SAFETY DATA SHEET

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

1.1 Product identifier
- Product name: AMERLOCK SEALER CURE
- Product code: AK-0B/5D
- Other means of identification: Not available.

1.2 Relevant identified uses of the substance or mixture and uses advised against
- Product use: Industrial applications.
- Use of the substance/mixture: Coating.
- Uses advised against: Product is not intended, labelled or packaged for consumer use.

1.3 Details of the supplier of the safety data sheet
- PPG France Business Support SAS, 3, ZAE "Les Dix Muids", B.P. 89, 59583 Marly Cedex, France, 33 (0)3 27 19 35 00
- Technical contact: Product Compliance EMEA
- Tel: +33 (0)3 27 19 35 00
- e-mail address of person responsible for this SDS: EurMsdsContact@ppg.com

National contact
- PPG Architectural Coatings UK Ltd, Huddersfield Road, Birstall, West Yorkshire WF17 9XA, Tel: +44 (0) 1924 354000

1.4 Emergency telephone number
- Supplier
  - +33 (0)3 27 19 35 00 (0800-1700)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
- Product definition: Mixture
- Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]
  - Acute Tox. 4, H302
  - Acute Tox. 4, H332
  - Skin Corr. 1B, H314
  - Eye Dam. 1, H318
  - Skin Sens. 1, H317
  - Carc. 2, H351
  - Aquatic Chronic 2, H411

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

See Section 16 for the full text of the H statements declared above.

SECTION 2: Hazards identification

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms

![Pictograms]

Signal word: Danger

Hazard statements:
Harmful if swallowed or if inhaled. Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause respiratory irritation. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention: Wear protective gloves, protective clothing and eye or face protection. Avoid release to the environment. Do not breathe vapour.

Response: Collect spillage. IF INHALED: Immediately call a POISON CENTER or doctor.

Storage: Store in a well-ventilated place. Keep container tightly closed.

Disposal: Not applicable.

Hazardous ingredients:
furfuryl alcohol
Poly[oxy(methyl-1,2-ethanediyl)], α-(2-aminomethyl ethyl)-ω-(2-aminomethylethoxy)-Formaldehyde, polymer with benzenamine, hydrogenated 2,4,6-tris(dimethylaminomethyl)phenol 3,6-diazaoctanethylenediamin 4,4'-methylenebis(cyclohexylamine)

Supplemental label elements

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

Special packaging requirements

Containers to be fitted with child-resistant fastenings: Not applicable.

