SAFETY DATA SHEET

Date of issue/Date of revision 24 October 2023

Version4

Section 1. Identification

| Product code | : 00359342 |
|----------------------------------|---|
| Product name | : SIGMASHIELD 880 GF BASE RAL 1023 |
| Other means of identification | : Not available. |
| 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 | : PT PPG Coatings Indonesia JI. Rawagelam III No.1 13930 Jakarta Indonesia Tel +62 21 4605710 PMC.Safety@PPG.com |
| Emergency telephone number | : CHEMTREC 001-803-017-9114 (CCN 17704) |

Section 2. Hazards identification

| Classification of the substance or mixture | FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 GERM CELL MUTAGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 AQUATIC HAZARD (LONG-TERM) - Category 3 Fercentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 87.3% Fercentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 52.3% |
|---|---|
| | |

GHS label elements, including precautionary statements Hazard pictograms ÷



Signal word

: Warning

Product code 00359342

Product name SIGMASHIELD 880 GF BASE RAL 1023

Section 2. Hazards identification

| Hazard statements | Fammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. Suspected of causing genetic defects. Harmful to aquatic life with long lasting effects. |
|--------------------------|---|
| Precautionary statements | |
| Prevention | : Detain special instructions before use. Do not handle until all safety precautions have been read and understood. 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. Avoid breathing vapor. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. |
| Response | : F exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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. 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. If eye irritation persists: Get medical advice or attention. |
| 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. |
| | |

result in classification

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

Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

CAS number/other identifiers CAS number

| CAS number | : Not applicable. |
|-----------------|-------------------|
| EC number | : Mixture. |
| Ingredient name | |

| Ingredient name | % | CAS number |
|--|---------|------------|
| s-[4-(2,3-epoxipropoxi)phenyl]propane | 20- <25 | 1675-54-3 |
| Talc , not containing asbestiform fibres | 10- <20 | 14807-96-6 |
| Epoxy Resin (700 <mw<=1100)< td=""><td>3- <5</td><td>25036-25-3</td></mw<=1100)<> | 3- <5 | 25036-25-3 |
| Phenol, methylstyrenated | 3- <5 | 68512-30-1 |
| ethylbenzene | 3- <5 | 100-41-4 |
| xylene | 3- <5 | 1330-20-7 |
| 2-methylpropan-1-ol | 1- <3 | 78-83-1 |
| 2,3-epoxypropyl neodecanoate | 1- <3 | 26761-45-5 |
| Octadecanamide, N,N'-1,6-hexanediylbis[12-hydroxy- | 1- <3 | 55349-01-4 |

| Indonesia | [;] Page: 2/14 |
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Section 3. Composition/information on ingredients

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.

SUB codes represent substances without registered CAS Numbers.

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

Section 4. First aid measures

| Description of necess | ary first aid measures |
|-----------------------|--|
| Eye contact | Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice. |
| 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 effe | <u>cts</u> |
|-----------------------------|---|
| Eye contact | : Causes serious eye irritation. |
| Inhalation | : Harmful if inhaled. May cause respiratory irritation. |
| Skin contact | : Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction. |
| Ingestion | : No known significant effects or critical hazards. |
| Over-exposure signs/symp | <u>otoms</u> |
| Eye contact | : Adverse symptoms may include the following: pain or irritation watering redness |
| Inhalation | : Adverse symptoms may include the following: respiratory tract irritation coughing |
| Skin contact | : Adverse symptoms may include the following: irritation redness dryness cracking |
| Ingestion | : No specific data. |
| Indication of immediate me | dical 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. |

Section 4. First aid measures

See toxicological information (Section 11)

Section 5. Fire-fighting measures

| Extinguishing media | |
|--|---|
| Suitable extinguishing media | : Use dry chemical, CO ₂ , 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. |
| Hazardous thermal decomposition products | : Decomposition products may include the following materials: carbon oxides nitrogen oxides 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. Avoid breathing 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

