: 02/04/2022

Version: 5 (Replaced 4)

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

- 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: Prolonged inhalation of the product is corrosive to mucous membranes and the upper respiratory tract
- C- Contact with the skin and the eyes (acute effect):
  - Contact with the skin: Above all, skin contact may occur as fabrics of all thicknesses can be destroyed, resulting in burns. For more information on the secondary effects see section 2.
  - Contact with the eyes: Produces serious 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.  
IARC: Non-applicable
  - 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: May impair fertility
- 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:
 

Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.
- G- Specific target organ toxicity (STOT)-repeated exposure:
  - Specific target organ toxicity (STOT)-repeated exposure: 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.
  - 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, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

**Other information:**

Non-applicable

**Specific toxicology information on the substances:**

| Identification   | Acute toxicity  |                | Genus  |
|--|-----------------|----------------|--------|
|  | LD50 oral       | LD50 dermal    |        |
| benzyl alcohol<br>CAS: 100-51-6                                | LD50 oral       | 500 mg/kg      | Rat    |
|  | LD50 dermal     | 2500 mg/kg     |        |
|  | LC50 inhalation | 11 mg/L (ATEi) |        |
| 3-aminomethyl-3,5,5-trimethylcyclohexylamine<br>CAS: 2855-13-2 | LD50 oral       | 1030 mg/kg     | Rat    |
|  | LD50 dermal     | >5000 mg/kg    |        |
|  | LC50 inhalation | >20 mg/L       |        |
| m-phenylenebis(methylamine)<br>CAS: 1477-55-0                  | LD50 oral       | 1090 mg/kg     | Rat    |
|  | LD50 dermal     | >5000 mg/kg    |        |
|  | LC50 inhalation | 11 mg/L (ATEi) |        |
| Bisphenol A<br>CAS: 80-05-7                                    | LD50 oral       | 5100 mg/kg     | Rat    |
|  | LD50 dermal     | 3000 mg/kg     | Rabbit |
|  | LC50 inhalation | >5 mg/L        |        |
| 2,4,6-tris(dimethylaminomethyl)phenol<br>CAS: 90-72-2          | LD50 oral       | 2169 mg/kg     | Rat    |
|  | LD50 dermal     | >5000 mg/kg    |        |
|  | LC50 inhalation | >20 mg/L       |        |
| 3-aminopropyl(dimethylamine)<br>CAS: 109-55-7                  | LD50 oral       | 1870 mg/kg     | Rat    |
|  | LD50 dermal     | >5000 mg/kg    |        |
|  | LC50 inhalation | >20 mg/L       |        |

- CONTINUED ON NEXT PAGE -

**ACL.001(B)**  
**AndSeal DPM Part B**

Printing: 23/09/2022

Date of compilation: 07/05/2020

Revised: 02/04/2022

Version: 5 (Replaced 4)

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

| Identification                                | Acute toxicity |             | Genus  |
|---|----------------|-------------|--------|
|   | LD50 oral      | LD50 dermal |        |
| 3-aminopropyltriethoxysilane<br>CAS: 919-30-2 | 1491 mg/kg     | 4000 mg/kg  | Rat    |
|   | >20 mg/L       |             | Rabbit |
|   |                |             |        |

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

| ATE mix    |                                       | Ingredient(s) of unknown toxicity |
|------------|---------------------------------------|-----------------------------------|
| Oral       | 827.08 mg/kg (Calculation method)     | 0 %                               |
| Dermal     | >5000 mg/kg (Calculation method)      | Non-applicable                    |
| Inhalation | 19.13 mg/L (4 h) (Calculation method) | 0 %                               |