Tactile warning of danger: Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do not result in classification:
Causes digestive tract burns. Prolonged or repeated contact may dry skin and cause irritation. Contains a substance that may emit formaldehyde if stored beyond its shelf life and/or during cure at curing temperatures greater than 60C/140F.
## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Identifiers</th>
<th>% by weight</th>
<th>Classification</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poly[oxy(methyl-1,2-ethanediyl)], α-(2-aminomethylethyl)-ω-(2-aminomethylthoxy)-</td>
<td>REACH #: 01-2119557899-12 EC: 618-561-0 CAS: 9046-10-0 (n = 2-6)</td>
<td>≥10 - ≤25</td>
<td>Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335</td>
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<tr>
<td>Formaldehyde, polymer with 1,3-dimethylbenzene</td>
<td>CAS: 26139-75-3</td>
<td>≥10 - ≤25</td>
<td>Skin Irrit. 2, H315 Eye Irrit. 2, H319</td>
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<tr>
<td>benzyl alcohol</td>
<td>REACH #: 01-2119492630-38 EC: 202-859-9 CAS: 100-51-6 Index: 603-057-00-5</td>
<td>≥5.0 - ≤10</td>
<td>Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Irrit. 2, H319</td>
<td>[1]</td>
</tr>
<tr>
<td>Formaldehyde, polymer with benzenamine, hydrogenated</td>
<td>REACH #: 01-2119983522-33 CAS: 135108-88-2</td>
<td>≥5.0 - &lt;10</td>
<td>Acute Tox. 4, H302 Skin Irrit. 1C, H314 Eye Dam. 1, H318</td>
<td>[1]</td>
</tr>
<tr>
<td>4-nonylphenol, branched</td>
<td>REACH #: 01-2119510715-45 EC: 284-325-5 CAS: 84852-15-3 Index: 601-053-00-8</td>
<td>≥0.10 - ≤2.2</td>
<td>Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318</td>
<td>[1][5]</td>
</tr>
<tr>
<td>3,6-diazaoctanethylenediamin</td>
<td>EC: 203-950-6 CAS: 112-24-3 Index: 612-059-00-5</td>
<td>≥0.10 - ≤2.2</td>
<td>Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412 Aquatic Chronic 1, H410 (M=10)</td>
<td>[1]</td>
</tr>
<tr>
<td>4,4’-methylenebis</td>
<td>REACH #: 01-2119541673-38</td>
<td>≥1.0 - ≤4.6</td>
<td>Acute Tox. 4, H302</td>
<td>[1]</td>
</tr>
</tbody>
</table>
SECTION 3: Composition/information on ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>EC Number</th>
<th>CAS Number</th>
<th>Skin Corr.</th>
<th>Eye Dam.</th>
<th>Skin Sens.</th>
<th>STOT RE</th>
<th>Aquatic Chronic</th>
<th>Acute Tox.</th>
<th>Repr.</th>
<th>Aquatic Acute</th>
<th>Aquatic Chronic</th>
<th>EUH071</th>
</tr>
</thead>
<tbody>
<tr>
<td>(cyclohexylamine)</td>
<td>217-168-8</td>
<td>1761-71-3</td>
<td>1B, H314</td>
<td>1, H318</td>
<td>1, H317</td>
<td>2, H373 (liver) (oral)</td>
<td>2, H411</td>
<td>4, H302</td>
<td>1B, H314</td>
<td>1, H400 (M=10)</td>
<td>1, H410 (M=10)</td>
<td>071</td>
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<tr>
<td>Nonylphenols</td>
<td>294-048-1</td>
<td>91672-41-2</td>
<td>&lt;0.25</td>
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<td></td>
</tr>
</tbody>
</table>

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type
[1] Substance classified with a health or environmental hazard
[2] Substance with a workplace exposure limit
[5] Substance of equivalent concern
[6] Additional disclosure due to company policy

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

SUB codes represent substances without registered CAS Numbers.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.

Inhalation : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

Skin contact : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.

Ingestion : If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation : Harmful if inhaled. May cause respiratory irritation.
**SECTION 4: First aid measures**

| **Skin contact** | Causes severe burns. Defatting to the skin. May cause an allergic skin reaction. |
| **Ingestion** | Harmful if swallowed. Corrosive to the digestive tract. Causes burns. |

**Over-exposure signs/symptoms**

| **Eye contact** | Adverse symptoms may include the following: pain, watering, redness |
| **Inhalation** | Adverse symptoms may include the following: respiratory tract irritation, coughing |
| **Skin contact** | Adverse symptoms may include the following: pain or irritation, redness, dryness, cracking, blistering may occur |
| **Ingestion** | Adverse symptoms may include the following: stomach pains |

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

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

**Specific treatments**
No specific treatment.

**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

| **Suitable extinguishing media** | Use an extinguishing agent suitable for the surrounding fire. |
| **Unsuitable extinguishing media** | None known. |

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

**Hazardous combustion products**
Decomposition products may include the following materials: carbon oxides, nitrogen oxides, Formaldehyde.

**5.3 Advice for firefighters**

| **Special precautions for fire-fighters** | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| **Special protective equipment for fire-fighters** | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. |
SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Informed the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

6.3 Methods and material for containment and cleaning up

Small spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill: Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

6.4 Reference to other sections: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
SECTION 7: Handling and storage

7.2 Conditions for safe storage, including any incompatibilities
Do not store above the following temperature: 50°C (122°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)
See Section 1.2 for Identified uses.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1 Control parameters

Occupational exposure limits
No exposure limit value known.

