SAFETY DATA SHEET

Safety Data Sheet according to GB/T 16483-2008 and GB/T 17519-2013



Date of issue/Date of revision 26 December 2023

Version 3.01

| Section 1. Chemical product and company identification | | |
|--|---|--|
| Product code | : 00444774 | |
| Product name | : PITT-CHAR NX BASE WHITE SF | |
| Product name | : PITT-CHAR NX BASE WHITE SF | |
| Product type | : Liquid. | |
| Relevant identified uses of | f the substance or mixture and uses advised against | |
| Product use | : Professional applications, Used by spraying. | |
| Use of the substance/ mixture | : Coating. | |
| Uses advised against | : Not applicable. | |
| Supplier's details | : PPG Coatings (Kunshan) Co., Ltd 53 Jinyang Road, Lujia Town, 215331 Kunshan City, Jiangsu Province, P.R. China Tel: 86 512 57678859 Fax: 86 512 57678857 | |
| Emergency telephone number (with hours of operation) | : 00 86 532 83889090 | |

Section 2. Hazards identification

Classification of the substance or mixture according to GB 13690-2009 and GB 30000-2013

Emergency overview Liquid. White. Aromatic. [Slight] 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.

IF exposed or concerned: Get medical advice or attention. If skin irritation or rash occurs: Get medical advice or attention. If eye irritation persists: Get medical advice or attention.

See Section 12 for environmental precautions.

| Section 2. Hazard | Is 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 Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 11.9% |
| GHS label elements | |
| Hazard pictograms | |
| Signal word | : Warning |
| Hazard statements | : 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. 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. |
| Suitable extinguishing media | : Use an extinguishing agent suitable for the surrounding fire. |
| Storage | : Store locked up. |
| Disposal | : Dispose of contents and container in accordance with all local, regional, national and international regulations. |
| Physical and chemical hazards | : No known significant effects or critical hazards. |
| Health hazards | : 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. |

| Section 2. Hazards identification | | |
|-----------------------------------|--|--|
| 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 effects and also chronic effects from short and long term exposure | | |
|--|--|--|
| Short term exposure | | |
| Potential immediate effects | : Not available. | |
| Potential delayed effects | : Not available. | |
| Long term exposure | | |
| Potential immediate effects | : Not available. | |
| Potential delayed effects | : Not available. | |
| Environmental hazards | : Very toxic to aquatic life. Toxic to aquatic life with long lasting effects. | |
| Other hazards which do not result in classification | : None known. | |

Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

CAS number/other identifiers

| CAS number | : Not applicable. |
|------------|-------------------|
|------------|-------------------|

| Ingredient name | % | CAS number |
|--|----------|------------------|
| kexaboron dizinc undecaoxide | 10 - <25 | 12767-90-7 |
| Borate(5-), bis[µ-oxotetraoxodiborato(4-)]-, ammonium tetrahydrogen, dihydrate, (T-4)- | 10 - <25 | 12046-04-7 |
| bis-[4-(2,3-epoxipropoxi)phenyl]propane | 10 - <25 | 1675-54-3 |
| tris(2-chloro-1-methylethyl) phosphate | 1 - <10 | 13674-84-5 |
| Polyphosphoric acids, ammonium salts | 1 - <10 | 68333-79-9 |
| triphenyl phosphate | 1 - <10 | 115-86-6 |
| Epoxy resin (MW \leq 700) | 1 - <10 | 25068-38-6 |
| cashew nut shell oil | 1 - <10 | 8007-24-7 |
| | | China Page: 3/15 |

Section 3. Composition/information on ingredients

| 2,2-bis(acryloyloxymethyl)butyl acrylate | 1 - <10 |
|---|----------|
| Quaternary ammonium compounds, benzylbis(hydrogenated tallow alkyl) | 0.1 - <1 |
| methyl, chlorides | |

15625-89-5 61789-73-9

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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

SUB codes represent substances without registered CAS Numbers.

Section 4. First aid measures

Description of necessary first aid measures

| Eye contact | 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

| wost important sympt | Jiis/effects, acute and delayed |
|------------------------|--|
| Potential acute health | <u>l effects</u> |
| 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 | /symptoms |
| 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 |

Date of issue 26 December 2023 Version 3.01

Product name PITT-CHAR NX BASE WHITE SF

Section 4. First aid measures

| : Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations |
|---|
| lical attention and special treatment needed, if necessary |
| : 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. |
| : No specific treatment. |
| : 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. |
| d |

See toxicological information (Section 11)

Section 5. Fire-fighting measures **Extinguishing media** Suitable extinguishing : Use an extinguishing agent suitable for the surrounding fire. media Unsuitable extinguishing : None known. media : In a fire or if heated, a pressure increase will occur and the container may burst. Specific hazards arising This material is very toxic to aquatic life. This material is toxic to aquatic life with from the chemical 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 may include the following materials: carbon oxides decomposition products nitrogen oxides phosphorus oxides halogenated compounds metal oxide/oxides **Special protective actions** : Promptly isolate the scene by removing all persons from the vicinity of the incident if for fire-fighters there is a fire. No action shall be taken involving any personal risk or without suitable training. **Special protective** Fire-fighters should wear appropriate protective equipment and self-contained ÷. breathing apparatus (SCBA) with a full face-piece operated in positive pressure equipment for fire-fighters mode.

