SAFETY DATA SHEET



Date of issue/Date of revision 24 October 2024 Version 4.01

| Section 1. Identification | | |
|--|---|--|
| Product code | : 00464191 | |
| Product name | : PITT-CHAR NX BASE WHITE (MJ) | |
| Product type | : Liquid. | |
| Relevant identified uses o | f the substance or mixture and uses advised against | |
| Product use | Coating. Professional applications, Used by spraying. | |
| Supplier's details | : PPG Industries (Singapore) Pte. Ltd., No. 1 Tuas Basin Close, Singapore 638803. Tel +65 68653737 | |
| Emergency telephone number (with hours of operation) | : CHEMTREC +(65)-31581349 (CCN 17704) | |

Section 2. Hazards identification

| Classification of the substance or mixture | : SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 |
|--|---|
| | CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION - Category 2 |
| | AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2 |

| <u>GHS label elements, includir</u> Hazard pictograms | : : : |
|--|---|
| Signal word Hazard statements | Warning Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. Very toxic to aquatic life. Toxic to aquatic life with long lasting effects. |
| Precautionary statements | |

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Section 2. Hazards identification

| Prevention | : Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Avoid release to the environment. Avoid breathing vapor. Wash thoroughly after handling. |
|------------|---|
| Response | : Collect spillage. IF exposed or concerned: Get medical advice or attention. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. Take off contaminated clothing and wash it before reuse. 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 | : Not applicable. |
| Disposal | : Not applicable. |

Other hazards which do not : None known. result in classification

Section 3. Composition/information on ingredients

Mixture

| Substance/mixture | |
|-------------------|--|
| Substance/mixture | |

CAS number/other identifiers

| CAS number EC number | Not applicable.Mixture. | | |
|--|--|----------|------------|
| Ingredient name | | % | CAS number |
| A state of the sta | | 20 - <25 | 12767-90-7 |
| Borate(5-), bis[µ-oxotetraoxodiborato(4-)]-, ammonium tetrahydrogen, dihydrate, (T-4)- | | 20 - <25 | 12046-04-7 |
| bis-[4-(2,3-epoxipropoxi)phenyl]propane | | 10 - <20 | 1675-54-3 |
| tris(2-chloro-1-methylethyl) phosphate | | 5 - <10 | 13674-84-5 |
| triphenyl phosphate | | 5 - <10 | 115-86-6 |
| Epoxy resin (MW ≤ 700) | | 1 - <3 | 25068-38-6 |
| Cashew, nutshell liq. | | 1 - <3 | 8007-24-7 |
| 2,2-bis(acryloyloxymethyl)butyl acrylate | | 1 - <3 | 15625-89-5 |

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 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. |
| | In case of accidental eye contact, avoid direct exposure to the sun or other sources of UV light as severe irritation including burns may result. These reactions can be delayed – get medical attention if pain, irritation or blistering occurs after contact. |

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Section 4. First aid measures

| 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. |
| | In case of accidental skin contact, avoid direct exposure to the sun or other sources of UV light as severe irritation including burns may result. These reactions can be delayed – get medical attention if pain, irritation, rash or blistering occurs after contact. |
| 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 sympton | ns/effects, acute and delayed |
| Potential acute health e | effects |
| Eye contact | : Causes serious eye irritation. |
| Inhalation | : No known significant effects or critical hazards. |
| Skin contact | : Causes skin irritation. May cause an allergic skin reaction. |
| Ingestion | : No known significant effects or critical hazards. |
| Over-exposure signs/sy | <u>/mptoms</u> |
| Eye contact | : Adverse symptoms may include the following: pain or irritation watering redness |
| Inhalation | : Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations |
| Skin contact | : Adverse symptoms may include the following: irritation redness reduced fetal weight increase in fetal deaths skeletal malformations |
| Ingestion | : Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations |

| Notes to physician | : Freat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
|----------------------------|--|
| Specific treatments | : No specific treatment. |
| Protection of first-aiders | : No action shall be taken involving any personal risk or without suitable training. 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. |