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

DNELs

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Type</th>
<th>Exposure</th>
<th>Value</th>
<th>Population</th>
<th>Effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>furfuryl alcohol</td>
<td>DNEL</td>
<td>Short term Oral</td>
<td>2.4 mg/kg bw/day</td>
<td>General population</td>
<td>Systemic</td>
</tr>
<tr>
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<td>DNEL</td>
<td>Long term Oral</td>
<td>2.4 mg/kg bw/day</td>
<td>General population</td>
<td>Systemic</td>
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<tr>
<td></td>
<td>DNEL</td>
<td>Long term Dermal</td>
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<td>General population</td>
<td>Systemic</td>
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<td>DNEL</td>
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<td>8 mg/m³</td>
<td>General population</td>
<td>Local</td>
</tr>
<tr>
<td></td>
<td>DNEL</td>
<td>Long term Inhalation</td>
<td>8 mg/m³</td>
<td>General population</td>
<td>Local</td>
</tr>
<tr>
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<td>Short term Inhalation</td>
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<td>Workers</td>
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<td>Poly[oxy(methyl-1,2-ethanediyl)], α- (2-aminomethyl(2-aminoethyl(2-aminomethylethoxy))-</td>
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<td>Long term Inhalation</td>
<td>1.36 mg/m³</td>
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<td>Systemic</td>
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<tr>
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<td>DNEL</td>
<td>Long term Oral</td>
<td>4 mg/kg bw/day</td>
<td>General population</td>
<td>Systemic</td>
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<tr>
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<td>DNEL</td>
<td>Long term Dermal</td>
<td>4 mg/kg bw/day</td>
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<td>Systemic</td>
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<td>8 mg/kg bw/day</td>
<td>Workers</td>
<td>Systemic</td>
</tr>
</tbody>
</table>
SECTION 8: Exposure controls/personal protection

**Formaldehyde, polymer with benzenamine, hydrogenated**

- **DNEL** Short term Oral: 20 mg/kg bw/day General population Systemic
- **DNEL** Short term Dermal: 20 mg/kg bw/day General population Systemic
- **DNEL** Long term Inhalation: 22 mg/m³ Workers Systemic
- **DNEL** Short term Inhalation: 27 mg/m³ General population Systemic
- **DNEL** Short term Dermal: 40 mg/kg bw/day Workers Systemic
- **DNEL** Short term Inhalation: 110 mg/m³ Workers Systemic
- **DNEL** Long term Inhalation: 0.2 mg/m³ Workers Systemic

**4-nonylphenol, branched**

- **DNEL** Long term Dermal: 2 mg/kg bw/day Workers Systemic
- **DNEL** Short term Inhalation: 2 mg/m³ Workers Systemic
- **DNEL** Short term Dermal: 6 mg/kg bw/day Workers Systemic
- **DNEL** Long term Oral: 0.08 mg/kg bw/day General population Systemic
- **DNEL** Short term Oral: 0.4 mg/kg bw/day General population Systemic
- **DNEL** Long term Inhalation: 0.4 mg/m³ General population Systemic
- **DNEL** Long term Dermal: 0.5 mg/m³ General population Systemic
- **DNEL** Short term Inhalation: 0.8 mg/m³ General population Systemic
- **DNEL** Short term Dermal: 1 mg/m³ General population Systemic
- **DNEL** Long term Dermal: 3.8 mg/kg bw/day General population Systemic
- **DNEL** Long term Dermal: 7.5 mg/kg bw/day General population Systemic
- **DNEL** Long term Dermal: 7.6 mg/kg bw/day General population Systemic
- **DNEL** Short term Dermal: 15 mg/kg bw/day General population Systemic
- **DNEL** Short term Oral: 6 mg/kg bw/day General population Systemic
- **DNEL** Long term Dermal: 0.06 mg/kg bw/day General population Systemic

