# **SAFETY DATA SHEET**

#### **AMERLOCK 2 CURE**



Date of issue 14 March 2024

**Version 2** 

# 1. Product and company identification

Product name : AMERLOCK 2 CURE

Product code : 00445509 Product type : Liquid.

#### 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 : Not applicable.

Supplier's details : PPG PMC Japan Co., Ltd., 8F, Shintetsu Bldg., 1-1, Daikaidori 1-chome, Kobe

652-0803 Japan; Tel: +81-78-574-2777

**Emergency telephone** 

number

: 078 574 2777

# 2. Hazards identification

GHS Classification : FLAMMABLE LIQUIDS - Category 4

SKIN CORROSION - Category 1 SERIOUS EYE DAMAGE - Category 1

**RESPIRATORY SENSITIZATION - Category 1** 

SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 1A

TOXIC TO REPRODUCTION - Category 1A

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 HAZARDOUS TO THE AQUATIC ENVIRONMENT - ACUTE HAZARD - Category 1

HAZARDOUS TO THE AQUATIC ENVIRONMENT - CHRONIC HAZARD -

Category 1

**GHS label elements** 

Hazard pictograms







Signal word : Danger

**Hazard statements** : Combustible liquid.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause cancer.

May damage fertility or the unborn child.

Causes damage to organs. (central nervous system (CNS), kidneys, liver,

respiratory organs)

Japan Page: 1/16

# 2. Hazards identification

Causes damage to organs through prolonged or repeated exposure. (bladder, central nervous system (CNS), kidneys, nervous system, respiratory organs) Very toxic to aquatic life with long lasting effects.

# Precautionary statements Prevention

: Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Wear respiratory protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

#### Response

Collect spillage. IF exposed or concerned: Call a POISON CENTER or doctor. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor. If experiencing respiratory symptoms: 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: 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 Disposal

: Store locked up.

: Dispose of contents and container in accordance with all local, regional, national

and international regulations.

Other hazards which do not result in classification

Other hazards which do not : Causes digestive tract burns.

# 3. Composition/information on ingredients

Substance/mixture : Mixture

#### **CAS** number/other identifiers

**CAS number** : Not applicable. **CSCL number** : Not available.

| Ingredient name   | %          | CAS number          | CSCL           |
|---|------------|---------------------|----------------|
| <b> F</b> alc containing no asbestos or quartz  | 25 - <50   | 14807-96-6          | Not available. |
| barium sulfate  | 12.5 - <15 | 7727-43-7           | 1-89           |
| nonylphenol   | 12.5 - <15 | 25154-52-3          | 3-503          |
| benzyl alcohol  | 7 - <10    | 100-51-6            | 3-1011         |
| diisodecyl phthalate  | 3 - <5     | 68515-49-1          | 3-1307         |
| m-Xylylenediamine   | 3 - <5     | 1477-55-0           | 3-2888; 3-308  |
| Xylene  | 3 - <5     | 1330-20-7           | 3-3; 3-60      |
| Polyaminoamide  | 3 - <5     | 68082-29-1          | 7-401          |
| 4-tert-butylphenol  | 3 - <5     | 98-54-4             | 3-503          |
| Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and    | 2 - <3     | 68082-29-1          | 7-401          |
| triethylenetetramine  |            |                     |                |
| Poly[oxy(methyl-1,2-ethanediyl)], α-  | 2 - <3     | 9046-10-0 (n = 2-6) | (7)-324        |
| (2-aminomethylethyl)-ω-(2-aminomethylethoxy)-<br>Phenol, 4,4'-(1-methylethylidene)bis-, polymer | 2 - <3     | 36704-31-1          | Not available. |
| with 2-(chloromethyl)oxirane and  |            |                     |                |
| 1,2-ethanediamine   |            |                     |                |
| 4-Nonylphenol (branched)  | 1 - <2     | 84852-15-3          | 3-503          |

