SAFETY DATA SHEET

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

1.1 Product identifier
   Product name : AMERLOCK SEALER HARDENER
   Product code : 00281136
   Product type : Liquid.

1.2 Relevant identified uses of the substance or mixture and uses advised against
   Product use : Professional applications, Used by spraying.
   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
   Sigma Paint Saudi Arabia Ltd.
   PO Box 7509
   Dammam 31472
   Saudi Arabia
   Tel: 00966 138 47 31 00
   Fax: 00966 138 47 17 34
   e-mail address of person responsible for this SDS : ndpic@sfda.gov.sa

1.4 Emergency telephone number : 00966 138473100 extn 1001

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
   STOT SE 3, H335
   STOT RE 2, H373
   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.
   See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements
Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

Code: 00281136  Date of issue/Date of revision: 29 April 2021

AMERLOCK SEALER HARDENER

SECTION 2: Hazards identification

Hazard 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[methyl-1,2-ethanediyl], α-(2-aminomethylethyl)-ω-(2-aminomethylthoxy)-Formaldehyde, polymer with benzamine, hydrogenated
- 2,4,6-tris(dimethylaminomethyl)phenol
- 3,6-diazaocantanylenediamin
- 4,4’-methylenebis(cyclohexylamine)

Supplemental label elements: Not applicable.
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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures: Mixture
## SECTION 3: Composition/information on ingredients

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Identifiers</th>
<th>% by weight</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poly(oxy(methyl-1,2-ethanediyl)], α-(2-aminomethylethyl)-ω-(2-aminomethylthioxy)-</td>
<td>REACH #: 01-2119557899-12 EC: 619-561-0 CAS: 9046-10-0 (n = 2-6) EC: Polymer CAS: 68082-29-1</td>
<td>≥10 - ≤25</td>
<td>Skin Corr. 1C, H314, Eye Dam. 1, H318, Aquatic Chronic 3, H412, Eye Dam. 1, H318</td>
</tr>
<tr>
<td>Nonylphenol</td>
<td>EC: 246-672-0 CAS: 25154-52-3 Index: 601-053-00-8</td>
<td>≥0.30 - &lt;2.5</td>
<td>Acute Tox. 4, H302, Skin Corr. 1B, H314, Eye Dam. 1, H318, Repr. 2, H361d, Aquatic Acute 1, H400 (M=10), Aquatic Chronic 1, H410 (M=10)</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 - ≤2.1</td>
<td>Acute Tox. 4, H302, Acute Tox. 4, H312, Skin Corr. 1B, H314, Eye Dam. 1, H318, Skin Sens. 1, H317, Acute Tox. 4, H302, Aquatic Chronic 3, H412, Aquatic Chronic 1, H400 (M=10)</td>
</tr>
<tr>
<td>Salicylic acid</td>
<td>REACH #: 01-2119486984-17 EC: 200-712-3 CAS: 69-72-7 Index: 607-732-00-5</td>
<td>≥1.0 - &lt;3.0</td>
<td>Acute Tox. 4, H302, Skin Corr. 1B, H314, Eye Dam. 1, H318, Repr. 2, H361d</td>
</tr>
<tr>
<td>Toluene</td>
<td>REACH #: 01-2119471310-51</td>
<td>≤0.30</td>
<td>Aquatic Chronic 2, H411, Flam. Liq. 2, H225</td>
</tr>
</tbody>
</table>
SECTION 3: Composition/information on ingredients

<table>
<thead>
<tr>
<th>EC: 203-625-9</th>
<th>Skin Irrit. 2, H315</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS: 108-88-3</td>
<td>Repr. 2, H361d</td>
</tr>
<tr>
<td>Index: 601-021-00-3</td>
<td>STOT SE 3, H336</td>
</tr>
<tr>
<td></td>
<td>STOT RE 2, H373</td>
</tr>
<tr>
<td></td>
<td>Asp. Tox. 1, H304</td>
</tr>
</tbody>
</table>

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

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

**Type**

[1] Substance classified with a 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.