**Salicylic acid**

- **DNEL** Long term Dermal: 0.06 mg/kg bw/day General population Systemic
- **DNEL** Long term Oral: 1 mg/kg bw/day General population Systemic
- **DNEL** Long term Dermal: 1 mg/kg bw/day General population Systemic
- **DNEL** Long term Dermal: 2.3 mg/kg bw/day General population Systemic
- **DNEL** Short term Oral: 4 mg/kg bw/day General population Systemic
- **DNEL** Long term Inhalation: 4 mg/m³ General population Systemic
- **DNEL** Long term Inhalation: 5 mg/m³ General population Systemic
- **DNEL** Long term Inhalation: 5 mg/m³ General population Systemic
- **DNEL** Short term Inhalation: 1 mg/m³ General population Systemic
- **DNEL** Long term Dermal: 0.06 mg/kg bw/day General population Systemic
- **DNEL** Long term Dermal: 0.1 mg/kg bw/day General population Systemic
- **DNEL** Long term Inhalation: 0.21 mg/m³ Workers Systemic
- **DNEL** Long term Inhalation: 0.06 mg/kg bw/day General population Systemic

**4,4'-methylenebis (cyclohexylamine)**

- **DNEL** Long term Dermal: 0.06 mg/kg bw/day General population Systemic
- **DNEL** Long term Inhalation: 0.06 mg/kg bw/day General population Systemic
- **DNEL** Long term Dermal: 0.1 mg/kg bw/day General population Systemic
- **DNEL** Long term Inhalation: 0.21 mg/m³ Workers Systemic
- **DNEL** Long term Inhalation: 0.1 mg/kg bw/day General population Systemic

**PNECs**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Type</th>
<th>Compartment Detail</th>
<th>Value</th>
<th>Method Detail</th>
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<td>Fresh water</td>
<td>0.015 mg/l</td>
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<td>Marine water</td>
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<td>-</td>
<td>Sewage Treatment Plant</td>
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<td>-</td>
<td>Fresh water sediment</td>
<td>0.132 mg/kg dwt</td>
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<td>Soil</td>
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<td>Equilibrium Partitioning</td>
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</table>

8.2 Exposure controls

**Appropriate engineering controls**: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Individual protection measures**

**Hygiene measures**: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
SECTION 8: Exposure controls/personal protection

Eye/face protection
Chemical splash goggles and face shield. Use eye protection according to EN 166.

Hand protection
Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

Skin protection

Gloves
nitrile neoprene

Body protection
Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection
Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection
Use with adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Wear a respirator conforming to EN140. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Mask type: full-face mask half-face mask Filter type: organic vapour filter (Type A) particulate filter P3 Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

Environmental exposure controls
Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Appearance
Physical state: Liquid.
Colour: Not available.
Odour: Characteristic.
Odour threshold: Not available.
pH: insoluble in water.
Melting point/freezing point: May start to solidify at the following temperature: 12°C (53.6°F) This is based on data for the following ingredient: 3,6-diazaoctanethylenediamin. Weighted average: -22.66°C (-8.8°F)
Initial boiling point and boiling range: >37.78°C
Flash point: Closed cup: 100°C
Evaporation rate:
SECTION 9: Physical and chemical properties

Flammability (solid, gas) : liquid

Upper/lower flammability or explosive limits : Greatest known range: Lower: 1.8%  Upper: 16.3% (fururyl alcohol)

Vapour pressure:

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Vapour Pressure at 20°C</th>
<th>Vapour Pressure at 50°C</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>mm Hg</td>
<td>kPa</td>
</tr>
<tr>
<td>Poly[oxy(methyl-1,2-ethanediyl)], α-</td>
<td>0.675</td>
<td>0.09</td>
</tr>
<tr>
<td>α-D-aminomethylβ-D-aminomethylethoxy&gt;=</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Vapour density : Highest known value: 15.4  (Air = 1) (1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich). Weighted average: 6.61  (Air = 1)

Relative density : 1.02

Solubility(ies) : Insoluble in the following materials: cold water.

Water Solubility at room temperature : 21.5 g/l

Partition coefficient: n-octanol/ water : Not applicable.

Auto-ignition temperature

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>°C</th>
<th>°F</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,4'‐methylennebis(cyclohexylamine)</td>
<td>300</td>
<td>572</td>
<td>EU A.15</td>
</tr>
</tbody>
</table>

Decomposition temperature : Stable under recommended storage and handling conditions (see Section 7).

Viscosity : Kinematic (40°C): >21 mm²/s

Explosive properties : The product itself is not explosive, but the formation of an explosive mixture of vapour or dust with air is possible.

Oxidising properties : Product does not present an oxidizing hazard.