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| | | |

Section 4. First aid measures

See toxicological information (Section 11)

Section 5. Fire-fighting measures

| Extinguishing media | |
|--|---|
| Suitable extinguishing media | : Use an extinguishing agent suitable for the surrounding fire. |
| Unsuitable extinguishing media | : None known. |
| Specific hazards arising from the chemical | : In a fire or if heated, a pressure increase will occur and the container may burst. This material is very toxic to aquatic life. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. |
| Hazardous thermal decomposition products | : Decomposition products may include the following materials: carbon oxides phosphorus 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. |
| 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, protec | tiv | e 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. 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. Collect spillage. |
| Methods and materials for co | nt | ainment and cleaning up |
| Small spill | : | Stop leak if without risk. Move containers from spill area. Dilute with water and mop |

up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

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Section 6. Accidental release measures

Large spill

: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling 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. 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 ingest. Avoid breathing vapor or mist. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Advice on general : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before occupational hygiene 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,** : Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in original container protected from direct including any sunlight in a dry, cool and well-ventilated area, away from incompatible materials incompatibilities (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Section 8. Exposure controls/personal protection

| Ingredient name | | | Exposure limits | | | | |
|--|------------|---|--|--|--|--|--|
| Fexaboron dizinc undecaoxid Borate(5-), bis[µ-oxotetraoxo dihydrate, (T-4)- triphenyl phosphate | | orato(4-)]-, ammonium tetrahydrogen, | ACGIH TLV (United States, 1/2013) TWA: 3 mg/m ³ (Dusts and mists). Form: Respirable fraction. TWA: 10 mg/m ³ (Dusts and mists). Form: Inhalable fraction. ACGIH TLV (United States) TWA: 10 mg/m ³ . Form: inhalable dust. TWA: 3 mg/m ³ . Form: Respirable dust. Workplace Safety and Health Act (Singapore, 2/2006) PEL (long term) 8 hours: 3 mg/m ³ . | | | | |
| Recommended monitoring procedures | : | | riate monitoring standards. Reference to nods for the determination of hazardous | | | | |
| Appropriate engineering controls | : | | es, gas, vapor or mist, use process enclosures, neering controls to keep worker exposure to ommended or statutory limits. | | | | |
| Environmental exposure controls | : | they comply with the requirements of e | process equipment should be checked to ensure of environmental protection legislation. In some ngineering modifications to the process uce emissions to acceptable levels. | | | | |
| Individual protection measu | <u>res</u> | | | | | | |
| Hygiene measures | : | eating, smoking and using the lavatory Appropriate techniques should be use Contaminated work clothing should no | bughly after handling chemical products, before y and at the end of the working period. In the end of the working period. In the allowed out of the workplace. Wash Ensure that eyewash stations and safety ocation. | | | | |
| Eye/face protection | : | Chemical splash goggles. | | | | | |
| Skin protection | | . | | | | | |
| Hand protection | : | be worn at all times when handling ch this is necessary. Considering the par check during use that the gloves are s should be noted that the time to break | s complying with an approved standard should emical products if a risk assessment indicates rameters specified by the glove manufacturer, still retaining their protective properties. It through for any glove material may be rers. In the case of mixtures, consisting of the of the gloves cannot be accurately | | | | |
| Gloves | : | polyethylene butyl rubber | | | | | |
| Body protection | : | | body should be selected based on the task d and should be approved by a specialist | | | | |

Section 8. Exposure controls/personal protection

| 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 | Liquid. | |
| Color | Off-white. | |
| Odor | Characteristic. | |
| рН | Not applicable. | |
| Boiling point | >37.78°C (>100°F) | |
| Flash point | Closed cup: Not applicable. | |
| Evaporation rate | Not available. | |
| Flammability (solid, gas) | liquid | |
| Vapor pressure | Not available. | |
| Vapor density | | |
| Relative density | 1.56 | |
| Solubility(ies) | Media Result | |
| Colubility(ICS) | cold water Not soluble | |
| Auto-ignition temperature | Not available. | |
| Viscosity | Øynamic (room temperature): Not available. Kinematic (room temperature): Not available. Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt) | |