Japan Page: 2/16

# Product code 00445509 Date of issue 14 March 2024 Version 2 Product name AMERLOCK 2 CURE

# 3. Composition/information on ingredients

| Ethanol   | 0.5 - <1    | 64-17-5    | 2-202          |
|---|-------------|------------|----------------|
| Ethylbenzene                                    | 0.5 - <1    | 100-41-4   | 3-28; 3-60     |
| Amines, polyethylenepoly-, triethylenetetramine | 0.2 - < 0.5 | 90640-67-8 | Not available. |
| fraction  |             |            |                |
| Polyamidoamine                                  | 0.2 - < 0.5 | SUB104580  | Not available. |

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.

## 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.

#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

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

Inhalation : May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin contact : Causes severe burns. Causes damage to organs following a single exposure in

contact with skin. May cause an allergic skin reaction.

Ingestion : Corrosive to the digestive tract. Causes burns. Causes damage to organs following

a single exposure if swallowed.

#### Over-exposure signs/symptoms

**Eye contact**: Adverse symptoms may include the following:

pain watering redness

Inhalation : Adverse symptoms may include the following:

wheezing and breathing difficulties

asthma

reduced fetal weight increase in fetal deaths skeletal malformations

**Skin contact**: Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations

Japan Page: 3/16

Product code 00445509 Date of issue 14 March 2024 Version 2

**Product name AMERLOCK 2 CURE** 

### 4. First aid measures

Ingestion

: Adverse symptoms may include the following:

stomach pains reduced fetal weight increase in fetal deaths skeletal malformations

#### 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.

**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.

See toxicological information (Section 11)

# 5. Fire-fighting measures

#### **Extinguishing media**

Suitable extinguishing

media

: Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

**Unsuitable extinguishing** 

media

: Do not use water jet.

Specific hazards arising from the chemical

: Combustible liquid. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is very 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 sulfur oxides

halogenated compounds metal oxide/oxides

for fire-fighters

Special protective actions : 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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

**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.

# 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. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

> Japan Page: 4/16

Product code 00445509

Date of issue 14 March 2024

Version 2

**Product name AMERLOCK 2 CURE** 

# 6. Accidental release measures

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".

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. Use spark-proof tools and explosion-proof equipment. 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. Use spark-proof tools and explosion-proof equipment. 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 noncombustible, 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.

# 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 or asthma, allergies or chronic or recurrent respiratory disease 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. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. Do not reuse container.

Conditions for safe storage: Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. 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. Eliminate all ignition sources. Separate from oxidizing materials. 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.

> Japan Page: 5/16

Date of issue 14 March 2024 **Version 2** Product code 00445509

**Product name AMERLOCK 2 CURE** 

# 8. Exposure controls/personal protection

#### **Control parameters**

**Occupational exposure limits** 

| Ingredient name                       | Exposure limits   |
|---------------------------------------|---|
| ralc containing no asbestos or quartz | Japan Society for Occupational Health (Japan, 9/2022). [Class 1 dusts (Activated charcoal, Alumina, Aluminium, Bentonite, Diatomite, Graphite, Kaolinite, Pagodite, Pyrites, Pyrite cinder, Talc)]  OEL-M: 0.5 mg/m³ 8 hours. Form: Respirable dust (Class 1 Dust)  OEL-M: 2 mg/m³ 8 hours. Form: Total dust (Class 1 Dust) |
| benzyl alcohol                        | Japan Society for Occupational Health (Japan, 9/2022). Skin sensitizer. OEL-C: 25 mg/m³   |
| m-Xylylenediamine                     | Japan Society for Occupational Health (Japan, 9/2022). Skin sensitizer.   |
| Xylene                                | Industrial Safety and Health Act (Japan, 6/2020). [xylene]  TWA: 50 ppm 8 hours.  Japan Society for Occupational Health (Japan, 9/2022).  OEL-M: 50 ppm 8 hours.  OEL-M: 217 mg/m³ 8 hours.   |
| Ethylbenzene                          | Japan Society for Occupational Health (Japan, 9/2022). Absorbed through skin. OEL-M: 87 mg/m³ 8 hours. OEL-M: 20 ppm 8 hours. Industrial Safety and Health Act (Japan, 6/2020). TWA: 20 ppm 8 hours.  |

procedures

**Recommended monitoring**: 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. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