9.2 Other information
No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : The product is stable.

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

10.4 Conditions to avoid : When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.

10.5 Incompatible materials : Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.

10.6 Hazardous decomposition products : Depending on conditions, decomposition products may include the following materials: carbon oxides  nitrogen oxides  Formaldehyde.
SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>furfuryl alcohol</td>
<td>LC50 Inhalation Vapour</td>
<td>Rat</td>
<td>934 mg/m³</td>
<td>4 hours</td>
</tr>
<tr>
<td></td>
<td>LC50 Inhalation Vapour</td>
<td>Rat</td>
<td>233 ppm</td>
<td>4 hours</td>
</tr>
<tr>
<td></td>
<td>LD50 Dermal</td>
<td>Rabbit</td>
<td>400 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>LD50 Dermal</td>
<td>Rat</td>
<td>3825 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>0.132 g/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>LD50 Dermal</td>
<td>Rat</td>
<td>2980 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Polyoxy(methyl-1,2-ethanediyl), α-(2-aminomethylethyl)-ω-(2-aminomethyleneoxy)-</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>2885 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>LC50 Inhalation Dusts and</td>
<td>Rat</td>
<td>&gt;4178 mg/m³</td>
<td>4 hours</td>
</tr>
<tr>
<td></td>
<td>mists</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>benzyl alcohol</td>
<td>LD50 Dermal</td>
<td>Rabbit</td>
<td>2000 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>1.23 g/kg</td>
<td>-</td>
</tr>
<tr>
<td>2,4,6-tris(dimethylaminomethyl)phenol</td>
<td>LD50 Dermal</td>
<td>Rabbit</td>
<td>1.28 g/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>LD50 Dermal</td>
<td>Rat</td>
<td>1280 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>1200 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>4-nonylphenol, branched</td>
<td>LD50 Dermal</td>
<td>Rabbit</td>
<td>2.14 g/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>1300 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>3,6-diazaoctanethylenediamin</td>
<td>LD50 Dermal</td>
<td>Rabbit</td>
<td>1465 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>1716 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>salicylic acid</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>0.891 g/kg</td>
<td>-</td>
</tr>
<tr>
<td>4,4'-methylenebis(cyclohexylamine)</td>
<td>LD50 Dermal</td>
<td>Rabbit</td>
<td>2.11 g/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>0.625 g/kg</td>
<td>-</td>
</tr>
</tbody>
</table>

Conclusion/Summary: There are no data available on the mixture itself.

Acute toxicity estimates

<table>
<thead>
<tr>
<th>Route</th>
<th>ATE value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>1363.87 mg/kg</td>
</tr>
<tr>
<td>Dermal</td>
<td>4624.77 mg/kg</td>
</tr>
<tr>
<td>Inhalation (vapours)</td>
<td>13.92 mg/l</td>
</tr>
<tr>
<td>Inhalation (dusts and mists)</td>
<td>17.23 mg/l</td>
</tr>
</tbody>
</table>

Irritation/Corrosion

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Score</th>
<th>Exposure</th>
<th>Observation</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,4,6-tris(dimethylaminomethyl)phenol</td>
<td>Skin - Visible necrosis</td>
<td>Rabbit</td>
<td>-</td>
<td>4 hours</td>
<td>7 days</td>
</tr>
<tr>
<td>4-nonylphenol, branched</td>
<td>Skin - Erythema/Eschar</td>
<td>Rabbit</td>
<td>4</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

Conclusion/Summary: There are no data available on the mixture itself.

Skin

Eyes

Respiratory

Sensitisation

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Route of exposure</th>
<th>Species</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formaldehyde, polymer with benzenamine, hydrogenated</td>
<td>skin</td>
<td>Guinea pig</td>
<td>Sensitising</td>
</tr>
<tr>
<td>2,4,6-tris(dimethylaminomethyl)phenol</td>
<td>skin</td>
<td>Guinea pig</td>
<td>Sensitising</td>
</tr>
<tr>
<td>3,6-diazaoctanethylenediamin</td>
<td>skin</td>
<td>Guinea pig</td>
<td>Sensitising</td>
</tr>
</tbody>
</table>

Conclusion/Summary
SECTION 11: Toxicological information

- **Skin**
  - There are no data available on the mixture itself.

