SAFETY DATA SHEET

Section 1. Product and company identification

Product name : AMERLOCK SEALER CURE
Product code : AK-0B
Other means of identification : Not available.
Product type : Liquid.

Relevant identified uses of the substance or mixture and uses advised against

Identified uses

Uses advised against Reason
Not applicable.

Supplier's details:

Supplier : PPG INDUSTRIES ARGENTINA S.R.L.
Calle 9 y Del gasoducto N° 3810
Parque Industrial Pilar -(CP 1629) Pilar
Provincia de Buenos Aires - Argentina
Teléfono : 54-0230 4529700
Fax : 54-0230 4529706

Email address: HazComLatam@ppg.com

Emergency telephone number : Centro de intoxicaciones 0800-333-0160 /CIQUIME 0800-222-2933

Section 2. Hazards identification

Classification of the substance or mixture
ACUTE TOXICITY (oral) - Category 4
ACUTE TOXICITY (dermal) - Category 4
ACUTE TOXICITY (inhalation) - Category 2
SKIN CORROSION - Category 1B
SERIOUS EYE DAMAGE - Category 1
SKIN SENSITIZATION - Category 1
CARCINOGENICITY - Category 2
TOXIC TO REPRODUCTION - Category 2
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
AQUATIC HAZARD (ACUTE) - Category 2
AQUATIC HAZARD (LONG-TERM) - Category 2
Section 2. Hazards identification

Target organs: Contains material which causes damage to the following organs: blood, liver, heart, brain, skin, central nervous system (CNS). Contains material which may cause damage to the following organs: kidneys, the reproductive system, gastrointestinal tract, upper respiratory tract, eye, lens or cornea, muscle tissue, nose/sinuses.

Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 25.9%
Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 35.6%
Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 69%
Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 56.2%

GHS label elements

Hazard pictograms:

Signal word: Danger

Hazard statements:
Harmful if swallowed or in contact with skin.
Casts severe skin burns and eye damage.
May cause an allergic skin reaction.
Fatal if inhaled.
May cause respiratory irritation.
Suspected of causing cancer.
Suspected of damaging fertility or the unborn child.
May cause damage to organs through prolonged or repeated exposure.
Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention:
Obtain special instructions before use. Wear protective gloves, protective clothing and eye or face protection. In case of inadequate ventilation wear respiratory protection. Avoid release to the environment. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

Response:
Collect spillage. IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor. IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse. IF ON SKIN: Call a POISON CENTER or doctor if you feel unwell. Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

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

Disposal: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Section 2. Hazards identification

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 60°C (140°F).

Section 3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Substance/mixture</th>
<th>CAS number/other identifiers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mixture</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

CAS number

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>%</th>
<th>CAS number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Furfuryl alcohol</td>
<td>20 - &lt;30</td>
<td>98-00-0</td>
</tr>
<tr>
<td>Poly[oxy(methyl-1,2-ethanediyl)], α-(2-aminomethylethyl)-ω-(2-aminomethylethoxy)-Polyaminoamide</td>
<td>15 - &lt;20</td>
<td>9046-10-0 (n = 2-6)</td>
</tr>
<tr>
<td>Formaldehyde, polymer with 1,3-dimethylbenzene</td>
<td>10 - &lt;12.5</td>
<td>26139-75-3</td>
</tr>
<tr>
<td>1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich benzyl alcohol</td>
<td>7 - &lt;10</td>
<td>68515-49-1</td>
</tr>
<tr>
<td>Formaldehyde, polymer with benzenamine, hydrogenated</td>
<td>7 - &lt;10</td>
<td>135108-88-2</td>
</tr>
<tr>
<td>2,4,6-tris(dimethylaminomethyl)phenol</td>
<td>1 - &lt;2</td>
<td>90-72-2</td>
</tr>
<tr>
<td>4-nonylphenol, branched</td>
<td>1 - &lt;2</td>
<td>84852-15-3</td>
</tr>
<tr>
<td>3,6-diazaoctanethylenediamin</td>
<td>1 - &lt;2</td>
<td>112-24-3</td>
</tr>
<tr>
<td>Salicylic acid</td>
<td>1 - &lt;2</td>
<td>69-72-7</td>
</tr>
<tr>
<td>4,4'-methylenebis(cyclohexylamine)</td>
<td>1 - &lt;2</td>
<td>1761-71-3</td>
</tr>
<tr>
<td>Phenol, 2-nonyl-, branched</td>
<td>0.1 - &lt;0.2</td>
<td>91672-41-2</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 and hence require reporting in this section.