**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 Skin protection**  : Chemical splash goggles and face shield.

**Japan** Page: 6/16 Product code 00445509 Date of issue 14 March 2024 Version 2

**Product name AMERLOCK 2 CURE** 

# 8. Exposure controls/personal protection

**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.

**Gloves** 

: butyl rubber

**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** 

: See an air-fed respirator unless a site-specific assessment determines that an air-fed respirator is not necessary, in which case the results of the risk assessment should be utilized to determine whether respiratory protection is necessary and what type of protection is appropriate. 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.

# 9. Physical and chemical properties

**Appearance** 

Physical state : Liquid.

Odor : Characteristic.

Boiling point : >37.78°C (>100°F)

Flash point : Closed cup: 62°C (143.6°F)

Relative density : 1.41

Solubility(ies)

MediaResultFold waterNot soluble

# 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.

Hazardous decomposition products

: Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides halogenated compounds metal oxide/oxides

Japan Page: 7/16

Date of issue 14 March 2024 Version 2

# 11. Toxicological information

# Information on toxicological effects

### **Acute toxicity**

| Product/ingredient name       | Result                          | Species     | Dose                    | Exposure |
|-------------------------------|---------------------------------|-------------|-------------------------|----------|
| parium sulfate                | LD50 Dermal                     | Rat         | >2000 mg/kg             | -        |
|                               | LD50 Oral                       | Rat         | >5000 mg/kg             | -        |
| nonylphenol                   | LD50 Dermal                     | Rabbit      | 2.14 g/kg               | -        |
|                               | LD50 Oral                       | Rat         | 580 mg/kg               | -        |
| benzyl alcohol                | LC50 Inhalation Dusts and mists | Rat         | >4178 mg/m <sup>3</sup> | 4 hours  |
|                               | LD50 Dermal                     | Rabbit      | 2000 mg/kg              | -        |
|                               | LD50 Oral                       | Rat         | 1.23 g/kg               | -        |
| diisodecyl phthalate          | LD50 Dermal                     | Rabbit      | 16000 mg/kg             | -        |
|                               | LD50 Oral                       | Rat         | >60000 mg/kg            | -        |
| m-Xylylenediamine             | LC50 Inhalation Gas.            | Rat         | 700 ppm                 | 1 hours  |
|                               | LD50 Dermal                     | Rat - Male, | >3100 mg/kg             | -        |
|                               |                                 | Female      |                         |          |
|                               | LD50 Oral                       | Rat         | 930 mg/kg               | -        |
| Xylene                        | LD50 Dermal                     | Rabbit      | 1.7 g/kg                | -        |
|                               | LD50 Oral                       | Rat         | 4.3 g/kg                | -        |
| 4-tert-butylphenol            | LD50 Dermal                     | Rabbit      | 2.29 g/kg               | -        |
|                               | LD50 Oral                       | Rat         | 2.95 g/kg               | -        |
| Fatty acids, C18-unsatd.,     | LD50 Dermal                     | Rat         | >2000 mg/kg             | -        |
| dimers, oligomeric reaction   |                                 |             |                         |          |
| products with tall-oil fatty  |                                 |             |                         |          |
| acids and                     |                                 |             |                         |          |
| triethylenetetramine          |                                 |             |                         |          |
|                               | LD50 Oral                       | Rat         | >2000 mg/kg             | -        |
| Poly[oxy(methyl-              | LD50 Dermal                     | Rat         | 2980 mg/kg              | -        |
| 1,2-ethanediyl)], α-          |                                 |             |                         |          |
| (2-aminomethylethyl)-ω-       |                                 |             |                         |          |
| (2-aminomethylethoxy)-        |                                 |             |                         |          |
|                               | LD50 Oral                       | Rat         | 2885 mg/kg              | -        |
| 4-Nonylphenol (branched)      | LD50 Dermal                     | Rabbit      | 2.14 g/kg               | -        |
|                               | LD50 Oral                       | Rat         | 1300 mg/kg              | -        |
| Ethanol                       | LC50 Inhalation Vapor           | Rat         | 124700 mg/m³            | 4 hours  |
|                               | LD50 Dermal                     | Rat         | 17100 mg/kg             | -        |
|                               | LD50 Oral                       | Rat         | 7 g/kg                  | -        |
| Ethylbenzene                  | LC50 Inhalation Vapor           | Rat         | 17.8 mg/l               | 4 hours  |
|                               | LD50 Dermal                     | Rabbit      | 17.8 g/kg               | -        |
|                               | LD50 Oral                       | Rat         | 3.5 g/kg                | -        |
| Amines, polyethylenepoly-,    | LD50 Dermal                     | Rabbit      | 1465 mg/kg              | -        |
| triethylenetetramine fraction |                                 |             |                         |          |
|                               | LD50 Oral                       | Rat         | 1716 mg/kg              | -        |
| Polyamidoamine                | LD50 Oral                       | Rat         | >2 g/kg                 | -        |