- **Respiratory**
  - There are no data available on the mixture itself.

### Mutagenicity

**Conclusion/Summary**
- There are no data available on the mixture itself.

### Carcinogenicity

**Conclusion/Summary**
- There are no data available on the mixture itself.

### Reproductive toxicity

**Conclusion/Summary**
- There are no data available on the mixture itself.

### Teratogenicity

**Conclusion/Summary**
- There are no data available on the mixture itself.

### Specific target organ toxicity (single exposure)

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Category</th>
<th>Route of exposure</th>
<th>Target organs</th>
</tr>
</thead>
<tbody>
<tr>
<td>furfuryl alcohol</td>
<td>Category 3</td>
<td>-</td>
<td>Respiratory tract irritation</td>
</tr>
<tr>
<td>Formaldehyde, polymer with 1,3-dimethylbenzene</td>
<td>Category 3</td>
<td>-</td>
<td>Respiratory tract irritation</td>
</tr>
</tbody>
</table>

### Specific target organ toxicity (repeated exposure)

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Category</th>
<th>Route of exposure</th>
<th>Target organs</th>
</tr>
</thead>
<tbody>
<tr>
<td>furfuryl alcohol</td>
<td>Category 2</td>
<td>oral</td>
<td>-</td>
</tr>
<tr>
<td>Formaldehyde, polymer with benzenamine, hydrogenated 4,4'-methylenebis(cyclohexylamine)</td>
<td>Category 2</td>
<td>oral</td>
<td>kidneys</td>
</tr>
</tbody>
</table>

### Aspiration hazard

Not available.

### Information on likely routes of exposure

- Not available.

### Potential acute health effects

- **Inhalation**: Harmful if inhaled. May cause respiratory irritation.
- **Ingestion**: Harmful if swallowed. Corrosive to the digestive tract. Causes burns.
- **Skin contact**: Causes severe burns. Defatting to the skin. May cause an allergic skin reaction.
- **Eye contact**: Causes serious eye damage.

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

- **Inhalation**: Adverse symptoms may include the following: respiratory tract irritation, coughing.
- **Ingestion**: Adverse symptoms may include the following: stomach pains.
- **Skin contact**: Adverse symptoms may include the following: pain or irritation, redness, dryness, cracking, blistering may occur.
- **Eye contact**: Adverse symptoms may include the following: pain, watering, redness.

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

---

**English (GB) United Kingdom (UK)** 12/18
SECTION 11: Toxicological information

Potential chronic health effects
Not available.

Conclusion/Summary
Not available.

General
May cause damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Carcinogenicity
Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity
No known significant effects or critical hazards.

Reproductive toxicity
No known significant effects or critical hazards.

Other information
Causes digestive tract burns. Prolonged or repeated contact may dry skin and cause irritation. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapour/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Contains a substance that may emit formaldehyde if stored beyond its shelf life and/or during cure at curing temperatures greater than 60C/140F. Avoid contact with skin and clothing.

SECTION 12: Ecological information

12.1 Toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
</table>
| **Poly(oxy(methyl-1,2-ethanediyl)), α-**  
(2-aminomethyl)-ω-(2-aminomethylethoxy)-Formaldehyde, polymer with benzenamine, hydrogenated  
2,4,6-tris(dimethylaminomethyl)phenol  
4-nonylphenol, branched | EC50 15 mg/l  
Acute EC50 63 mg/l  
Acute LC50 175 mg/l  
Acute EC50 0.04 mg/l  
Acute EC50 0.044 mg/l | Algae  
Fish  
Fish  
Algae - Pseudokirchneriella subcapitata  
Crustaceans - Moina macrocopa | 72 hours  
96 hours  
96 hours  
72 hours  
48 hours |
| salicylic acid | Acute LC50 0.221 mg/l  
Acute EC50 1147.57 mg/l  
Chronic NOEC 5.6 mg/l  
Acute LC50 0.017 mg/l | Fresh water  
Fresh water  
Daphnia - Daphnia longispina - Neonate Daphnia - Daphnia magna - Neonate Fish - Pleuronectes americanus | 96 hours  
48 hours  
21 days  
96 hours |

Conclusion/Summary: There are no data available on the mixture itself.