Product name SIGMASHIELD 880 GF BASE RAL 1023

Section 6. Accidental release measures

| 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 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 | L | |
|--|---|---|
| Protective measures | : | Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. 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. |
| Advice on general occupational hygiene | : | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |
| Conditions for safe storage, including any incompatibilities | : | Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in 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 | |
|------------------------------|---|------------|
| ▼alc , not containing asbest | n fibres Minister of Labor of the Republic | of |
| - | Indonesia (Indonesia, 4/2018). | |
| | TWA: 2 mg/m ³ 8 hours. Form: resp | pirable |
| | particles | |
| ethylbenzene | Minister of Labor of the Republic | of |
| | Indonesia (Indonesia, 4/2018). | |
| | TWA: 20 BDS 8 hours. | |
| | Ministry of Employment and Labo | or |
| | (Indonesia, 2/1997). | |
| | STEL: 543 mg/m ³ 15 minutes. | |
| | STEL: 125 BDS 15 minutes. | |
| xylene | Minister of Labor of the Republic | of |
| | Indonesia (Indonesia, 4/2018). [Xy | /lene (o, |
| | m,p-isomers)] | |
| | TWA: 434 mg/m ³ 8 hours. | |
| | TWA: 100 BDS 8 hours. | |
| | STEL: 651 mg/m ³ 15 minutes. | |
| | STEL: 150 BDS 15 minutes. | |
| | Ministry of Employment and Labo |)r |
| | (Indonesia, 2/1997). | |
| | STEL: 651 mg/m ³ 15 minutes. STEL: 150 BDS 15 minutes. | |
| 2 mothydpropon 1 ol | | . f |
| 2-methylpropan-1-ol | Minister of Labor of the Republic Indonesia (Indonesia, 4/2018). Ab | |
| | through skin. | sorbeu |
| | - | |
| | TWA: 152 mg/m³ 8 hours. TWA: 50 BDS 8 hours. | |
| | | |
| Recommended monitoring | Reference should be made to appropriate monitoring standards. Reference | |
| rocedures | national guidance documents for methods for the determination of hazardo | ous |
| | substances will also be required. | |
| | | |
| ppropriate engineering | Use only with adequate ventilation. Use process enclosures, local exhaust | |
| ontrols | ventilation or other engineering controls to keep worker exposure to airborr | |
| | contaminants below any recommended or statutory limits. The engineering | - |
| | also need to keep gas, vapor or dust concentrations below any lower explo | sive |
| | limits. Use explosion-proof ventilation equipment. | |
| invironmental exposure | Emissions from ventilation or work process equipment should be checked | |
| ontrols | 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. | |
| | equipment will be necessary to reduce emissions to acceptable levels. | |
| | | |
| ndividual protection measu | | |
| Hygiene measures | Wash hands, forearms and face thoroughly after handling chemical produc | |
| | eating, smoking and using the lavatory and at the end of the working period | |
| | Appropriate techniques should be used to remove potentially contaminated | |
| | Contaminated work clothing should not be allowed out of the workplace. W | |
| | contaminated clothing before reusing. Ensure that eyewash stations and s showers are close to the workstation location | alety |

showers are close to the workstation location.

Section 8. Exposure controls/personal protection

| Eye/face protection | : Chemical splash goggles. |
|------------------------|---|
| Skin 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. 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. |

Section 9. Physical and chemical properties

| <u>Appearance</u> | | | |
|---|---|--------------------------|---|
| Physical state | 1 | Liquid. | |
| Color | 4 | Yellow. | |
| Odor | : | Characteristic. | |
| Odor threshold | : | Not available. | |
| рН | : | Not applicable. | |
| Melting point | : | Not available. | |
| Boiling point | : | >37.78°C (>100°F) | |
| Flash point | : | Closed cup: 29°C (84.2°F | =) |
| Evaporation rate | : | Not available. | |
| Flammability/Combustible properties (solid, gas) | 1 | Not available. | |
| Lower and upper explosive (flammable) limits | 1 | Greatest known range: L | ower: 1.7% Upper: 10.9% (2-methylpropan-1-ol) |
| Vapor pressure | : | Not available. | |
| Vapor density | : | Not available. | |
| Relative density | : | 1.25 | |
| Solubility(ies) | | Media | Result |
| oolubility(165) | 1 | cold water | Not soluble |
| | | | |

Version 4

Section 9. Physical and chemical properties

| Partition coefficient: n- octanol/water | : Not applicable. |
|--|-------------------------------|
| Auto-ignition temperature | : Not available. |
| Decomposition temperature | : Not available. |
| Viscosity | : Kinematic (40°C): >21 mm²/s |

