# SAFETY DATA SHEET



Date of issue/Date of revision 8 November 2022

**Version 4** 

# Section 1. Identification of the substance/mixture and of the company/undertaking

Product code : 00313945

Product name : SIGMACOVER 350 BASE REDBROWN

Other means of : Not available.

identification

Product type : Liquid.

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

Product use : Coating.

Professional applications, Used by spraying.

**Uses advised against**: Product is not intended, labelled or packaged for consumer use.

**Supplier's details**: PPG Coatings (Thailand) Co., Ltd.

15 Rama 9 Road, Kwaeng Huamark, Khet Bangkapi, Bangkok 10240 Thailand

T: 662-319-4190 #224 F: 662-319-4189

**Emergency telephone** number (with hours of

operation)

: CHEMTREC 001-800-13-203-9987 (CCN 17704)

### Section 2. Hazards identification

Classification of the substance or mixture

: FLAMMABLE LIQUIDS - Category 3
ACUTE TOXICITY (oral) - Category 5
ACUTE TOXICITY (dermal) - Category 5
ACUTE TOXICITY (inhalation) - Category 4
SKIN CORROSION/IRRITATION - Category 2

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1

SKIN SENSITIZATION - Category 1B

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract

irritation) - Category 3

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

AQUATIC HAZARD (ACUTE) - Category 3 AQUATIC HAZARD (LONG-TERM) - Category 3

Thailand Page: 1/15

### Section 2. Hazards identification

Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 26.4%

Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 54.4%

Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 62.9%

Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 73.8%

### **GHS label elements**

**Hazard pictograms** 









Signal word

**Hazard statements** 

: Danger

Flammable liquid and vapor.

May be harmful if swallowed or in contact with skin.

Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye damage.

Harmful if inhaled.

May cause respiratory irritation.

May cause damage to organs through prolonged or repeated exposure.

Harmful to aquatic life with long lasting effects.

### Precautionary statements

**Prevention** 

Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Do not breathe vapor. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

Response

INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Take off contaminated clothing and wash before reuse. 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 locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

**Disposal** 

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

Thailand Page: 2/15

**Product name SIGMACOVER 350 BASE REDBROWN** 

### Section 2. Hazards identification

Other hazards which do not : Prolonged or repeated contact may dry skin and cause irritation.

result in classification

### Section 3. Composition/information on ingredients

: Mixture Substance/mixture

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

**CAS** number : Not applicable.

| Ingredient name   | %   | CAS number  |
|---|---|---|
| Epoxy Resin (700 <mw<=1100) (<10="" ,="" 2-methylpropan-1-ol="" alcohol="" asbestiform="" benzyl="" bis-[4-(2,3-epoxipropoxi)phenyl]propane="" containing="" crystalline="" ethylbenzene="" fibres="" microns)<="" not="" powder="" respirable="" silica,="" talc="" td="" xylene=""><td>10- &lt;20<br/>10- &lt;20<br/>5- &lt;10<br/>5- &lt;10<br/>3 - &lt;5<br/>3 - &lt;5<br/>1- &lt;3</td><td>25036-25-3<br/>1330-20-7<br/>14807-96-6<br/>1675-54-3<br/>100-51-6<br/>78-83-1<br/>100-41-4<br/>14808-60-7</td></mw<=1100)> | 10- <20<br>10- <20<br>5- <10<br>5- <10<br>3 - <5<br>3 - <5<br>1- <3 | 25036-25-3<br>1330-20-7<br>14807-96-6<br>1675-54-3<br>100-51-6<br>78-83-1<br>100-41-4<br>14808-60-7 |
| 12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine   | 1- <3   | 220926-97-6   |

There are no 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.

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.

: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and Skin contact

water or use recognized skin cleanser. Do NOT use solvents or thinners.

: If swallowed, seek medical advice immediately and show this container or label. Ingestion

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 : Harmful if inhaled. May cause respiratory irritation.