12.2 Persistence and degradability

Conclusion/Summary: There are no data available on the mixture itself.
**SECTION 12: Ecological information**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Aquatic half-life</th>
<th>Photolysis</th>
<th>Biodegradability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poly[oxy(methyl-1,2-ethanediyl)], α- (2-aminomethyl)ethyloxy)-benzyl alcohol</td>
<td>-</td>
<td>-</td>
<td>Not readily</td>
</tr>
<tr>
<td>Benzyl alcohol</td>
<td>-</td>
<td>-</td>
<td>Readily</td>
</tr>
</tbody>
</table>

### 12.3 Bioaccumulative potential

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>LogP&lt;sub&gt;ow&lt;/sub&gt;</th>
<th>BCF</th>
<th>Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>Furfuryl alcohol</td>
<td>0.3</td>
<td>-</td>
<td>low</td>
</tr>
<tr>
<td>Benzyl alcohol</td>
<td>0.87</td>
<td>-</td>
<td>low</td>
</tr>
<tr>
<td>Formaldehyde, polymer with benzenamine, hydrogenated</td>
<td>-</td>
<td>209 to 219</td>
<td>low</td>
</tr>
<tr>
<td>2,4,6-tris(dimethylaminomethyl)phenol</td>
<td>0.219</td>
<td>-</td>
<td>low</td>
</tr>
<tr>
<td>4-nonylphenol, branched</td>
<td>5.4</td>
<td>251.19</td>
<td>low</td>
</tr>
<tr>
<td>3,6-diazaoctanethylenediamin</td>
<td>-1.66 to -1.4</td>
<td>-</td>
<td>low</td>
</tr>
<tr>
<td>Salicylic acid</td>
<td>2.21 to 2.26</td>
<td>-</td>
<td>low</td>
</tr>
<tr>
<td>4,4’-methylenebis(cyclohexylamine)</td>
<td>2.03</td>
<td>-</td>
<td>low</td>
</tr>
</tbody>
</table>

### 12.4 Mobility in soil

**Soil/water partition coefficient (K<sub>ow</sub>)**

- Not available.

**Mobility**

- Not available.

### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

### 12.6 Other adverse effects

- No known significant effects or critical hazards.

**SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 13.1 Waste treatment methods

**Product**

**Methods of disposal**

- The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste**

- Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

**European waste catalogue (EWC)**

<table>
<thead>
<tr>
<th>Waste code</th>
<th>Waste designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>08 01 99</td>
<td>wastes not otherwise specified</td>
</tr>
</tbody>
</table>

**Packaging**

**Methods of disposal**

- The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
SECTION 13: Disposal considerations

Special precautions: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

14. Transport information

<table>
<thead>
<tr>
<th>14.1 UN number</th>
<th>ADR/RID</th>
<th>ADN</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN3066</td>
<td>PAINT</td>
<td>PAINT</td>
<td>PAINT</td>
<td>PAINT</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>14.2 UN proper shipping name</th>
<th>ADR/RID</th>
<th>ADN</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAINT</td>
<td>PAINT</td>
<td>PAINT</td>
<td>PAINT</td>
<td>PAINT</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>14.3 Transport hazard class(es)</th>
<th>ADR/RID</th>
<th>ADN</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>8</td>
<td>8</td>
<td>8</td>
<td>8</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>14.4 Packing group</th>
<th>ADR/RID</th>
<th>ADN</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>II</td>
<td>II</td>
<td>II</td>
<td>II</td>
<td>II</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>14.5 Environmental hazards</th>
<th>ADR/RID</th>
<th>ADN</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Marine pollutant substances</th>
<th>ADR/RID</th>
<th>ADN</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>(4-nonylphenol, branched, 4,4'-methylenebis (cyclohexylamine))</td>
<td>Not applicable.</td>
<td></td>
</tr>
</tbody>
</table>

Additional information

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

Tunnel code: (E)

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

IMDG: The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.