## **Irritation/Corrosion**

| Product/ingredient name   | Result                   | Species | Score | Exposure           | Observation |
|---|--------------------------|---------|-------|--------------------|-------------|
| m-Xylylenediamine   | Skin - Severe irritant   | Rat     | -     | 4 hours            | 4 hours     |
| Xylene  | Skin - Moderate irritant | Rabbit  | -     | 24 hours 500<br>mg | -           |
| Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine | Eyes - Severe irritant   | Rabbit  | -     | -                  | -           |
| •   | Skin - Irritant          | Human   | -     | -                  | -           |
| 4-Nonylphenol (branched)  | Skin - Erythema/Eschar   | Rabbit  | 4     | -                  | -           |

## **Sensitization**

Japan Page: 8/16

| Product code 00445509        | Date of issue 14 March 2024 | Version 2 |
|------------------------------|-----------------------------|-----------|
| Product name AMERLOCK 2 CURE |                             |           |

# 11. Toxicological information

| Product/ingredient name   | Route of exposure | Species | Result      |
|---|-------------------|---------|-------------|
| m-Xylylenediamine Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine | skin              | Mouse   | Sensitizing |
|   | skin              | Mouse   | Sensitizing |

## **Mutagenicity**

Not available.

## Carcinogenicity

Not available.

### **Reproductive toxicity**

Not available.

### **Teratogenicity**

Not available.

### Specific target organ toxicity (single exposure)

| Name   | Category              | Route of exposure | Target organs                         |
|--|-----------------------|-------------------|---------------------------------------|
| √alc containing no asbestos or quartz                    | Category 1            | -                 | respiratory organs                    |
| nonylphenol  | Category 3            | -                 | Respiratory tract irritation          |
| benzyl alcohol   | Category 1            | _                 | central nervous                       |
| Soniz y allooner   | January 1             |                   | system (CNS),                         |
|  |                       |                   | kidneys                               |
|  | Category 3            |                   | Narcotic effects                      |
| m-Xylylenediamine  | Category 1            | -                 | respiratory organs                    |
| Xylene   | Category 1            | -                 | central nervous                       |
|  |                       |                   | system (CNS),                         |
|  |                       |                   | kidneys, liver,<br>respiratory organs |
|  | Category 3            |                   | Narcotic effects                      |
| 4-tert-butylphenol                                       | Category 3            | _                 | Respiratory tract                     |
| ,  |                       |                   | irritation                            |
| 4-Nonylphenol (branched)                                 | Category 3            | -                 | Respiratory tract                     |
|  |                       |                   | irritation                            |
|  | Category 3            |                   | Narcotic effects                      |
| Ethanol  | Category 3            | -                 | Respiratory tract                     |
|  | Cotomom / 2           |                   | irritation                            |
| Ethylbenzene   | Category 3 Category 3 |                   | Narcotic effects Respiratory tract    |
| Lutybetizette  | Calegory 3            | [-                | irritation                            |
|  | Category 3            |                   | Narcotic effects                      |
| Amines, polyethylenepoly-, triethylenetetramine fraction | Category 1            | _                 | respiratory tract                     |
| Polyamidoamine   | Category 3            | _                 | Respiratory tract                     |
|  |                       |                   | irritation                            |