**Thailand** Page: 3/15

#### **Product name SIGMACOVER 350 BASE REDBROWN**

### Section 4. First aid measures

Skin contact : May be harmful in contact with skin. Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.

**Ingestion**: May be harmful if swallowed.

Over-exposure signs/symptoms

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

pain watering redness

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

respiratory tract irritation

coughing

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

pain or irritation

redness dryness cracking

blistering may occur

Ingestion : Adverse symptoms may include the following:

stomach pains

### 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)

### Section 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

: Flammable liquid and vapor. 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 harmful 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.

Thailand Page: 4/15

Product code 00313945

Date of issue 8 November 2022 **Version 4** 

**Product name SIGMACOVER 350 BASE REDBROWN** 

### Section 5. Fire-fighting measures

**Hazardous thermal** decomposition products : Decomposition products may include the following materials:

carbon oxides nitrogen oxides

halogenated compounds metal oxide/oxides

**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. 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.

### 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. 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.

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.

### 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.

> **Thailand** Page: 5/15

### Section 7. Handling and storage

### **Precautions for safe** handling

: Fut 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. 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. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

### including any incompatibilities

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.

### Section 8. Exposure controls/personal protection

### **Control parameters**

#### Occupational exposure limits

| Ingredient name                                     | Exposure limits  |
|---|--|
| kylene  | Ministry of Labor (Thailand, 8/2017).<br>[xylene (o-, m-, p- isomers)] |
|   | TWA: 100 ppm 8 hours.  |
| Talc , not containing asbestiform fibres            | Ministry of Labor (Thailand, 8/2017).                                  |
| Trais, not containing account in inco               | TWA: 0.1 fibres/1 cc 8 hours. Form:                                    |
|   | Respirable dust  |
|   | TWA: 2 mg/m³ 8 hours. Form: Respirable                                 |
|   | dust   |
| 2-methylpropan-1-ol                                 | ACGIH TLV (United States, 1/2021).                                     |
|   | TWA: 152 mg/m³ 8 hours.  |
|   | TWA: 50 ppm 8 hours.   |
| ethylbenzene  | Ministry of Labor (Thailand, 8/2017).                                  |
|   | TWA: 100 ppm 8 hours.  |
| crystalline silica, respirable powder (<10 microns) | Ministry of Labor (Thailand, 8/2017).                                  |
|   | [crystalline silica]   |
|   | TWA: 0.025 mg/m³ 8 hours. Form:  |
|   | Respirable dust  |
| 12-hydroxyoctadecanoic acid, reaction products with | ACGIH TLV (United States).   |
| 1,3-benzenedimethanamine and hexamethylenediamine   | TWA: 10 mg/m³ Form: Inhalable particle                                 |
|   | TWA: 3 mg/m³, (inhalable dust) Form:<br>Respirable particle            |
|   | Lizeshiranie harriole  |

**Thailand** Page: 6/15

### Section 8. Exposure controls/personal protection

# procedures

**Recommended monitoring**: 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. 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.

**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 Body protection**

butyl rubber

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. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

### 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.

> **Thailand** Page: 7/15

Date of issue 8 November 2022 Version 4

Product code 00313945

**Product name SIGMACOVER 350 BASE REDBROWN** 

### Section 9. Physical and chemical properties

**Appearance** 

Physical state : Liquid.

Color : Brownish-red.
Odor : Aromatic. [Slight]
Odor threshold : Not available.
pH : insoluble in water.

Melting point : May start to solidify at the following temperature: 8 to 12°C (46.4 to 53.6°F) This is

based on data for the following ingredient: bis-[4-(2,3-epoxipropoxi)phenyl]propane.