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

SUB codes represent substances without registered CAS Numbers.

Section 4. First aid measures

**Description of necessary 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 recognized skin cleanser. Do NOT use solvents or thinners.

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

**Indication of immediate medical attention and special treatment needed, if necessary**

**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.
Section 4. First aid measures

Specific treatments: No specific treatment.
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.

Potential acute health effects
Eye contact: Causes serious eye damage.
Inhalation: Fatal if inhaled. May cause respiratory irritation.
Skin contact: Causes severe burns. Harmful in contact with skin. Defatting to the skin. May cause an allergic skin reaction.
Ingestion: Harmful if swallowed. Corrosive to the digestive tract. Causes burns.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media
Suitable extinguishing media: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media: None known.

Specific hazards arising from the chemical: 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 thermal decomposition products: Decomposition products may include the following materials:
carbon oxides
nitrogen oxides
Formaldehyde.

Special protective actions 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.

Section 6. Accidental release measures

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 spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders: If specialized 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

Environmental precautions : Avoid dispersal of spilled 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.

Methods and materials 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 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 (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling : 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. Avoid exposure during pregnancy. 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 vapor 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.

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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits
Section 8. Exposure controls/personal protection

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Exposure limits</th>
</tr>
</thead>
</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 appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

**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.

**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.

**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 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.

**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.
Section 8. Exposure controls/personal protection

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.

Section 9. Physical and chemical properties

Appearance
Physical state: Liquid.
Color: Not available.
Odor: Characteristic.
pH: Not applicable.
Melting point: Not available.
Boiling point: >37.78°C (>100°F)
Flash point: Closed cup: 100°C (212°F)
Evaporation rate: Not available.
Flammability (solid, gas): Not available.
Lower and upper explosive (flammable) limits: Not available.

Vapor pressure: Not available.
Vapor density: Not available.
Relative density: 1.02
Solubility: 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: Not available.
Decomposition temperature: Not available.
Viscosity: Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)

Section 10. Stability and reactivity

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

Chemical stability: The product is stable.

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

Conditions to avoid: When exposed to high temperatures may produce hazardous decomposition products.

Incompatible materials: Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
### Section 10. Stability and reactivity

**Hazardous decomposition products**: Depending on conditions, decomposition products may include the following materials: carbon oxides, nitrogen oxides, Formaldehyde.

### Section 11. Toxicological information

#### 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 Vapor</td>
<td>Rat</td>
<td>934 mg/m³</td>
<td>4 hours</td>
</tr>
<tr>
<td></td>
<td>LC50 Inhalation Vapor</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>Rabbit</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>
</tbody>
</table>

- Poly[oxy(methyl-1,2-ethanediyl)], α-(2-aminomethylethyl)-ω-(2-aminomethylethoxy):

- 1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich

- Benzyl alcohol

- 2,4,6-tris(dimethylaminomethyl)phenol

- 4-nonylphenol, branched

- 3,6-diazaoctanethylenediamin

- Salicylic acid

- 4,4'-methylenebis(cyclohexylamine)

#### Conclusion/Summary

Information on toxicological effects

- There are no data available on the mixture itself.