Section 10. Stability and reactivity

| | 5 |
|------------------------------------|--|
| 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. |
| | Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids. |
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Product code 00464191

Product name PITT-CHAR NX BASE WHITE (MJ)

Section 10. Stability and reactivity

Incompatible materials

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

Section 11. Toxicological information

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Information on toxicological effects

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|--|---------------------------------|---------|-------------|----------|
| nexaboron dizinc undecaoxide | LC50 Inhalation Dusts and mists | Rat | >5 mg/l | 4 hours |
| | LD50 Dermal | Rabbit | >5000 mg/kg | - |
| | LD50 Oral | Rat | >5000 mg/kg | - |
| Borate(5-), bis[µ- oxotetraoxodiborato(4-)]-, ammonium tetrahydrogen, dihydrate, (T-4)- | LD50 Dermal | Rabbit | >2000 mg/kg | - |
| | LD50 Oral | Rat | 4200 mg/kg | - |
| bis-[4-(2,3-epoxipropoxi) phenyl]propane | LD50 Dermal | Rabbit | 23000 mg/kg | - |
| | LD50 Oral | Rat | 15000 mg/kg | - |
| tris(2-chloro-1-methylethyl) phosphate | LC50 Inhalation Dusts and mists | Rat | >7 mg/l | 4 hours |
| | LD50 Dermal | Rabbit | >5 g/kg | - |
| | LD50 Oral | Rat | 1500 mg/kg | - |
| triphenyl phosphate | LD50 Dermal | Rabbit | >7900 mg/kg | - |
| | LD50 Oral | Rat | 3500 mg/kg | - |
| Epoxy resin (MW ≤ 700) | LD50 Dermal | Rabbit | >2 g/kg | - |
| · · · · | LD50 Oral | Rat | >2 g/kg | - |
| 2,2-bis(acryloyloxymethyl) butyl acrylate | LD50 Dermal | Rabbit | 5170 mg/kg | - |
| | LD50 Oral | Rat | 5.19 g/kg | - |

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

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|---|---------------------------------------|---------|-------|--------------------|-------------|
| exaboron dizinc undecaoxide | Eyes - Cornea opacity | Rabbit | 33 | 24 hours 0.083g | 74 hours |
| bis-[4-(2,3-epoxipropoxi) phenyl]propane | Eyes - Mild irritant | Rabbit | - | 24 hours | - |
| | 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 | - |
| Epoxy resin (MW ≤ 700) | Eyes - Mild irritant | Rabbit | - | - | - |
| | Skin - Mild irritant | Rabbit | - | - | - |
| 2,2-bis(acryloyloxymethyl) | Skin - Irritant | Rabbit | - | - | - |
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Section 11. Toxicological information

| butyl acrylate | | | | | | | | |
|--|-----------------------|--------------------------|--|---------|------|-------------------------------|-------------------|-----------------------------------|
| Conclusion/Summary | | | | 1 | | <u> </u> | | |
| Skin : Eyes : | There are no d | lata available | e on the mixture e on the mixture e on the mixture | itself. | | | | |
| Product/ingredient name | Route of exposure | Specie | S | | Resu | lt | | |
| is-[4-(2,3-epoxipropoxi) phenyl]propane Epoxy resin (MW ≤ 700) 2,2-bis(acryloyloxymethyl) butyl acrylate | skin skin skin | Mouse Mouse Rabbit | | | Sens | itizing itizing itizing | | |
| Conclusion/Summary Skin : | | | e on the mixture e on the mixture | | | | | |
| <u>Carcinogenicity</u> | | | e on the mixture e on the mixture | | | | | |
| Product/ingredient name | Maternal toxicity | Fertility | Development toxin | Specie | S | | Dose | Exposure |
| hexaboron dizinc undecaoxide | - | Positive | Positive | Rat | | | Oral: 37 mg/kg | 75 90 days; 7 days per week |
| 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) Not available. | | | | | | | | |
| Specific target organ toxicity Not available. Aspiration hazard Not available. | <u>y (repeated ex</u> | <u>posure)</u> | | | | | | |
| Information on the likely routes of exposure Potential acute health effects | outes of exposure | | | | | | | |
| Eye contact | : Causes ser | ious eye irrit | ation. | | | | | |
| Singapore English (US) | | | | | | | | Page: 9/14 |