**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
## SECTION 4: First aid measures

<table>
<thead>
<tr>
<th>Condition</th>
<th>Symptoms</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin contact</td>
<td>Adverse symptoms may include the following:</td>
</tr>
<tr>
<td></td>
<td>- pain or irritation</td>
</tr>
<tr>
<td></td>
<td>- redness</td>
</tr>
<tr>
<td></td>
<td>- dryness</td>
</tr>
<tr>
<td></td>
<td>- cracking</td>
</tr>
<tr>
<td></td>
<td>- blistering may occur</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Adverse symptoms may include the following:</td>
</tr>
<tr>
<td></td>
<td>- stomach pains</td>
</tr>
</tbody>
</table>

### 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

**Hazards from the substance or mixture**: In a fire or if heated, a pressure increase will occur and the container may burst. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

**Hazardous combustion products**: Decomposition products may include the following materials:
- carbon oxides
- nitrogen oxides

### 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".
SECTION 6: Accidental release measures

6.2 Environmental precautions: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform 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.

7.2 Conditions for safe storage, including any incompatibilities: Store between the following temperatures: 0 to 35°C (32 to 95°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.

Recommendations: Not available.

Industrial sector specific solutions: Not available.
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

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Exposure limit values</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>TWA: 0.2 ppm 8 hours.</td>
</tr>
<tr>
<td>benzyl alcohol</td>
<td>IPEL (PPG).</td>
</tr>
<tr>
<td></td>
<td>TWA: 5 ppm</td>
</tr>
<tr>
<td>3,6-diazaocanethylenediamin</td>
<td>IPEL (PPG). Absorbed through skin.</td>
</tr>
<tr>
<td></td>
<td>TWA: 1 ppm</td>
</tr>
<tr>
<td>toluene</td>
<td>EU OEL (Europe, 10/2019). Absorbed through skin.</td>
</tr>
<tr>
<td></td>
<td>TWA: 384 mg/m³ 15 minutes</td>
</tr>
<tr>
<td></td>
<td>STEL: 384 mg/m³ 15 minutes</td>
</tr>
<tr>
<td></td>
<td>TWA: 192 mg/m³ 8 hours.</td>
</tr>
<tr>
<td></td>
<td>STEL: 100 ppm 15 minutes</td>
</tr>
<tr>
<td></td>
<td>STEL: 50 ppm 8 hours.</td>
</tr>
</tbody>
</table>

#### 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.

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.

**Eye/face protection**

Chemical splash goggles and face shield.

**Skin 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
SECTION 8: Exposure controls/personal protection

product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

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
: 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. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. 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
: Colourless.

Odour
: Amine-like.

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: -22.63°C (-8.7°F)

Initial boiling point and boiling range
: >37.78°C

Flash point
: Closed cup: 91°C

Evaporation rate
: Highest known value: 0.04 (furfuryl alcohol) Weighted average: 0.03 compared with butyl acetate

Flammability (solid, gas)
: liquid

Upper/lower flammability or explosive limits
: Greatest known range: Lower: 1.8% Upper: 16.3% (furfuryl 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-(2-aminomethylethyl)-ω-(2-aminomethylethoxy)</td>
<td>0.675</td>
<td>0.09</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.
SECTION 9: Physical and chemical properties

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

Auto-ignition temperature : Stable under recommended storage and handling conditions (see Section 7).

Viscosity : Kinematic (40°C): >0.21 cm²/s

Explosive properties : Product does not present an explosion hazard.

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

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>Rat</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>Poly[oxy(methyl-1,2-ethanediyl)], α-(2-aminomethylethyl)-ω-(2-aminomethylethoxy)-benzyl alcohol</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>2885 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>LC50 Inhalation Dusts and mists</td>
<td>Rat</td>
<td>&gt;4178 mg/m³</td>
<td>4 hours</td>
</tr>
<tr>
<td></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>nonylphenol</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>580 mg/kg</td>
<td>-</td>
</tr>
</tbody>
</table>