Section 6. Accidental release measures

| Personal precautions, protect | tive 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". |
| · | : 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. |
| <u>Methods and materials for co</u> Small spill | Stop leak if without risk. Move containers from spill area. Dilute with water and more 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. 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 | : 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. |
|----------------------------------|---|
| | container. |

Section 7. Handling and storage

| 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. | (sec and rese | |
|---|---------------------|--|
|---|---------------------|--|

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

| Ingredient name | | | Exposure limits | | |
|--|-----------|---|---|--|--|
| Perato(5) bis[u evetetraeve | | erete(1)] emmenium tetrehydrogen | 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 | | |
| dihydrate, (T-4)- | air | orato(4-)]-, ammonium tetrahydrogen, | ACGIH TLV (United States). 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. | | |
| 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. | | | |
| ndividual protection measure | <u>es</u> | | | | |
| Hygiene measures | : | eating, smoking and using the lavator 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. ed to remove potentially contaminated clothing. of be allowed out of the workplace. Wash . Ensure that eyewash stations and safety location. | | |
| Eye protection <u>Skin protection</u> | : | Chemical splash goggles. | | | |

Product name PITT-CHAR NX BASE WHITE SF

Section 8. Exposure controls/personal protection

| Hand protection | : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. |
|------------------------|---|
| Gloves | : 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

| <u>Appearance</u> | | |
|--|-----------------------------|--|
| Physical state | Liquid. | |
| Color | White. | |
| Odor | Aromatic. [Slight] | |
| Boiling point | >37.78°C (>100°F) | |
| Flash point | Closed cup: 120°C (248°F) | |
| Lower and upper explosive (flammable) limits | Not available. | |
| Relative density | 1.55 | |
| Solubility(ies) | Media Result | |
| oolubility(les) | cold water Not soluble | |
| Viscosity | Kinematic (40°C): >21 mm²/s | |
| Viscosity | > 100 s (ISO 6mm) | |

Section 10. Stability and reactivity

| Reactivity | : No specific test data related to reactivity available for this product or its ingredients. |
|------------------------------------|--|
| Chemical stability | : The product is stable. |
| Possibility of hazardous reactions | : Under normal conditions of storage and use, hazardous reactions will not occur. |

Section 10. Stability and reactivity

| 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 |
|--|---------------------------------|---------|-------------|----------|
| kexaboron 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 | - |
| 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 | - |

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation | |
|---|---------------------------------------|---------|-------|--------------------|-------------|--|
| hexaboron dizinc undecaoxide | | | 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 | - | - | - | |

China Page: 9/15

Date of issue 26 December 2023 Version 3.01

Product name PITT-CHAR NX BASE WHITE SF

Section 11. Toxicological information

| | U | | | | | |
|--|----------------------|--------|---|---|---|--|
| | Skin - Mild irritant | Rabbit | - | - | - | |
| 2,2-bis(acryloyloxymethyl) butyl acrylate | Skin - Irritant | Rabbit | - | - | - | |

Sensitization

| Product/ingredient name | Route of exposure | Species | Result |
|---|----------------------|--------------------------|---|
| bis-[4-(2,3-epoxipropoxi) phenyl]propane Epoxy resin (MW ≤ 700) 2,2-bis(acryloyloxymethyl) butyl acrylate | skin skin skin | Mouse Mouse Rabbit | Sensitizing Sensitizing Sensitizing |

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

| Product/ingredient name | Maternal toxicity | Fertility | Development toxin | Species | Dose | Exposure |
|---------------------------------|-------------------|-----------|-------------------|---------|------|--------------------------------|
| hexaboron dizinc undecaoxide | Positive | Positive | Positive | | | 90 days; 7 days per week |

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

| Name | ••• | Route of exposure | Target organs |
|----------------------|------------|-------------------|------------------------------|
| cashew nut shell oil | Category 3 | | Respiratory tract irritation |

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely : Not available. routes of exposure

Potential acute health effectsEye 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.