Specific target organ toxicity (repeated exposure)

Japan Page: 9/16

Date of issue 14 March 2024 Version 2

**Product name AMERLOCK 2 CURE** 

Product code 00445509

# 11. Toxicological information

| Name  | Category   | Route of exposure | Target organs                      |
|---|------------|-------------------|------------------------------------|
| <b>r</b> alc containing no asbestos or quartz | Category 1 | -                 | respiratory organs                 |
| barium sulfate                                | Category 1 | -                 | respiratory organs                 |
| nonylphenol                                   | Category 2 | -                 | bladder, kidneys                   |
| benzyl alcohol                                | Category 1 | -                 | central nervous system (CNS)       |
| m-Xylylenediamine                             | Category 1 | -                 | respiratory organs                 |
| Xylene  | Category 1 | -                 | nervous system, respiratory organs |
| 4-Nonylphenol (branched)                      | Category 2 | -                 | kidneys, liver                     |
| Ethanol                                       | Category 1 | -                 | liver                              |
|   | Category 2 |                   | central nervous system (CNS)       |
| Ethylbenzene                                  | Category 1 | -                 | hearing organs,<br>nervous system  |

#### **Aspiration hazard**

| Name | Result  |
|------|---|
|      | ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 |

Information on the likely

routes of exposure

### Potential acute health effects

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

Inhalation : May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Skin contact**: Causes severe burns. Causes damage to organs following a single exposure in

contact with skin. May cause an allergic skin reaction.

Ingestion : Corrosive to the digestive tract. Causes burns. Causes damage to organs following

a single exposure if swallowed.

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

**Eye contact** : Adverse symptoms may include the following:

: Not available.

pain watering redness

**Inhalation** : Adverse symptoms may include the following:

wheezing and breathing difficulties

asthma

reduced fetal weight increase in fetal deaths skeletal malformations

**Skin contact**: Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations

Japan Page: 10/16

Product code 00445509 Date of issue 14 March 2024 Version 2

**Product name AMERLOCK 2 CURE** 

# 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

**Short term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

General : Causes damage to organs through prolonged or repeated exposure. Once

sensitized, a severe allergic reaction may occur when subsequently exposed to very

low levels.