9/16 English (GB) United Arab Emirates
## SECTION 11: Toxicological information

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Route of exposure</th>
<th>Species</th>
<th>Score</th>
<th>Exposure</th>
<th>Observation</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>3,6-diazaoctanethylenediamin</td>
<td>LD50 Dermal</td>
<td>Rabbit</td>
<td>1465 mg/kg</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>salicylic acid</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>1716 mg/kg</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4,4'-methylenebis(cyclohexylamine)</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>0.891 g/kg</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>toluene</td>
<td>LC50 Inhalation Vapour</td>
<td>Rabbit</td>
<td>2.11 g/kg</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>LD50 Dermal</td>
<td>Rat</td>
<td>0.625 g/kg</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>49 g/m³</td>
<td>4 hours</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rabbit</td>
<td>8.39 g/kg</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>5580 mg/kg</td>
<td>-</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Acute toxicity estimates

<table>
<thead>
<tr>
<th>Route</th>
<th>ATE value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>1338.36 mg/kg</td>
</tr>
<tr>
<td>Dermal</td>
<td>4624.76 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>
</tbody>
</table>

### Conclusion/Summary

- **Acute toxicity:** There are no data available on the mixture itself.
- **Irritation/Corrosion:** There are no data available on the mixture itself.
- **Sensitisation:** There are no data available on the mixture itself.
- **Mutagenicity:** There are no data available on the mixture itself.
- **Carcinogenicity:** There are no data available on the mixture itself.
- **Reproductive toxicity:** There are no data available on the mixture itself.
- **Teratogenicity:** 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>toluene</td>
<td>Category 3</td>
<td>-</td>
<td>Narcotic effects</td>
</tr>
</tbody>
</table>

### Specific target organ toxicity (repeated exposure)

---

English (GB) United Arab Emirates 10/16
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.

Amberlock Sealer Hardener

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

Code: 00281136
Date of issue/Date of revision: 29 April 2021

AMERLOCK SEALER HARDENER

SECTION 11: Toxicological information

Potential chronic 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
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.

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

Product/ingredient name
Formaldehyde, polymer with benzenamine, hydrogenated 4,4'-methylenebis(cyclohexylamine)

Category
Category 2

Route of exposure
oral

Target organs
kidneys, liver

Toluene

Category
Category 2

Route of exposure
oral

Target organs

Furfuryl alcohol

Category
Category 2

Route of exposure
oral

Target organs

Formaldehyde, polymer with benzenamine, hydrogenated 4,4'-methylenebis(cyclohexylamine)

Category
Category 2

Route of exposure
oral

Target organs
kidneys, liver

Toluene

Category
Category 2

Route of exposure
oral

Target organs

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

Eye contact
Adverse symptoms may include the following:
pain
watering

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

Short term exposure
Potential immediate effects
Not available.

Potential delayed effects
Not available.

Long term exposure
Potential immediate effects
Not available.

Potential delayed effects
Not available.

Potential chronic health effects
Not available.

Conclusion/Summary
Not available.

General
May cause damage to organs through prolonged or repeated exposure. 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.

Product/ingredient name

Category

Route of exposure

Target organs

Toluene

Category
Category 2

Route of exposure
oral

Target organs

Furfuryl alcohol

Category
Category 2

Route of exposure
oral

Target organs

Formaldehyde, polymer with benzenamine, hydrogenated 4,4'-methylenebis(cyclohexylamine)

Category
Category 2

Route of exposure
oral

Target organs
kidneys, liver

Toluene

Category
Category 2

Route of exposure
oral

Target organs

Furfuryl alcohol

Category
Category 2

Route of exposure
oral

Target organs

Formaldehyde, polymer with benzenamine, hydrogenated 4,4'-methylenebis(cyclohexylamine)

Category
Category 2

Route of exposure
oral

Target organs
kidneys, liver

Toluene

Category
Category 2

Route of exposure
oral

Target organs

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

Eye contact
Adverse symptoms may include the following:
pain
watering

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

Short term exposure
Potential immediate effects
Not available.

Potential delayed effects
Not available.

Long term exposure
Potential immediate effects
Not available.

Potential delayed effects
Not available.

Potential chronic health effects
Not available.

Conclusion/Summary
Not available.

General
May cause damage to organs through prolonged or repeated exposure. 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.
SECTION 11: Toxicological information

- **Mutagenicity**: No known significant effects or critical hazards.
- **Reproductive toxicity**: No known significant effects or critical hazards.
- **Other information**: Not available.

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 vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing.