Symptoms related to the physical, chemical and toxicological characteristics

Section 11. Toxicological information

| 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 effects and also chronic effects from short and long term exposure

| Short term exposure | | |
|--------------------------------|-----|---|
| Potential immediate effects | 1 | Not available. |
| Potential delayed effects | : | Not available. |
| Long term exposure | | |
| Potential immediate effects | 1 | Not available. |
| Potential delayed effects | : | Not available. |
| Potential chronic health effe | ect | <u>s</u> |
| 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

Acute toxicity estimates

| Product/ingredient name | Oral (mg/ kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapors) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|---|------------------|-------------------|--------------------------------|----------------------------------|--|
| TT-CHAR NX BASE WHITE SF | 6262.0 | 9412.0 | N/A | N/A | N/A |
| Borate(5-), bis[µ-oxotetraoxodiborato(4-)]-, ammonium tetrahydrogen, dihydrate, (T-4)- | 4200 | 2500 | N/A | N/A | N/A |
| bis-[4-(2,3-epoxipropoxi)phenyl]propane | 15000 | 23000 | N/A | N/A | N/A |
| tris(2-chloro-1-methylethyl) phosphate | 1500 | N/A | N/A | N/A | N/A |
| Polyphosphoric acids, ammonium salts | 4740 | N/A | N/A | N/A | N/A |
| triphenyl phosphate | 3500 | N/A | N/A | N/A | N/A |
| | | | | China | Page: 11/1 |

| Product code00444774Date of issue26 December 2023Version 3.01Product namePITT-CHAR NX BASE WHITE SF | | | | Version 3.01 | |
|---|--------------|--------------|------------|--------------|------------|
| Section 11. Toxicological inf | formation | 1 | | | |
| Epoxy resin (MW ≤ 700) 2,2-bis(acryloyloxymethyl)butyl acrylate | 2500 5190 | 2500 5170 | N/A N/A | N/A N/A | N/A N/A |

Other information

Tovioitu

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

| Product/ingredient name | Result | Species | Exposure |
|--|-----------------------------------|---|----------|
| exaboron 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 |
| 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/degradability

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

Bioaccumulative potential

Product name PITT-CHAR NX BASE WHITE SF

Section 12. Ecological information

| 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 nut shell oil | >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 |
|------------------|--|
| | 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

| | China | UN | IMDG | IATA |
|-------------------------------|--|--|--|--|
| UN number | UN3082 | 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. | 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) | (hexaboron dizinc undecaoxide, bis-[4- (2,3-epoxipropoxi) phenyl]propane) |
| Transport hazard class(es) | 9 | 9 | 9 | 9 |
| Packing group | | 111 | Ш | Ш |
| Environmental hazards | Yes. | Yes. | Yes. | Yes. |

Product code 00444774 Date of issue 26 December 2023 Version 3.01 Product name PITT-CHAR NX BASE WHITE SF Section 14. Transport information **Marine pollutant** Mexaboron dizinc Not applicable. Not applicable. Not applicable. substances undecaoxide) **Additional information** CN : None identified. 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. : This product is not regulated as a dangerous good when transported in sizes of ≤ 5 L or ≤ 5 kg, IMDG 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. : This product is not regulated as a dangerous good when transported in sizes of ≤ 5 L or ≤ 5 kg, IATA 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 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

| China inventory (IECSC) | : All components are listed or exempted. |
|-------------------------|---|
| References | Production Safety Law of the People's Republic of China Code of Occupational Disease Prevention of the People's Republic of China Environmental Protection Law of the People's Republic of China Fire Control Law of the People's Republic of China Regulations on the Control over Safety of Dangerous Chemicals Occupational exposure limits for hazardous agents in the workplace chemical hazardous agents (GBZ2.1) General rule for classification and hazard communication of chemicals (GB13690) Safety data sheet for chemical products - Content and order of sections (GB/ T16483) Guidance on the compilation of safety data sheet for chemical products (GB/ T17519) General rule for preparation of precautionary label for chemicals (GB15258) Safety rules for classification, precautionary labeling and precautionary statements of chemicals (GB30000.2-29) |
| | |

Section 16. Other information

. . .

| <u>History</u> | |
|-----------------------------------|--------------------|
| Date of issue/Date of revision | : 26 December 2023 |
| Date of previous issue | : 10/23/2023 |
| Version | : 3.01 |
| | EHS |

Product name PITT-CHAR NX BASE WHITE SF

Section 16. Other information

| Key to abbreviations | : ADN = European Provisions concerning the International Carriage of Dangerous |
|----------------------|--|
| | Goods by Inland Waterway |
| | ADR = The European Agreement concerning the International Carriage of |
| | Dangerous Goods by Road |
| | ATE = Acute Toxicity Estimate |
| | BCF = Bioconcentration Factor |
| | GHS = Globally Harmonized System of Classification and Labelling of Chemicals |
| | IATA = International Air Transport Association |
| | IMDG = International Maritime Dangerous Goods |
| | LogPow = logarithm of the octanol/water partition coefficient |
| | MARPOL = International Convention for the Prevention of Pollution From Ships, |
| | 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) |
| | RID = The Regulations concerning the International Carriage of Dangerous Goods |
| | by Rail |
| | UN = United Nations |
| _ | |

Indicates information that has changed from previously issued version.

Notice to reader

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.