**Carcinogenicity** : May cause cancer. Risk of cancer depends on duration and level of exposure.

**Mutagenicity**: No known significant effects or critical hazards.

**Reproductive toxicity**: May damage fertility or the unborn child.

### **Numerical measures of toxicity**

### **Acute toxicity estimates**

| Product/ingredient name   | Oral (mg/<br>kg) | Dermal<br>(mg/kg) | Inhalation<br>(gases)<br>(ppm) | Inhalation<br>(vapors)<br>(mg/l) | Inhalation<br>(dusts<br>and mists)<br>(mg/l) |
|---|------------------|-------------------|--------------------------------|----------------------------------|--|
| MERLOCK 2 CURE  | 2623.1           | 3538.6            | N/A                            | 266.3                            | 10.8   |
| barium sulfate  | N/A              | 2500              | N/A                            | N/A                              | N/A  |
| nonylphenol   | 580              | 2140              | N/A                            | N/A                              | N/A  |
| benzyl alcohol  | 1230             | 2000              | N/A                            | N/A                              | N/A  |
| diisodecyl phthalate  | N/A              | 16000             | N/A                            | N/A                              | N/A  |
| m-Xylylenediamine   | 930              | 1100              | N/A                            | N/A                              | 0.5  |
| Xylene  | 4300             | 1700              | N/A                            | 11                               | N/A  |
| 4-tert-butylphenol  | 2950             | 2290              | N/A                            | N/A                              | N/A  |
| Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine | 2500             | 2500              | N/A                            | N/A                              | N/A  |
| Poly[oxy(methyl-1,2-ethanediyl)], α-<br>(2-aminomethylethyl)-ω-(2-aminomethylethoxy)-                             | 2885             | 2980              | N/A                            | N/A                              | N/A  |
| 4-Nonylphenol (branched)  | 1300             | 2140              | N/A                            | N/A                              | N/A  |
| Ethanol   | 7000             | 17100             | N/A                            | 124.7                            | N/A  |
| Ethylbenzene  | 3500             | 17800             | N/A                            | 17.8                             | N/A  |
| Amines, polyethylenepoly-, triethylenetetramine fraction  | 1716             | 1465              | N/A                            | N/A                              | N/A  |
| Polyamidoamine  | 2500             | N/A               | N/A                            | N/A                              | N/A  |

Other information :

Japan Page: 11/16

Product code 00445509 Date of issue 14 March 2024 Version 2

**Product name AMERLOCK 2 CURE** 

# 11. Toxicological information

Causes digestive tract burns. Sanding and grinding dusts may be harmful if inhaled. 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. Exposure to amine vapor has been reported to cause transient corneal edema described as blue haze, halo effect, foggy or blurred vision for several hours. This condition is typically temporary and does not cause permanent visual effects. When the proper eye protection specified in Section 8 is worn, exposure is significantly reduced and the condition has not been observed.

# 12. Ecological information

#### **Toxicity**

| Product/ingredient name   | Result   | Species  | Exposure                         |
|---|--|--|----------------------------------|
| nonylphenol   | Acute EC50 0.056 mg/l Fresh water                                  | Algae - Desmodesmus subspicatus  | 72 hours                         |
|   | Chronic EC10 0.003 mg/l Fresh water                                | Algae - Desmodesmus subspicatus  | 72 hours                         |
|   | Chronic NOEC 1 µg/l Fresh water                                    | Daphnia - <i>Daphnia magna</i>   | 21 days                          |
| Fatty acids, C18-unsatd.,<br>dimers, oligomeric reaction<br>products with tall-oil fatty<br>acids and<br>triethylenetetramine | EC10 1.78 mg/l   | Algae  | 72 hours                         |
| Poly[oxy(methyl-<br>1,2-ethanediyl)], α-<br>(2-aminomethylethyl)-ω-<br>(2-aminomethylethoxy)-                                 | EC50 15 mg/l   | Algae  | 72 hours                         |
| 4-Nonylphenol (branched)  | Acute EC50 0.044 mg/l  | Crustaceans - Moina macrocopa  | 48 hours                         |
| <b>-</b>  | Acute LC50 0.221 mg/l  | Fish   | 96 hours                         |
| Ethanol   | Acute EC50 7640 mg/l Fresh water                                   | Daphnia - Daphnia magna  | 48 hours                         |
| Ethylbenzene  | Acute EC50 1.8 mg/l Fresh water Chronic NOEC 1 mg/l Fresh water    | Daphnia<br>Daphnia - <i>Ceriodaphnia dubia</i>                               | 48 hours                         |
| Amines, polyethylenepoly-, triethylenetetramine fraction  | Acute EC50 20 mg/l   | Aquatic plants - Daphnia magna   | 72 hours                         |
| •   | Acute EC50 31.1 mg/l<br>Acute LC50 330 mg/l<br>Acute NOEC 2.5 mg/l | Daphnia - <i>Daphnia magna</i> Fish - <i>Pimephales promelas</i> Crustaceans | 48 hours<br>96 hours<br>72 hours |