SECTION 12: Ecological information

### 12.1 Toxicity

<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)ethoxy)-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>
<tr>
<td>Toluene</td>
<td>-</td>
<td>-</td>
<td>Readily</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Chronic EC50</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formaldehyde, polymer with benzenamine, hydrogenated</td>
<td>15 mg/l</td>
<td>Algae</td>
<td>72 hours</td>
</tr>
<tr>
<td>2,4,6-tris(dimethylaminomethyl)phenol</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Nonylphenol</td>
<td>0.056 mg/l</td>
<td>Algae - Desmodesmus subspicatus</td>
<td>72 hours</td>
</tr>
<tr>
<td>3,6-diazaoctanethylenediamin</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Salicylic acid</td>
<td>1147.57 mg/l</td>
<td>Daphnia - Daphnia longispina - Neonate</td>
<td>48 hours</td>
</tr>
</tbody>
</table>

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.

### 12.3 Bioaccumulative potential

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>LogP_{ow}</th>
<th>BCF</th>
<th>Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>Furfuryl alcohol</td>
<td>0.28</td>
<td>-</td>
<td>low</td>
</tr>
<tr>
<td>Benzyl alcohol</td>
<td>1.1</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>Nonylphenol</td>
<td>3.28</td>
<td>154.88</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>2.26</td>
<td>-</td>
<td>low</td>
</tr>
<tr>
<td>Toluene</td>
<td>2.73</td>
<td>8.32</td>
<td>low</td>
</tr>
</tbody>
</table>

### 12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}): Not available.
SECTION 12: Ecological information

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 : Yes.

European waste catalogue (EWC)

<table>
<thead>
<tr>
<th>Waste code</th>
<th>Waste designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>08 01 11*</td>
<td>waste paint and varnish containing organic solvents or other hazardous substances</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.

<table>
<thead>
<tr>
<th>Type of packaging</th>
<th>European waste catalogue (EWC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Container</td>
<td>15 01 06 mixed packaging</td>
</tr>
</tbody>
</table>

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 spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

<table>
<thead>
<tr>
<th>14.1 UN number</th>
<th>ADR/RID</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>UN3066</td>
<td>UN3066</td>
<td>UN3066</td>
</tr>
<tr>
<td>14.2 UN proper shipping name</td>
<td>PAINT</td>
<td>PAINT</td>
<td>PAINT</td>
</tr>
<tr>
<td>14.3 Transport hazard class(es)</td>
<td>8</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>14.4 Packing group</td>
<td>☑</td>
<td>☑</td>
<td>☑</td>
</tr>
<tr>
<td>14.5 Environmental hazards</td>
<td>Yes.</td>
<td>Yes.</td>
<td>Yes. The environmentally hazardous substance mark is not required.</td>
</tr>
<tr>
<td>Marine pollutant substances</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

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SECTION 14: Transport information

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)
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

<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]</td>
<td>Candidate</td>
<td>ED/169/2012</td>
<td>4/19/2013</td>
</tr>
</tbody>
</table>

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

Other national and international regulations.
Ozone depleting substances (1005/2009/EU)
Not listed.

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

Full text of abbreviated H statements:

- H225: Highly flammable liquid and vapour.
- H302: Harmful if swallowed.
- H304: May be fatal if swallowed and enters airways.
- H312: Harmful in contact with skin.
- H314: Causes severe skin burns and eye damage.
- H315: Causes skin irritation.
- H317: May cause an allergic skin reaction.
- H318: Causes serious eye damage.
- H319: Causes serious eye irritation.
- H331: Toxic if inhaled.
- H332: Harmful if inhaled.
- H335: May cause respiratory irritation.
- H336: May cause drowsiness or dizziness.
- H351: Suspected of causing cancer.
- H361d: Suspected of damaging the unborn child.
- H361fd: 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.

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
- Asp. Tox. 1: ASPIRATION HAZARD - Category 1
- 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
- Flam. Liq. 2: FLAMMABLE LIQUIDS - 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:

Date of issue/ Date of revision: 29 April 2021
Date of previous issue: 8 April 2019
Prepared by: EHS
Version: 2

Disclaimer: Indicates information that has changed from previously issued version.
SECTION 16: Other information

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by us, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.