Weighted average: -59.24°C (-74.6°F)

Boiling point : >37.78°C (>100°F)

Flash point : Closed cup: 30°C (86°F)

**Evaporation rate**: Highest known value: 0.84 (ethylbenzene) Weighted average: 0.59compared with

butyl acetate

Flammability (solid, gas) : liqu

Lower and upper explosive

(flammable) limits

: Greatest known range: Lower: 1.3% Upper: 13% (benzyl alcohol)

Vapor pressure : Fighest known value: <1.6 kPa (<12 mm Hg) (at 20°C) (2-methylpropan-1-ol).

Weighted average: 0.64 kPa (4.8 mm Hg) (at 20°C)

Vapor density: Highest known value: 11.7 (Air = 1) (bis-[4-(2,3-epoxipropoxi)phenyl]propane).

Weighted average: 5.3 (Air = 1)

Relative density : 1.47

Solubility(ies) : Media Result

Not soluble

Partition coefficient: n-

octanol/water

Not applicable.

**Auto-ignition temperature**: Lowest known value: 415°C (779°F) (2-methylpropan-1-ol).

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

Viscosity : Kinematic (room temperature): >400 mm²/s

Kinematic (40°C): >21 mm<sup>2</sup>/s

Viscosity : > 100 s (ISO 6mm)

### 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.

Thailand Page: 8/15

### Section 10. Stability and reactivity

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 halogenated compounds metal oxide/oxides

## Section 11. Toxicological information

### Information on toxicological effects

### **Acute toxicity**

| Product/ingredient name   | Result                          | Species | Dose                    | Exposure |
|---|---------------------------------|---------|-------------------------|----------|
| Epoxy Resin (700 <mw<=1100)< td=""><td>LD50 Dermal</td><td>Rat</td><td>&gt;2000 mg/kg</td><td>-</td></mw<=1100)<> | LD50 Dermal                     | Rat     | >2000 mg/kg             | -        |
|   | LD50 Oral                       | Rat     | >2000 mg/kg             | -        |
| xylene  | LD50 Dermal                     | Rabbit  | 1.7 g/kg                | -        |
|   | LD50 Oral                       | Rat     | 4.3 g/kg                | -        |
| bis-[4-(2,3-epoxipropoxi)phenyl] propane  | LD50 Dermal                     | Rabbit  | 23000 mg/kg             | -        |
|   | LD50 Oral                       | Rat     | 15000 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               | -        |
| 2-methylpropan-1-ol   | LC50 Inhalation Vapor           | Rat     | 24.6 mg/l               | 4 hours  |
|   | LD50 Dermal                     | Rabbit  | 2460 mg/kg              | -        |
|   | LD50 Oral                       | Rat     | 2830 mg/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                | -        |
| 12-hydroxyoctadecanoic acid, reaction products with   | LC50 Inhalation Dusts and mists | Rat     | 3.56 mg/l               | 4 hours  |
| 1,3-benzenedimethanamine and hexamethylenediamine   |                                 |         |                         |          |
|   | LD50 Dermal                     | Rat     | >2000 mg/kg             | -        |
|   | LD50 Oral                       | Rat     | >2000 mg/kg             | -        |

### **Conclusion/Summary**

: There are no data available on the mixture itself.

### **Irritation/Corrosion**

| Product/ingredient name                  | Result                             | Species | Score | Exposure       | Observation |
|--|------------------------------------|---------|-------|----------------|-------------|
| <b>x</b> ylene                           | Skin - Moderate irritant           | Rabbit  | -     | 24 hours 500   | -           |
| bis-[4-(2,3-epoxipropoxi) phenyl]propane | Eyes - Mild irritant               | Rabbit  | -     | mg<br>24 hours | -           |
| priority ip openic                       | Eyes - Redness of the conjunctivae | Rabbit  | 0.4   | 24 hours       | -           |
|  | Skin - Edema                       | Rabbit  | 0.5   | 4 hours        | -           |
|  | Skin - Erythema/Eschar             | Rabbit  | 0.8   | 4 hours        | -           |
|  | Skin - Mild irritant               | Rabbit  | -     | 4 hours        | -           |

### **Conclusion/Summary**

Thailand Page: 9/15

**Product name SIGMACOVER 350 BASE REDBROWN** 

### **Section 11. Toxicological information**

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** 

| 3  | Route of exposure | Species | Result      |
|--|-------------------|---------|-------------|
| bis-[4-(2,3-epoxipropoxi) phenyl]propane | skin              | Mouse   | Sensitizing |

**Conclusion/Summary** 

Skin : There are no data available on the mixture itself.Respiratory : There are no data available on the mixture itself.