### Persistence/degradability

| Product/ingredient name  | Test       | Result   |                  | Dose |                               | Inoculum   |
|--|------------|----------|------------------|------|-------------------------------|------------|
| <b>E</b> thylbenzene   | -          | 79 % - R | eadily - 10 days | -    |                               | -          |
| Product/ingredient name  | Aquatic ha | If-life  | Photolysis       | ·    | Biodeg                        | radability |
| penzyl alcohol Xylene Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine Poly[oxy(methyl- 1,2-ethanediyl)], α- (2-aminomethylethyl)-ω- (2-aminomethylethoxy)- | -          |          | -<br>-<br>-      |      | Readily<br>Readily<br>Not rea | y<br>adily |
| Ethanol<br>Ethylbenzene  | -          |          | -                |      | Readily<br>Readily            |            |

Japan Page: 12/16

Date of issue 14 March 2024 Version 2

Product code 00445509

**Product name AMERLOCK 2 CURE** 

# 12. Ecological information

#### **Bioaccumulative potential**

| Product/ingredient name                                  | LogPow | BCF         | Potential |
|--|--------|-------------|-----------|
| nylphenol  | 3.28   | 154.88      | Low       |
| benzyl alcohol   | 0.87   | -           | Low       |
| diisodecyl phthalate                                     | 8.8    | -           | High      |
| m-Xylylenediamine  | 0.18   | 2.69        | Low       |
| Xylene   | 3.12   | 7.4 to 18.5 | Low       |
| 4-tert-butylphenol                                       | 3      | 67.61       | Low       |
| 4-Nonylphenol (branched)                                 | 5.4    | 251.19      | Low       |
| Ethanol  | -0.35  | -           | Low       |
| Ethylbenzene   | 3.6    | 79.43       | Low       |
| Amines, polyethylenepoly-, triethylenetetramine fraction | -2.65  | -           | Low       |

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

Mobility : Not available.

Other adverse effects : No known significant effects or critical hazards.

# 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. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# 14. Transport information

|                            | UN   | IMDG   | IATA   |
|----------------------------|--|--------|--|
| UN number                  | UN3066   | UN3066 | UN3066   |
| UN proper shipping name    | PAINT  | PAINT  | PAINT  |
| Transport hazard class(es) | 8  | 8      | 8  |
| Packing group              | II   | II     | II   |
| Environmental hazards      | Yes. The environmentally hazardous substance mark is not required. | Yes.   | Yes. The environmentally hazardous substance mark is not required. |

Japan Page: 13/16

#### Product code 00445509 Date of issue 14 March 2024 Version 2

**Product name AMERLOCK 2 CURE** 

# 14. Transport information

| Marine pollutant | Not applicable. | (nonylphenol) | Not applicable. |
|------------------|-----------------|---------------|-----------------|
| substances       |                 |               |                 |

#### **Additional information**

UN : None identified.

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

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

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 : Not applicable.

to IMO instruments

# 15. Regulatory information

### **Fire Service Law**

| Category    | Substance name/Type | Danger category | Signal word                | Designated quantity |
|-------------|---------------------|-----------------|----------------------------|---------------------|
| Category IV | Class II petroleums | III             | Flammable - Keep Fire Away | 1000 L              |

### Pollutant Release and Transfer Registers (PRTR)

| %         | Status  | Reference number       |
|-----------|---------|------------------------|
| 15<br>3.6 | Class 1 | 320<br>80<br>368       |
|           | 15      | 15 Class 1 3.6 Class 1 |

### **Industrial Safety and Health Act**

### Ordinance on the Prevention of the Hazard due to Specified Chemical Substances

None of the components are listed.