#### 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

- **Skin**: There are no data available on the mixture itself.
- **Eyes**: There are no data available on the mixture itself.
- **Respiratory**: There are no data available on the mixture itself.
- **Sensitization**: There are no data available on the mixture itself.
Section 11. Toxicological information

<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 2,4,6-tris(dimethylaminomethyl) phenol 3,6-diazaoctanethylenediamin</td>
<td>skin</td>
<td>Guinea pig</td>
<td>Sensitizing</td>
</tr>
<tr>
<td>2,4,6-tris(dimethylaminomethyl)phenol</td>
<td>skin</td>
<td>Guinea pig</td>
<td>Sensitizing</td>
</tr>
<tr>
<td>3,6-diazaoctanethylenediamin</td>
<td>skin</td>
<td>Guinea pig</td>
<td>Sensitizing</td>
</tr>
</tbody>
</table>

**Conclusion/Summary**

- **Skin**: There are no data available on the mixture itself.
- **Respiratory**: There are no data available on the mixture itself.
- **Mutagenicity**: Not available.
- **Carcinogenicity**: Not available.
- **Conclusion/Summary**: There are no data available on the mixture itself.

**Reproductive toxicity**

Not available.

**Teratogenicity**

Not available.

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

**Specific target organ toxicity (single exposure)**

<table>
<thead>
<tr>
<th>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)**
Section 11. Toxicological information

<table>
<thead>
<tr>
<th>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>-</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>

**Target organs**: Contains material which causes damage to the following organs: blood, liver, heart, brain, skin, central nervous system (CNS). Contains material which may cause damage to the following organs: kidneys, the reproductive system, gastrointestinal tract, upper respiratory tract, eye, lens or cornea, muscle tissue, nose/sinuses.

**Aspiration hazard**

<table>
<thead>
<tr>
<th>Name</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>furfuryl alcohol</td>
<td>ASPIRATION HAZARD - Category 2</td>
</tr>
<tr>
<td>benzyl alcohol</td>
<td>ASPIRATION HAZARD - Category 2</td>
</tr>
</tbody>
</table>

**Information on the likely routes of exposure**: Not available.

**Potential acute health effects**

**Eye contact**: Causes serious eye damage.

**Inhalation**: Fatal if inhaled. May cause respiratory irritation.

**Skin contact**: Causes severe burns. Harmful in contact with skin. Defatting to the skin. May cause an allergic skin reaction.

**Ingestion**: Harmful if swallowed. Corrosive to the digestive tract. Causes burns.

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

**Eye contact**: Adverse symptoms may include the following:
- pain
- watering
- redness

**Inhalation**: Adverse symptoms may include the following:
- respiratory tract irritation
- coughing
- reduced fetal weight
- increase in fetal deaths
- skeletal malformations

**Skin contact**: Adverse symptoms may include the following:
- pain or irritation
- redness
- dryness
- cracking
- blistering may occur
- reduced fetal weight
- increase in fetal deaths
- skeletal malformations
Section 11. Toxicological information

Ingestion

Adverse symptoms may include the following:
- stomach pains
- reduced fetal weight
- increase in fetal deaths
- skeletal malformations

Delayed and immediate effects and also chronic effects from short and long term exposure

Conclusion/Summary

There are no data available on the mixture itself. This product either contains formaldehyde or is capable of releasing formaldehyde above 0.5 ppm under certain conditions. Formaldehyde is a known cancer hazard, a skin sensitizer and a respiratory sensitizer. Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Short term exposure

Potential immediate effects

There are no data available on the mixture itself.

Potential delayed effects

There are no data available on the mixture itself.

Long term exposure

Potential immediate effects

There are no data available on the mixture itself.

Potential delayed effects

There are no data available on the mixture itself.

Potential chronic health effects

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

Suspected of damaging fertility or the unborn child.