**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      |
|--|------------------|------------------|---------------------------|------------|
|  | LC50             | EC50             |                           |            |
| benzyl alcohol<br>CAS: 100-51-6                                | 646 mg/L (48 h)  | 400 mg/L (24 h)  | Leuciscus idus            | Fish       |
|  | 79 mg/L (3 h)    |                  | Daphnia magna             | Crustacean |
|  |                  |                  | Scenedesmus subspicatus   | Algae      |
| 3-aminomethyl-3,5,5-trimethylcyclohexylamine<br>CAS: 2855-13-2 | 110 mg/L (96 h)  | 388 mg/L (48 h)  | Leuciscus idus            | Fish       |
|  | Non-applicable   |                  | N/A                       | Crustacean |
|  |                  |                  |                           |            |
| m-phenylenebis(methylamine)<br>CAS: 1477-55-0                  | 88 mg/L (96 h)   | 15 mg/L (48 h)   | Oryzias latipes           | Fish       |
|  | 20 mg/L (72 h)   |                  | Daphnia magna             | Crustacean |
|  |                  |                  | Selenastrum capricornutum | Algae      |
| Bisphenol A<br>CAS: 80-05-7                                    | 4.6 mg/L (96 h)  | 3.8 mg/L (48 h)  | Pimephales promelas       | Fish       |
|  | Non-applicable   |                  | Daphnia magna             | Crustacean |
|  |                  |                  |                           |            |
| 3-aminopropyltrimethylamine<br>CAS: 109-55-7                   | 122 mg/L (96 h)  | 68.3 mg/L (24 h) | Leuciscus idus            | Fish       |
|  | 56.2 mg/L (72 h) |                  | Daphnia magna             | Crustacean |
|  |                  |                  | Scenedesmus subspicatus   | Algae      |
| 3-aminopropyltriethoxysilane<br>CAS: 919-30-2                  | 934 mg/L (96 h)  | 331 mg/L (48 h)  | Danio rerio               | Fish       |
|  | 603 mg/L (72 h)  |                  | N/A                       | Crustacean |
|  |                  |                  | Desmodesmus subspicatus   | Algae      |

**Chronic toxicity:**

| Identification   | Concentration  |           | Species             | Genus      |
|--|----------------|-----------|---------------------|------------|
|  | NOEC           | EC50      |                     |            |
| benzyl alcohol<br>CAS: 100-51-6                                | 48.897 mg/L    | 51 mg/L   | N/A                 | Fish       |
|  |                |           | Daphnia magna       | Crustacean |
| 3-aminomethyl-3,5,5-trimethylcyclohexylamine<br>CAS: 2855-13-2 | Non-applicable | 3 mg/L    |                     |            |
|  |                |           | Daphnia magna       | Crustacean |
| m-phenylenebis(methylamine)<br>CAS: 1477-55-0                  | Non-applicable | 4.7 mg/L  |                     |            |
|  |                |           | Daphnia magna       | Crustacean |
| Bisphenol A<br>CAS: 80-05-7                                    | 0.16 mg/L      | 3.16 mg/L | Pimephales promelas | Fish       |
|  |                |           | Daphnia magna       | Crustacean |
| 3-aminopropyltrimethylamine<br>CAS: 109-55-7                   | Non-applicable | 3.64 mg/L |                     |            |
|  |                |           | Daphnia magna       | Crustacean |

**12.2 Persistence and degradability:**

**Substance-specific information:**

- CONTINUED ON NEXT PAGE -

**ACL.001(B)**  
**AndSeal DPM Part B**

Printing: 23/09/2022

Date of compilation: 07/05/2020

Revised: 02/04/2022

Version: 5 (Replaced 4)