### Substance(s) requiring labelling

| Ingredient name   | %   | Status | Reference number             |
|-------------------|-----|--------|------------------------------|
| Benzyl alcohol    | ≤10 | Listed | 530-2,<br>530-4<br>(2024-04) |
| m-Xylylenediamine | ≤10 | Listed | 555 ´                        |
| Xylene            | ≤10 | Listed | 136                          |
| Ethanol           | ≤10 | Listed | 61                           |
| Ethylbenzene      | ≤10 | Listed | 70                           |

### **Chemicals requiring notification**

Page: 14/16 **Japan** 

Product code 00445509 Date of issue 14 March 2024 Version 2 **Product name AMERLOCK 2 CURE** 

# 15. Regulatory information

| Ingredient name        | %   | Status | Reference number             |
|------------------------|-----|--------|------------------------------|
| <b>B</b> enzyl alcohol | ≤10 | Listed | 530-2,<br>530-4<br>(2024-04) |
| m-Xylylenediamine      | ≤10 | Listed | 555                          |
| Xylene                 | ≤10 | Listed | 136                          |
| Ethanol                | ≤10 | Listed | 61                           |
| Ethylbenzene           | ≤10 | Listed | 70                           |

### Carcinogens based on Article 577-2 of the Ordinance on ISH

None of the components are listed.

### **Mutagen**

None of the components are listed.

**Corrosive liquid** : Not listed **Occupational Safety and** : Inflammable

**Health Law** 

: Not listed Regulations on the

**Prevention of Tetraalkyl** 

**Lead Poisoning** 

**Harmful Substances** : Not listed

**Subject to Obtaining Permission for** Manufacturing

Harmful Substances,

**Prohibited for** Manufacturing : Not listed

: Inflammable

**ISHL Enforcement Order** 

**Appendix 1 - Dangerous** 

**Substances** 

**Lead regulation** : Not listed **Organic solvents** : Not applicable.

poisoning prevention

### **Poisonous and Deleterious Substances**

| Ingredient name | %      | Status      | Reference number |
|-----------------|--------|-------------|------------------|
| nonylphenol     | 13.824 | Deleterious | 2-1-78-2         |

## **Chemical Substances Control Law (CSCL)**

| Ingredient name        | %   | Status              | Reference number |
|------------------------|-----|---------------------|------------------|
| <b>X</b> ylene         | ≤10 | Priority assessment | 125              |
| Ethylbenzene           | ≤10 | Priority assessment | 50               |
| Toluene                | ≤10 | Priority assessment | 46               |
| Methyl isobutyl ketone | ≤10 | Priority assessment | 116              |
| Benzene                | ≤10 | Priority assessment | 45               |

**High Pressure Gas Control**: Not available.

# **Explosives Control Law**

| Japa | n Page: 15/16 |
|------|---------------|
|------|---------------|

Date of issue 14 March 2024 **Version 2** Product code 00445509

**Product name AMERLOCK 2 CURE** 

# 15. Regulatory information

None of the components are listed.

Law concerning prevention : Not available.

of pollution of the ocean

#### **Maritime Safety Law**

### Notification Regulating Transportation of Dangerous Materials by Sea

None of the components are listed.

#### **Container class**

None of the components are listed.

: Group 2B **JSOH Carcinogen List of Specially Controlled** : Not listed

**Industrial Waste** Japan inventory

: At least one component is not listed.

**Road law** : Not available.

## 16. Other information

#### **History**

Date of issue/Date of

revision

: 14 March 2024

**Date of previous issue** : 10/5/2021

Version : 2 **Prepared by** : EHS

**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

MARPOL = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

RID = The Regulations concerning the International Carriage of Dangerous Goods

by Rail

**UN = United Nations** 

Indicates information that has changed from previously issued version.

#### Notice to reader

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 quarantee 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.

Japan Page: 16/16