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. |
| Hazardous decomposition products | ■ Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides metal oxide/oxides |

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|--|-----------------------|---------|-------------|----------|
| ofs-[4-(2,3-epoxipropoxi) phenyl]propane | LD50 Dermal | Rabbit | 23000 mg/kg | - |
| | LD50 Oral | Rat | 15000 mg/kg | - |
| Epoxy Resin (700 <mw <=1100)</mw | LD50 Dermal | Rat | >2000 mg/kg | - |
| , | LD50 Oral | Rat | >2000 mg/kg | - |
| Phenol, methylstyrenated | LD50 Dermal | Rabbit | >2000 mg/kg | - |
| | LD50 Oral | Rat | >2000 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 | - |
| xylene | LD50 Dermal | Rabbit | 1.7 g/kg | - |
| - | LD50 Oral | Rat | 4.3 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 | - |
| 2,3-epoxypropyl neodecanoate | LD50 Dermal | Rat | 3800 mg/kg | - |
| | LD50 Oral | Rat | 9.6 g/kg | - |

Conclusion/Summary Irritation/Corrosion

: There are no data available on the mixture itself.

Version 4

Section 11. Toxicological information

| Product/ingredient name | Result | | Species | Score | | Exposure | Observation |
|--|----------------------------------|--------------|---------------|--------------|-----------------|-----------------|---------------------------|
| ofs-[4-(2,3-epoxipropoxi) phenyl]propane | Eyes - Mild irritant | | Rabbit | - | | 24 hours | - |
| | Eyes - Redness o conjunctivae | of the | Rabbit | 0.4 | | 24 hours | - |
| | Skin - Edema | | Rabbit | 0.5 | | 4 hours | - |
| | Skin - Erythema/I | | Rabbit | 0.8 | | 4 hours | - |
| | Skin - Mild irritant | | Rabbit | - | | 4 hours | - |
| xylene | Skin - Moderate i | rritant | Rabbit | - | | 24 hours 500 mg |) - |
| Conclusion/Summary | | | | | | | |
| Skin | : There are no o | data availa | able on the m | ixture itse | lf. | | |
| Eyes | : There are no o | data availa | able on the m | ixture itse | lf. | | |
| Respiratory | : There are no o | data availa | able on the m | ixture itse | lf. | | |
| Sensitization | | | | | | | |
| Product/ingredient name | Route of exposure | Species | 3 | | Resu | ilt | |
| ቓís-[4-(2,3-epoxipropoxi) phenyl]propane | skin | Mouse | | | Sens | itizing | |
| Conclusion/Summary | | | | | | | |
| Skin | : There are no o | data availa | able on the m | ixture itse | lf. | | |
| Respiratory | : There are no o | data availa | able on the m | ixture itse | lf. | | |
| Mutagenicity | | | | | | | |
| Conclusion/Summary | : There are no o | data availa | able on the m | ixture itse | lf. | | |
| Carcinogenicity | | | | | | | |
| Conclusion/Summary | : There are no o | data availa | able on the m | ixture itee | lf | | |
| Reproductive toxicity | | | | | | | |
| | . Thors are the | | blo on the | ivture ite - | If | | |
| Conclusion/Summary : There are no data available on the mixture itself. | | | | | | | |
| Teratogenicity | | | | • • • | | | |
| Conclusion/Summary | : There are no o | | able on the m | ixture itse | lf. | | |
| Specific target organ toxici | <u>ity (single exposu</u> | <u>re)</u> | | | | | |
| Name | | | Category | | Route exposi | | arget organs |
| Palc , not containing asbesti | form fibres | | Category | 3 - | | | espiratory tract ritation |
| xylene | | | Category | 3 - | | | espiratory tract |
| 2-methylpropan-1-ol | | | Category | 3 - | | | espiratory tract |
| | | | | <u> </u> | | | ritation |
| | | | Category | 3 | | N | arcotic effects |
| Specific target organ toxici | ity (repeated expo | <u>sure)</u> | | | | | |
| Name | | | Category | F | Route | of T | arget organs |
| | | | 1 | 1 | | | |