Section 11. Toxicological information

| Inhalation | : No known significant effects or critical hazards. |
|--------------|--|
| Skin contact | : Causes skin irritation. May cause an allergic skin reaction. |
| Ingestion | : No known significant effects or critical hazards. |

Symptoms related to the physical, chemical and toxicological characteristics

| Eye contact | : Adverse symptoms may include the following: pain or irritation watering redness |
|--------------|--|
| Inhalation | : Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations |
| Skin contact | : Adverse symptoms may include the following: irritation redness reduced fetal weight increase in fetal deaths skeletal malformations |
| Ingestion | : Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations |

| Delayed and immediate effe | cts | and also chronic effects from short and long term exposure |
|--------------------------------|-----|---|
| Short term exposure | | |
| Potential immediate effects | : | Not available. |
| Potential delayed effects | 1 | Not available. |
| Long term exposure | | |
| Potential immediate effects | : | Not available. |
| Potential delayed effects | 1 | Not available. |
| Potential chronic health effe | ect | <u>s</u> |
| General | 1 | Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. |
| Carcinogenicity | : | Suspected of causing cancer. Risk of cancer depends on duration and level of exposure. |
| Mutagenicity | : | No known significant effects or critical hazards. |
| Reproductive toxicity | : | Suspected of damaging fertility or the unborn child. |

Numerical measures of toxicity Acute toxicity estimates

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Section 11. Toxicological information

| Route | ATE value |
|-------|----------------------------------|
| | 10586.33 mg/kg 60336.36 mg/kg |

Other information

Sanding and grinding dusts may be harmful if inhaled. Acrylate components of the mixture have irritating properties. Prolonged or repeated contact with skin or mucous membrane may result in irritation symptoms, such as redness, blistering, dermatitis etc. May cause allergic skin reactions with repeated exposure. The inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract. Ingestion may cause nausea, weakness and central nervous system effects. In case of accidental skin contact, avoid direct exposure to the sun or other sources of UV light as severe irritation including burns may result. These reactions can be delayed - get medical attention if pain, irritation, rash or blistering occurs after contact.

Section 12. Ecological information

Toxicity

| Result | Species | Exposure |
|----------------------------------|---|--|
| Acute EC50 76 mg/l | Daphnia - <i>Daphnia magna</i> | 48 hours |
| Acute LC50 2.17 mg/l | Fish - Salmo gairdneri | 96 hours |
| Acute LC50 >100 mg/l | Fish | 96 hours |
| Acute LC50 1.8 mg/l Fresh water | Daphnia - <i>daphnia magna</i> | 48 hours |
| Chronic NOEC 0.3 mg/l | Daphnia | 21 days |
| Acute LC50 0.09 mg/l Fresh water | Daphnia - <i>Daphnia magna</i> - Neonate | 48 hours |
| Chronic NOEC 0.1 mg/l | Algae - Desmodesmus subspicatus | 3 days |
| Acute LC50 1.8 mg/l | Daphnia | 48 hours |
| Chronic NOEC 0.3 mg/l | Daphnia | 21 days |
| Acute LC50 0.87 mg/l | Fish | 96 hours |
| | Acute EC50 76 mg/l Acute LC50 2.17 mg/l Acute LC50 >100 mg/l Acute LC50 1.8 mg/l Fresh water Chronic NOEC 0.3 mg/l Acute LC50 0.09 mg/l Fresh water Chronic NOEC 0.1 mg/l Acute LC50 1.8 mg/l Chronic NOEC 0.3 mg/l | Acute EC50 76 mg/lDaphnia - Daphnia magnaAcute LC50 2.17 mg/lFish - Salmo gairdneriAcute LC50 >100 mg/lFish - Salmo gairdneriAcute LC50 1.8 mg/l Fresh waterDaphnia - daphnia magnaChronic NOEC 0.3 mg/lDaphniaAcute LC50 0.09 mg/l Fresh waterDaphniaChronic NOEC 0.1 mg/lAlgae - DesmodesmusAcute LC50 1.8 mg/lDaphniaChronic NOEC 0.1 mg/lAlgae - DesmodesmusAcute LC50 1.8 mg/lDaphniaChronic NOEC 0.3 mg/lDaphnia |