IATA: The environmentally hazardous substance mark may appear if required by other transportation regulations.

14.6 Special precautions for user: Transport within user’s premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to IMO instruments: Not applicable.

SECTION 15: Regulatory information

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

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

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern
SECTION 15: Regulatory information

<table>
<thead>
<tr>
<th>Intrinsic property</th>
<th>Ingredient name</th>
<th>Status</th>
<th>Reference number</th>
<th>Date of revision</th>
</tr>
</thead>
<tbody>
<tr>
<td>Substance of equivalent concern for environment</td>
<td>4-nonylphenol, branched and linear substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof 4-Nonylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]</td>
<td>Candidate</td>
<td>ED/169/2012</td>
<td>12/19/2012</td>
</tr>
</tbody>
</table>

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Ozone depleting substances (1005/2009/EU)

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

<table>
<thead>
<tr>
<th>Category</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>E2</td>
<td></td>
</tr>
</tbody>
</table>

15.2 Chemical safety assessment

: No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

> Indicates information that has changed from previously issued version.

Abbreviations and acronyms

ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number
PBT = Persistent, Bioaccumulative and Toxic
vPvB = Very Persistent and Very Bioaccumulative
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
IMDG = International Maritime Dangerous Goods
IATA = International Air Transport Association

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]
SECTION 16: Other information

<table>
<thead>
<tr>
<th>Classification</th>
<th>Justification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Tox. 4, H302</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Acute Tox. 4, H332</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Skin Corr. 1B, H314</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Eye Dam. 1, H318</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Skin Sens. 1, H317</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Carc. 2, H351</td>
<td>Calculation method</td>
</tr>
<tr>
<td>STOT SE 3, H335</td>
<td>Calculation method</td>
</tr>
<tr>
<td>STOT RE 2, H373</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Aquatic Chronic 2, H411</td>
<td>Calculation method</td>
</tr>
</tbody>
</table>

Full text of abbreviated H statements

- **H302**: Harmful if swallowed.
- **H312**: Harmful in contact with skin.
- **H314**: Causes severe skin burns and eye damage.
- **H315**: Causes skin irritation.
- **H317**: May cause an allergic skin reaction.
- **H318**: Causes serious eye damage.
- **H319**: Causes serious eye irritation.
- **H331**: Toxic if inhaled.
- **H332**: Harmful if inhaled.
- **H335**: May cause respiratory irritation.
- **H351**: Suspected of causing cancer.
- **H361**: Suspected of damaging fertility or the unborn child.
- **H361d**: Suspected of damaging fertility. Suspected of damaging the unborn child.
- **H373**: May cause damage to organs through prolonged or repeated exposure.
- **H400**: Very toxic to aquatic life.
- **H410**: Very toxic to aquatic life with long lasting effects.
- **H411**: Toxic to aquatic life with long lasting effects.
- **H412**: Harmful to aquatic life with long lasting effects.
- **EUH071**: Corrosive to the respiratory tract.

Full text of classifications [CLP/GHS]

- **Acute Tox. 3**: ACUTE TOXICITY - Category 3
- **Acute Tox. 4**: ACUTE TOXICITY - Category 4
- **Aquatic Acute 1**: SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
- **Aquatic Chronic 1**: LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
- **Aquatic Chronic 2**: LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
- **Aquatic Chronic 3**: LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
- **Carc. 2**: CARCINOGENICITY - Category 2
- **Eye Dam. 1**: SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
- **Eye Irrit. 2**: SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
- **Repr. 2**: REPRODUCTIVE TOXICITY - Category 2
- **Skin Corr. 1B**: SKIN CORROSION/IRRITATION - Category 1B
- **Skin Corr. 1C**: SKIN CORROSION/IRRITATION - Category 1C
- **Skin Irrit. 2**: SKIN CORROSION/IRRITATION - Category 2
- **Skin Sens. 1**: SKIN SENSITISATION - Category 1
- **Skin Sens. 1B**: SKIN SENSITISATION - Category 1B
- **STOT RE 2**: SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
- **STOT SE 3**: SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

History

- **English (GB)**
- **United Kingdom (UK)**
- **17/18**
SECTION 16: Other information

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