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

| Identification   | Degradability |                | Biodegradability |                |
|--|---------------|----------------|------------------|----------------|
|  | Parameter     | Value          | Parameter        | Value          |
| benzyl alcohol<br>CAS: 100-51-6                                | BOD5          | Non-applicable | Concentration    | 100 mg/L       |
|  | COD           | Non-applicable | Period           | 14 days        |
|  | BOD5/COD      | Non-applicable | % Biodegradable  | 94 %           |
| 3-aminomethyl-3,5,5-trimethylcyclohexylamine<br>CAS: 2855-13-2 | BOD5          | Non-applicable | Concentration    | 7 mg/L         |
|  | COD           | Non-applicable | Period           | 28 days        |
|  | BOD5/COD      | Non-applicable | % Biodegradable  | 8 %            |
| m-phenylenebis(methylamine)<br>CAS: 1477-55-0                  | BOD5          | Non-applicable | Concentration    | 14 mg/L        |
|  | COD           | Non-applicable | Period           | 28 days        |
|  | BOD5/COD      | Non-applicable | % Biodegradable  | 49 %           |
| Bisphenol A<br>CAS: 80-05-7                                    | BOD5          | Non-applicable | Concentration    | 100 mg/L       |
|  | COD           | Non-applicable | Period           | 14 days        |
|  | BOD5/COD      | Non-applicable | % Biodegradable  | 0 %            |
| 3-aminopropyltriethoxysilane<br>CAS: 919-30-2                  | BOD5          | Non-applicable | Concentration    | Non-applicable |
|  | COD           | Non-applicable | Period           | 28 days        |
|  | BOD5/COD      | Non-applicable | % Biodegradable  | 67 %           |

**12.3 Bioaccumulative potential:**

**Substance-specific information:**

| Identification  | Bioaccumulation potential |          |
|---|---------------------------|----------|
|   | Parameter                 | Value    |
| benzyl alcohol<br>CAS: 100-51-6                       | BCF                       | 0.3      |
|   | Pow Log                   | 1.1      |
|   | Potential                 | Low      |
| m-phenylenebis(methylamine)<br>CAS: 1477-55-0         | BCF                       | 3        |
|   | Pow Log                   | 0.18     |
|   | Potential                 | Low      |
| Bisphenol A<br>CAS: 80-05-7                           | BCF                       | 67       |
|   | Pow Log                   | 3.32     |
|   | Potential                 | Moderate |
| 2,4,6-tris(dimethylaminomethyl)phenol<br>CAS: 90-72-2 | BCF                       |          |
|   | Pow Log                   | 0.22     |
|   | Potential                 |          |

**12.4 Mobility in soil:**

| Identification   | Absorption/desorption |                         | Volatility |                                 |
|--|-----------------------|-------------------------|------------|---------------------------------|
|  | Parameter             | Value                   | Parameter  | Value                           |
| benzyl alcohol<br>CAS: 100-51-6                                | Koc                   | Non-applicable          | Henry      | Non-applicable                  |
|  | Conclusion            | Non-applicable          | Dry soil   | Non-applicable                  |
|  | Surface tension       | 3.679E-2 N/m (25 °C)    | Moist soil | Non-applicable                  |
| 3-aminomethyl-3,5,5-trimethylcyclohexylamine<br>CAS: 2855-13-2 | Koc                   | 928                     | Henry      | 4.46E-4 Pa·m <sup>3</sup> /mol  |
|  | Conclusion            | Low                     | Dry soil   | No                              |
|  | Surface tension       | Non-applicable          | Moist soil | No                              |
| m-phenylenebis(methylamine)<br>CAS: 1477-55-0                  | Koc                   | 1300                    | Henry      | Non-applicable                  |
|  | Conclusion            | Low                     | Dry soil   | Non-applicable                  |
|  | Surface tension       | Non-applicable          | Moist soil | Non-applicable                  |
| Bisphenol A<br>CAS: 80-05-7                                    | Koc                   | 796                     | Henry      | 1.013E-6 Pa·m <sup>3</sup> /mol |
|  | Conclusion            | Low                     | Dry soil   | No                              |
|  | Surface tension       | 3.76E-3 N/m (364.43 °C) | Moist soil | No                              |

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

Product fails to meet PBT/vPvB criteria

**12.6 Other adverse effects:**

Not described

- CONTINUED ON NEXT PAGE -

**ACL.001(B)**  
**AndSeal DPM Part B**

Printing: 23/09/2022

Date of compilation: 07/05/2020

Revised: 02/04/2022

Version: 5 (Replaced 4)

**SECTION 13: DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods:**

| Code      | Description   | Waste class |
|-----------|---|-------------|
| 20 01 27* | paint, inks, adhesives and resins containing hazardous substances | Dangerous   |