**Mutagenicity** 

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

**Carcinogenicity** 

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

Reproductive toxicity

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

**Teratogenicity** 

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

### Specific target organ toxicity (single exposure)

| Name   | Category   | Route of exposure | Target organs  |
|--|--|-------------------|--|
| Talc , not containing asbestiform fibres 2-methylpropan-1-ol | Category 3<br>Category 3<br>Category 3<br>Category 3 |                   | Respiratory tract irritation<br>Respiratory tract irritation<br>Respiratory tract irritation<br>Narcotic effects |

### Specific target organ toxicity (repeated exposure)

| Name   | • •                                    | Route of exposure        | Target organs                |
|--|--|--------------------------|------------------------------|
| ethylbenzene crystalline silica, respirable powder (<10 microns) 12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine | Category 2<br>Category 1<br>Category 2 | inhalation<br>inhalation | hearing organs<br>-<br>lungs |

### **Aspiration hazard**

| Name                | Result                         |
|---------------------|--------------------------------|
| xylene              | ASPIRATION HAZARD - Category 1 |
| benzyl alcohol      | ASPIRATION HAZARD - Category 2 |
| 2-methylpropan-1-ol | ASPIRATION HAZARD - Category 2 |
| ethylbenzene        | ASPIRATION HAZARD - Category 1 |

Thailand Page: 10/15

**Product name SIGMACOVER 350 BASE REDBROWN** 

### Section 11. Toxicological information

Information on the likely routes of exposure

: Not available.

Potential acute health effects

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

Inhalation : Harmful if inhaled. May cause respiratory irritation.

Skin contact : May be harmful in contact with skin. Causes skin irritation. Defatting to the skin.

May cause an allergic skin reaction.

**Ingestion**: May be harmful if swallowed.

#### 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

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

pain or irritation

redness dryness cracking

blistering may occur

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

stomach pains

### Delayed and immediate effects and also 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

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 : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Reproductive toxicity : No known significant effects or critical hazards.

Thailand Page: 11/15

Date of issue 8 November 2022 Version 4

**Product name SIGMACOVER 350 BASE REDBROWN** 

### **Section 11. Toxicological information**

### **Numerical measures of toxicity**

### **Acute toxicity estimates**

Product code 00313945

| Route                        | ATE value     |
|------------------------------|---------------|
| <b>Ø</b> ral                 | 4960.32 mg/kg |
| Dermal                       | 2639.97 mg/kg |
| Inhalation (vapors)          | 29.64 mg/l    |
| Inhalation (dusts and mists) | 2.76 mg/l     |

#### Other information

Prolonged or repeated contact may dry skin and cause irritation. 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. Avoid contact with skin and clothing.

