SAFETY DATA SHEET

Date of issue/Date of revision 4 March 2024

Version1

G

Section 1. Identification

| Product code | : 000001176643 |
|--|--|
| Product name | : PITT-CHAR NX BASE WHITE |
| CAS number | : Not applicable. |
| EC number | : Mixture. |
| Other means of identificatio 00424801; 00471806 | n |
| Product type | : Liquid. |
| Relevant identified uses of t | he 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 Yung Chi Coatings Co. Ltd Lot 219, Amata Street, Long Binh IZ Bien Hoa City, Dong Nai Province Vietnam Tel : +84 61 3936121/22 |
| Emergency telephone number (with hours of operation) | : CHEMTREC +(84)-444581938 (CCN 17704) |

Section 2. Hazards identification

| Classification of the substance or mixture | ACUTE TOXICITY (oral) - Category 5 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION - Category 2 AQUATIC TOXICITY (ACUTE) - Category 1 AQUATIC TOXICITY (CHRONIC) - Category 2 Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 2.6% Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 2.6% |
|---|---|
| GHS label elements Hazard pictograms | |
| Signal word | : Warning |

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Section 2. Hazards identification

| Hazard statements | : | May be harmful if swallowed. 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 | | |
| Prevention | : | Obtain 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. Avoid release to the environment. Avoid breathing vapor. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. |
| Response | : | Collect spillage. IF exposed or concerned: Get medical advice or attention. IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention. |
| Storage | : | Store locked up. |
| Disposal | : | Dispose of contents and container in accordance with all local, regional, national and international regulations. |
| Routes of entry | : | Not available. |
| Other hazards which do not result in classification | : | None known. |

Section 3. Composition/information on ingredients

: Mixture

CAS number/other identifiers

| CAS number: Not applicable.EC number: Mixture. | | |
|---|--------------------------|------------------------------|
| Ingredient name | CAS number | Chemical formula |
| hexaboron dizinc undecaoxide Borate(5-), bis[µ-oxotetraoxodiborato(4-)]-, ammonium tetrahydrogen, dihydrate, (T-4)- | 12767-90-7 12046-04-7 | B6O11Zn2 (NH4)B5O8.4H2O |
| bis-[4-(2,3-epoxipropoxi)phenyl]propane | 1675-54-3 | C21-H24-O4 |
| phosphorous oxychloride, reaction products with propylene oxide | 1244733-77-4 | C9H18Cl3O4P |
| Polyphosphoric acids, ammonium salts triphenyl phosphate | 68333-79-9 115-86-6 | [N3H12O6P2]n C18-H15-O4-P |

triphenyl phosphate115-86-6C18-H15-O4-P ≤ 10 Epoxy resin (MW ≤ 700)25068-38-6(C15-H16-O2.
C3-H5-CI-O)x ≤ 2.8 Cashew, nutshell liq.
2,2-bis(acryloyloxymethyl)butyl acrylate8007-24-7C21H36O2 ≤ 1.9 There are no ingredients present which within the current knowledge of the supplier and in the

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.

%

≥10 - ≤25

≥10 - ≤25

≥10 - ≤25

≤10

≤10

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Section 3. Composition/information on ingredients

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

Section 4. First aid measures

Description of necessary 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. |
| 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 | |
|-----------------------------|---|
| 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 | : May be harmful if swallowed. |
| Over-exposure signs/sym | <u>toms</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 |
| Indication of immediate me | ical 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. 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 nitrogen 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, protect | 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

: 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 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 original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. |

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

| Ingredient name | Exposure limits |
|--|---|
| hexaboron dizinc undecaoxide | ACGIH TLV (United States, 1/2013). |
| | TWA: 10 mg/m ³ , (Dusts and mists) Form: |
| | Inhalable fraction |
| | TWA: 3 mg/m ³ , (Dusts and mists) Form: |
| | Respirable fraction |
| Borate(5-), bis[µ-oxotetraoxodiborato(4-)]-, ammonium tetrahydrogen, | ACGIH TLV (United States). |
| dihydrate, (T-4)- | TWA: 3 mg/m ³ Form: Respirable dust |
| | TWA: 10 mg/m ³ Form: inhalable dust |
| triphenyl phosphate | ACGIH TLV (United States, 1/2023). |
| | TWA: 3 mg/m ³ 8 hours. |
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Section 8. Exposure controls/personal protection

| Cashew, nutshell liq. | Ministry of Health (Viet Nam, 6/2019). [vegetable oil mist] TWA: 10 mg/m³ 8 hours. Form: Mist |
|-----------------------------------|---|
| Recommended monitoring procedures | : 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 | : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. |
| Environmental exposure controls | : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. |
| Individual protection measu | <u>es</u> |
| 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/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 | : polyethylene butyl rubber |
| Body protection | Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. |
| Other skin protection | : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. |
| Respiratory protection | : Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. |