Numerical measures of toxicity

Acute toxicity estimates
Section 11. Toxicological information

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Oral (mg/kg)</th>
<th>Dermal (mg/kg)</th>
<th>Inhalation (gases) (ppm)</th>
<th>Inhalation (vapors) (mg/l)</th>
<th>Inhalation (dusts and mists) (mg/l)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMERLOCK SEALER CURE</td>
<td>933</td>
<td>1954.3</td>
<td>N/A</td>
<td>1.3</td>
<td>0.63</td>
</tr>
<tr>
<td>furfuryl alcohol</td>
<td>500</td>
<td>1100</td>
<td>N/A</td>
<td>0.934</td>
<td>0.5</td>
</tr>
<tr>
<td>Poly[oxy(methyl-1,2-ethanediyl)], α- (2-aminomethyl) -ω-(2-aminomethylthoxy)-</td>
<td>2885</td>
<td>2980</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich</td>
<td>N/A</td>
<td>16000</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>benzyl alcohol</td>
<td>1230</td>
<td>2000</td>
<td>N/A</td>
<td>N/A</td>
<td>1.5</td>
</tr>
<tr>
<td>Formaldehyde, polymer with benzenamine, hydrogenated</td>
<td>500</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>2,4,6-tris(dimethylaminomethyl) phenol</td>
<td>1200</td>
<td>1280</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>4-nonylphenol, branched</td>
<td>1300</td>
<td>2140</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>3,6-diazaocanethylenediamin</td>
<td>1716</td>
<td>1465</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>salicylic acid</td>
<td>891</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>4',4'-methylenbis(cyclohexylamine)</td>
<td>625</td>
<td>2110</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Phenol, 2-nonyl-, branched</td>
<td>500</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Other information : Not available.

Section 12. Ecological information

**Ecotoxicity**

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

**Persistence/degradability**
## 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)ω-(2-aminomethylethoxy)-</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>

### 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>0.3</td>
<td>-</td>
<td>low</td>
</tr>
<tr>
<td>1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich</td>
<td>8.8</td>
<td>-</td>
<td>high</td>
</tr>
<tr>
<td>benzyl alcohol</td>
<td>0.87</td>
<td>-</td>
<td>low</td>
</tr>
<tr>
<td>Formaldehyde, polymer with benzenamine, hydrogenated 2,4,6-tris(dimethylaminomethyl)phenol</td>
<td>-</td>
<td>209 to 219</td>
<td>low</td>
</tr>
<tr>
<td>4-nonylphenol, branched 3,6-diazaoctanethylenediamin salicylic acid</td>
<td>0.219</td>
<td>-</td>
<td>low</td>
</tr>
<tr>
<td>4,4'-methylenebis(cyclohexylamine)</td>
<td>5.4</td>
<td>251.19</td>
<td>low</td>
</tr>
</tbody>
</table>

#### Mobility in soil

- **Soil/water partition coefficient (K\(_{oc}\))**: Not available.

#### Other adverse effects

- No known significant effects or critical hazards.

## Section 13. Disposal considerations

### Disposal methods

The generation of waste should be avoided or minimized 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. 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>UN number</th>
<th>UN</th>
<th>Brazil (ANTT)</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN proper shipping name</td>
<td>PAINT</td>
<td>PAINT</td>
<td>PAINT</td>
<td>PAINT</td>
</tr>
<tr>
<td>Transport hazard class(es)</td>
<td>8</td>
<td>8</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>Packing group</td>
<td>II</td>
<td>II</td>
<td>II</td>
<td>II</td>
</tr>
<tr>
<td>Environmental hazards</td>
<td>Yes. The environmentally hazardous substance mark is not required. Not applicable.</td>
<td>Yes. The environmentally hazardous substance mark is not required. Not applicable.</td>
<td>Yes.</td>
<td>Yes. The environmentally hazardous substance mark is not required. Not applicable.</td>
</tr>
<tr>
<td>Marine pollutant substances</td>
<td>(4-nonylphenol, branched, 4,4'-methylenebis (cyclohexylamine))</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Additional information
- UN: None identified.
- Brazil: None identified.
- Risk number: 80
- 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.

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.

Transport in bulk according to IMO instruments: Not applicable.

Section 15. Regulatory information

Safety, health and environmental regulations specific for the product: No known specific national and/or regional regulations applicable to this product (including its ingredients).

Section 16. Other information

History
- Date of previous issue: 4/29/2021
- Version: 5
- EHS
**Section 16. Other information**

**Key to abbreviations**
- ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
- ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
- ATE = Acute Toxicity Estimate
- BCF = Bioconcentration Factor
- GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- IATA = International Air Transport Association
- IMDG = International Maritime Dangerous Goods
- LogPow = logarithm of the octanol/water partition coefficient
- RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
- UN = United Nations

**References**
- ABNT NBR 14725-4: 2014
- ANTT - National Land Transportation Agency

*Indicates information that has changed from previously issued version.*

**Disclaimer**

*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 PPG, 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.*