| _ | | |
|-----|---------|--------|
| Asp | iration | hazard |

ethylbenzene

|--|

Category 2

exposure

-

hearing organs

Section 11. Toxicological information

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

| Information on the likely routes of exposure | : | Not available. |
|--|----------|---|
| Potential acute health effects | <u>s</u> | |
| Eye contact | : | Causes serious eye irritation. |
| Inhalation | : | Harmful if inhaled. May cause respiratory irritation. |
| Skin contact | : | Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction. |
| Ingestion | 1 | No known significant effects or critical hazards. |
| Symptoms related to the phy | /sic | cal, chemical and toxicological characteristics |
| Eye contact | : | Adverse symptoms may include the following: pain or irritation watering redness |
| Inhalation | : | Adverse symptoms may include the following: respiratory tract irritation coughing |
| Skin contact | : | Adverse symptoms may include the following: irritation redness dryness cracking |
| Ingestion | 1 | No specific data. |
| Delayed and immediate effect | :ts | and also chronic effects from short and long term exposure |
| 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. |
| <u>Long term exposure</u> | | |
| 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 eff | ect | <u>s</u> |
| General | : | 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 | : | Suspected of causing genetic defects. |
| Reproductive toxicity | : | No known significant effects or critical hazards. |

Numerical measures of toxicity

Acute toxicity estimates

Section 11. Toxicological information

| Route | ATE value |
|---------------------|---|
| Inhalation (vapors) | 21569.39 mg/kg 24.86 mg/l 2.71 mg/l |

Other information

Folonged 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 |
|---|---------------------------------|--------------------------------|----------|
| øis-[4-(2,3-epoxipropoxi) phenyl]propane | Acute LC50 1.8 mg/l Fresh water | Daphnia - <i>daphnia magna</i> | 48 hours |
| | Chronic NOEC 0.3 mg/l | Daphnia | 21 days |
| ethylbenzene | Acute EC50 1.8 mg/l Fresh water | Daphnia | 48 hours |
| | Chronic NOEC 1 mg/l Fresh water | Daphnia - Ceriodaphnia dubia | - |
| 2-methylpropan-1-ol | Acute EC50 1100 mg/l | Daphnia | 48 hours |
| 2,3-epoxypropyl neodecanoate | Acute EC50 3.5 mg/l | Algae | 96 hours |
| | Acute EC50 4.8 mg/l | Daphnia - <i>Daphnia magna</i> | 48 hours |
| | Acute LC50 9.6 mg/l | Fish - Oncorhynchus mykiss | 96 hours |

Persistence/degradability

Not available.

| Product/ingredient name | Test | Result | | Dose | Inoculum |
|--|------------------|-------------|----------------|------|--|
| ethylbenzene | - | 79 % - Read | dily - 10 days | - | - |
| Product/ingredient name | Aquatic ha | lf-life | Photoly | ysis | Biodegradability |
| bis-[4-(2,3-epoxipropoxi) phenyl]propane ethylbenzene xylene 2,3-epoxypropyl neodecanoate | - - - - | - - - | | | Not readily Readily Readily Not readily |

Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|--|----------------------------------|-------------------------------------|----------------------------------|
| Phenol, methylstyrenated ethylbenzene xylene 2-methylpropan-1-ol 2,3-epoxypropyl neodecanoate | 3.627 3.6 3.12 1 4.4 | - 79.43 7.4 to 18.5 - - | Low Low Low Low High |

| Indonesia | Page: 11/14 |
|-----------|-------------|
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Section 12. Ecological information

Mobility in soil

Soil/water partition coefficient (Koc)

: 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. |
|------------------|---|
| | |

Section 14. Transport information

| | UN | IMDG | ΙΑΤΑ |
|--------------------------------|-----------------|-----------------|-----------------|
| 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 : None identified.
- IMDG : None identified.
- 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.

Date of issue 24 October 2023

Version 4

Section 14. Transport information

Transport in bulk according : Not applicable. to IMO instruments

Section 15. Regulatory information

Safety, health and environmental regulations specific for the product

Classification

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



Law No. 74/2001 - Banned

None of the components are listed.

Law No. 74/2001 - Restricted

| In | gredient name | Status |
|----|---------------|--------|
| E | Íhylene Oxide | Listed |

Law No. 74/2001 -: Not determined Chemicals that may be used

International regulations

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Section 16. Other information

| <u>History</u> | |
|--------------------------------|---|
| Date of issue/Date of revision | : 24 October 2023 |
| Date of previous issue | : 2/24/2020 |
| 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 |

Section 16. Other information

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.