Section 9. Physical and chemical properties

Appearance

| Physical state | 1 | Liquid. |
|--|---|-----------------------------|
| Color | : | White. |
| Odor | : | Characteristic. |
| Odor threshold | : | Not available. |
| рН | : | Not applicable. |
| Melting point | : | Not available. |
| Boiling point | : | >37.78°C (>100°F) |
| Flash point | : | Closed cup: Not applicable. |
| Evaporation rate | : | Not available. |
| Flammability (solid, gas) | : | Not available. |
| Lower and upper explosive (flammable) limits | ; | Not available. |
| Vapor pressure | : | Not available. |
| Vapor density | : | Not available. |
| Relative density | : | 1.56 |
| Solubility(ies) | | Media Result |
| Solubility(les) | 1 | cold water Not soluble |
| 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 phosphorus oxides halogenated compounds metal oxide/oxides |

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|--|---------------------------------|---------|-----------------------|----------|
| hexaboron 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 | - |
| phosphorous oxychloride, reaction products with propylene oxide | LC50 Inhalation Dusts and mists | Rat | >7 mg/l | 4 hours |
| | LD50 Dermal | Rabbit | >2000 mg/kg | - |
| | LD50 Oral | Rat | 630 to 2000 mg/ kg | - |
| Polyphosphoric acids, ammonium salts | LD50 Oral | Rat | 4.74 g/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 | | | |
|--|--|---------|-------|--------------------|-------------|--|--|--|
| hexaboron 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) butyl acrylate | Skin - Irritant | Rabbit | - | - | - | | | |
| Conclusion/Summary | | | | | | | | |
| Skin | : There are no data available on the mixture itself. | | | | | | | |

| Eyes |
|-------------|
| Respiratory |

There are no data available on the mixture itself.There are no data available on the mixture itself.

Respiratory Sensitization

Section 11. Toxicological information

| Product/ingredient name | Route of exposure | | Speci | es | | Result | | |
|---|--|--|-----------|-------------------------------|------------|---------------|--------------------|--------------------------------|
| bis-[4-(2,3-epoxipropoxi) phenyl]propane | skin | | Mouse | | | Sensitizing | | |
| Epoxy resin (MW ≤ 700) 2,2-bis(acryloyloxymethyl) butyl acrylate | skin skin | | | Mouse Sensitizing Sensitizing | | | | |
| Skin | | There are no data available on the mixture itself. | | | | | | |
| Respiratory | : There are | There are no data available on the mixture itself. | | | | | | |
| Mutagenicity | T 1 | | | | •• | IC. | | |
| Conclusion/Summary | : There are | e no da | ata ava | ilable on the mixt | ure itse | lt. | | |
| Carcinogenicity | - | | | | | r | | |
| Conclusion/Summary | : There are | e no da | ata ava | ilable on the mixt | ure itse | lt. | | |
| Reproductive toxicity | | | | | | | | - |
| Product/ingredient name | Maternal toxicity | Fert | ility | Development toxin | Specie | S | Dose | Exposure |
| hexaboron dizinc undecaoxide | Positive | Posit | live | Positive | Rat | | Oral: 375 mg/kg | 90 days; 7 days per week |
| Conclusion/Summary | : There are | e no da | ata ava | ilable on the mixt | ure itse | lf. | | |
| Conclusion/Summary Specific target organ toxicit Not available. Specific target organ toxicit Not available. Aspiration hazard Not available. | t <u>y (single ex</u> | posur | <u>e)</u> | ilable on the mixt | ure itse | lf. | | |
| Information on the likely routes of exposure | : Not avail | able. | | | | | | |
| Potential acute health effects | 5 | | | | | | | |
| Eye contact | : Causes s | serious | s eye irr | itation. | | | | |
| Inhalation | : No know | n signi | ficant e | ffects or critical l | nazards. | | | |
| Skin contact | : Causes s | skin irri | itation. | May cause an a | llergic sl | kin reaction. | | |
| Ingestion | : May be h | armfu | l if swal | lowed. | | | | |
| Symptoms related to the phy | <u>/sical, chemi</u> | cal an | d toxic | ological charac | teristic | <u>s</u> | | |
| Eye contact | : Adverse pain or in watering redness | | | ay include the fol | owing: | | | |