Persistence/degradability

| Product/ingredient name | Test | Result | | Dose | Inoculum |
|---|------------------|---------------|-----------|------|------------------|
| Epoxy resin (MW ≤ 700) | OECD 301F | 5 % - 28 days | | - | - |
| Conclusion/Summary | : Not available | e. | | | |
| Product/ingredient name | Aquatic half-lit | fe | Photolysi | s | Biodegradability |
| øis-[4-(2,3-epoxipropoxi) phenyl]propane | - | | - | | Not readily |
| Epoxy resin (MW \leq 700) | - | | - | | Not readily |

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Section 12. Ecological information

Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|--|--------|--------|-----------|
| hexaboron dizinc undecaoxide | - | 60960 | High |
| tris(2-chloro-1-methylethyl) phosphate | 2.68 | 7.94 | Low |
| triphenyl phosphate | 4.63 | 190.55 | Low |
| Epoxy resin (MW \leq 700) | 3 | 31 | Low |
| Cashew, nutshell liq. | >4.78 | - | High |
| 2,2-bis(acryloyloxymethyl) butyl acrylate | 0.67 | - | Low |

Mobility in soil

| Soil/water partition | : Not available. |
|----------------------|------------------|
| coefficient (Koc) | |

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

Section 13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

| | UN | IMDG | ΙΑΤΑ |
|----------------------------|--|--|--|
| UN number | UN3082 | UN3082 | UN3082 |
| UN proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |
| | (hexaboron dizinc undecaoxide, bis-[4- (2,3-epoxipropoxi)phenyl] propane) | (hexaboron dizinc undecaoxide, bis-[4- (2,3-epoxipropoxi)phenyl] propane) | (hexaboron dizinc undecaoxide, bis-[4- (2,3-epoxipropoxi)phenyl] propane) |
| Transport hazard class(es) | 9 | 9 | 9 |

| Singapore | English (US) | |
|-----------|--------------|--|
|-----------|--------------|--|

Section 14. Transport information

| Packing group | III | III | III |
|-----------------------------|-----------------|-----------------------------------|-----------------|
| Environmental hazards | Yes. | Yes. | Yes. |
| Marine pollutant substances | Not applicable. | (hexaboron dizinc undecaoxide) | Not applicable. |

| Additional in | nformation |
|---------------|--|
| UN | : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. |
| IMDG | : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. |
| ΙΑΤΑ | : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8. |
| Special prec | cautions 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. |
| Trenewartin | bulk eccording Net emplicable |

Transport in bulk according : Not applicable. to IMO instruments

Section 15. Regulatory information

Singapore - hazardous chemicals under government control

None.

International regulations

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Section 16. Other information

History

| Date of issue/Date of revision | : 24 October 2024 |
|--------------------------------|-------------------|
| Date of previous issue | : 12/26/2023 |
| Version | : 4.01 |
| Prepared by | : EHS |

| Singapore | English (US) |
|-----------|--------------|
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Section 16. Other information

| Key to abbreviations | : ATE = Acute Toxicity Estimate |
|----------------------|---|
| | BCF = Bioconcentration Factor |
| | GHS = Globally Harmonized System of Classification and Labelling of Chemicals |
| | IATA = International Air Transport Association |
| | IBC = Intermediate Bulk Container |
| | 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) |
| | 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.