# Section 12. Ecological information

### **Toxicity**

| Product/ingredient name   | Result                          | Species  | Exposure |
|---|---------------------------------|--|----------|
| s-[4-(2,3-epoxipropoxi) phenyl]propane  | Acute LC50 1.8 mg/l Fresh water | Daphnia - daphnia magna                              | 48 hours |
|   | Chronic NOEC 0.3 mg/l           | Daphnia  | 21 days  |
| 2-methylpropan-1-ol   | Acute EC50 1100 mg/l            | Daphnia  | 48 hours |
| ethylbenzene  | Acute EC50 1.8 mg/l Fresh water | Daphnia  | 48 hours |
| -   | Chronic NOEC 1 mg/l Fresh water | Daphnia - Ceriodaphnia dubia                         | -        |
| 12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine | Acute EC50 >100 mg/l            | Algae - Pseudokirchneriella subcapitata (microalgae) | 72 hours |
| ,   | Acute EC50 >100 mg/l            | Daphnia - Daphnia magna<br>(Water flea)              | 48 hours |
|   | Acute LC50 >100 mg/l            | Fish - Oncorhynchus mykiss (rainbow trout)           | 96 hours |
|   | Chronic NOEC 100 mg/l           | Àlgae - Pseudokirchneriella subcapitata              | 72 hours |
|   | Chronic NOEC ≥50 mg/l           | Daphnia - Daphnia magna<br>(Water flea)              | 21 days  |

**Conclusion/Summary** 

: There are no data available on the mixture itself.

### Persistence/degradability

| Thailand Page |
|---------------|
|---------------|

#### **Product name SIGMACOVER 350 BASE REDBROWN**

### **Section 12. Ecological information**

| Product/ingredient name                               | Test   | Result  | Dose | Inoculum |
|---|--|---|------|----------|
| acid, reaction products with 1,3-benzenedimethanamine | -<br>OECD 301D<br>Ready<br>Biodegradability -<br>Closed Bottle<br>Test | 79 % - Readily - 10 days<br>9 % - Not readily - 29 days | -    | -        |

### **Conclusion/Summary**

: There are no data available on the mixture itself.

| Product/ingredient name                               | Aquatic half-life | Photolysis | Biodegradability       |
|---|-------------------|------------|------------------------|
| kylene<br>bis-[4-(2,3-epoxipropoxi)<br>phenyl]propane | -                 |            | Readily<br>Not readily |
| benzyl alcohol<br>ethylbenzene                        | -                 |            | Readily<br>Readily     |

### **Bioaccumulative potential**

| Product/ingredient name   | LogPow | BCF         | Potential |
|---|--------|-------------|-----------|
| xylene xylene   | 3.12   | 7.4 to 18.5 | low       |
| benzyl alcohol  | 0.87   | -           | low       |
| 2-methylpropan-1-ol   | 1      | -           | low       |
| ethylbenzene  | 3.6    | 79.43       | low       |
| 12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine | >6     | -           | high      |

### **Mobility in soil**

Soil/water partition coefficient (K<sub>oc</sub>)

: 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. 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.

Thailand Page: 13/15

Date of issue 8 November 2022 **Version 4** 

Product code 00313945

**Product name SIGMACOVER 350 BASE REDBROWN** 

### **Section 14. Transport information**

|                             | UN              | IMDG            | IATA            |
|-----------------------------|-----------------|-----------------|-----------------|
| UN number                   | UN1263          | UN1263          | UN1263          |
| UN proper shipping name     | PAINT           | PAINT           | PAINT           |
| Transport hazard class(es)  | 3               | 3               | 3               |
| Packing group               | III             | III             | III             |
| Environmental hazards       | No.             | No.             | No.             |
| Marine pollutant substances | Not applicable. | Not applicable. | Not applicable. |

#### **Additional information**

UN : This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to

2.3.2.5.1.

**IMDG** : This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to

2.3.2.5.

IATA : None identified.

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

### Section 15. Regulatory information

**Harmful Chemicals List** 

Safety, health and environmental regulations specific for the product

: Listed

: No known specific national and/or regional regulations applicable to this product (including its ingredients).

**International regulations** 

**Montreal Protocol** 

Not listed.

**Stockholm Convention on Persistent Organic Pollutants** 

Not listed.

**Thailand** Page: 14/15

**Product name SIGMACOVER 350 BASE REDBROWN** 

### **Section 16. Other information**

**History** 

Date of issue/Date of : 8 November 2022

revision

Date of previous issue : 12/23/2020

Version : 4
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 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.

Thailand Page: 15/15