Section 11. Toxicological information

| | | 5 |
|-----------------------------|----|--|
| 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 effec | ts | and also chronic effects from short and long term exposure |
| <u>Short term exposure</u> | | |
| Potential immediate | : | There are no data available on the mixture itself. |

| Potential immediate effects | ÷ | I here are no data available on the mixture itself. |
|--------------------------------|------|---|
| Potential delayed effects | 1 | There are no data available on the mixture itself. |
| Long term exposure | | |
| Potential immediate effects | : | There are no data available on the mixture itself. |
| Potential delayed effects | 1 | There are no data available on the mixture itself. |
| Potential chronic health eff | ects | |
| General | : | 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

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Acute toxicity estimates

| Route | ATE value |
|--------|---------------|
| Oral | 3162.4 mg/kg |
| Dermal | 6142.91 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

| Product/ingredient name | Result | Species | Exposure |
|--|-----------------------------------|---|----------|
| hexaboron dizinc undecaoxide | Acute EC50 76 mg/l | Daphnia - Daphnia magna | 48 hours |
| | Acute LC50 2.17 mg/l | Fish - Salmo gairdneri | 96 hours |
| Borate(5-), bis[µ- oxotetraoxodiborato(4-)]-, ammonium tetrahydrogen, dihydrate, (T-4)- | Acute LC50 >100 mg/l | Fish | 96 hours |
| bis-[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 |
| phosphorous oxychloride, reaction products with propylene oxide | EC50 82 mg/l | Algae | 72 hours |
| | EC50 131 mg/l | Daphnia | 48 hours |
| | LC50 51 mg/l | Fish | 96 hours |
| | NOEC 32 mg/l | Daphnia | 48 hours |
| Polyphosphoric acids, ammonium salts | Acute EC50 730.5 mg/l Fresh water | Daphnia - <i>Daphnia magna</i> - Neonate | 48 hours |
| triphenyl phosphate | 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 |
| Epoxy resin (MW ≤ 700) | Acute LC50 1.8 mg/l | Daphnia | 48 hours |
| | Chronic NOEC 0.3 mg/l | Daphnia | 21 days |
| 2,2-bis(acryloyloxymethyl) butyl acrylate | Acute LC50 0.87 mg/l | Fish | 96 hours |

Persistence and degradability

| Product/ingredient name | Test | Result | | Dose | | Inoculum |
|---|-------------------|-------------|------------|------|----------------------------|----------|
| Epoxy resin (MW ≤ 700) | OECD 301F | 5 % - 28 da | ays | - | | - |
| Product/ingredient name | Aquatic half-life | | Photolysis | | Biodegradability | |
| bis-[4-(2,3-epoxipropoxi) phenyl]propane Epoxy resin (MW ≤ 700) | - | | - | | Not readily Not readily | |

Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|---|--------|-----------|-----------|
| hexaboron dizinc undecaoxide | - | 60960 | High |
| phosphorous oxychloride, reaction products with propylene oxide | 2.68 | 0.8 to 14 | Low |
| triphenyl phosphate | 4.63 | 190.55 | Low |
| Epoxy resin (MW ≤ 700) | 3 | 31 | Low |
| Cashew, nutshell liq. | >4.78 | - | High |
| 2,2-bis(acryloyloxymethyl) butyl acrylate | 0.67 | - | Low |

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

Additional information

| 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. |
| IATA | : 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. |

Product name PITT-CHAR NX BASE WHITE

Section 14. Transport information

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

Safety, health and environmental regulations specific for the product

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

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| Ingredient name | Category | Notes |
|---------------------------|------------|-------|
| 1-chloro-2,3-epoxypropane | Category 2 | |

Toxic classification (TCVN : 3

3164-79)

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 | : 4 March 2024 |
| Date of previous issue | : No previous validation |
| Version | : 1 |
| Prepared by | : EHS |
| 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 = International Air Transport Association IBC = 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 |
| References | : Not available. |

V Indicates information that has changed from previously issued version.

Notice to reader

Section 16. Other information

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.