**Type of waste:**

HP14 Ecotoxic, HP6 Acute Toxicity, HP10 Toxic for reproduction, HP13 Sensitising, HP8 Corrosive

**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 2021 and RID 2021:



- 14.1 UN number:** UN2735  
**14.2 UN proper shipping name:** POLYAMINES, LIQUID, CORROSIVE, N.O.S. (3-aminomethyl-3,5,5-trimethylcyclohexylamine)  
**14.3 Transport hazard class(es):** 8  
**Labels:** 8  
**14.4 Packing group:** II  
**14.5 Environmental hazards:** No  
**14.6 Special precautions for user**  
Tunnel restriction code: 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:** Non-applicable

**Transport of dangerous goods by sea:**

With regard to IMDG 40-20:



- 14.1 UN number:** UN2735  
**14.2 UN proper shipping name:** POLYAMINES, LIQUID, CORROSIVE, N.O.S. (3-aminomethyl-3,5,5-trimethylcyclohexylamine)  
**14.3 Transport hazard class(es):** 8  
**Labels:** 8  
**14.4 Packing group:** II  
**14.5 Marine pollutant:** No  
**14.6 Special precautions for user**  
Special regulations: 274  
EmS Codes: F-A, S-B  
Physico-Chemical properties: see section 9  
Limited quantities: 1 L  
Segregation group: SGG18  
**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:** Non-applicable

**Transport of dangerous goods by air:**

With regard to IATA/ICAO 2022:

- CONTINUED ON NEXT PAGE -

**ACL.001(B)**  
**AndSeal DPM Part B**

Printing: 23/09/2022

Date of compilation: 07/05/2020

Revised: 02/04/2022

Version: 5 (Replaced 4)

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



|   |  |
|---|--|
| <b>14.1 UN number:</b>  | UN2735   |
| <b>14.2 UN proper shipping name:</b>  | POLYAMINES, LIQUID, CORROSIVE, N.O.S. (3-aminomethyl-3,5,5-trimethylcyclohexylamine) |
| <b>14.3 Transport hazard class(es):</b>   | 8  |
| Labels:   | 8  |
| <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): *Bisphenol A (80-05-7)*
- Substances listed in UK REACH Authorisation List (Annex 14): Non-applicable

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

Non-applicable

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

Product classified hazardous under the CMR. Sale and distribution to the general public is prohibited. Due to its CMR category, it is essential to apply the specific measures for workplace hazard prevention covered in articles 4 and 5 of the 2004/37/EC Directive and later modifications.

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 Bisphenol A. Shall not be placed on the market in thermal paper in a concentration equal to or greater than 0,02 % by weight after 2 January 2020.

**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:**

H314: Causes severe skin burns and eye damage.

H318: Causes serious eye damage.

H317: May cause an allergic skin reaction.

H360F: May damage fertility.

H302+H332: Harmful if swallowed or if inhaled.

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

- CONTINUED ON NEXT PAGE -

**ACL.001(B)**  
**AndSeal DPM Part B**

Printing: 23/09/2022

Date of compilation: 07/05/2020

Revised: 02/04/2022

Version: 5 (Replaced 4)

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

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: H302 - Harmful if swallowed.

Acute Tox. 4: H302+H332 - Harmful if swallowed or if inhaled.

Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.

Eye Dam. 1: H318 - Causes serious eye damage.

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

Repr. 1B: H360F - May damage fertility.

Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.

Skin Corr. 1C: H314 - Causes severe skin burns and eye damage.

Skin Sens. 1: H317 - May cause an allergic skin reaction.

Skin Sens. 1A: H317 - May cause an allergic skin reaction.

Skin Sens. 1B: H317 - May cause an allergic skin reaction.

STOT SE 3: H335 - May cause respiratory irritation.

**Classification procedure:**

Skin Corr. 1B: Calculation method

Eye Dam. 1: Calculation method

Skin Sens. 1A: Calculation method

Repr. 1B: Calculation method

Acute Tox. 4: Calculation method

**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 -