# **SAFETY DATA SHEET**



3/8/2024 (month/day/year) Date of issue

Version 1

### Section 1. Chemical product and company identification

A. Product name	: PITT-CHAR NX BASE OFFWHITE
Product code	: 00461155

#### B. Relevant identified uses of the substance or mixture and uses advised against

Product use Use of the substance/ mixture	<ul><li>Professional applications, Used by spraying.</li><li>Coating.</li></ul>
Uses advised against	: Product is not intended, labelled or packaged for consumer use.
C. Supplier's or Importer's information	: PPG SSC (680-090) 19, Yeocheon-ro 217beon-gil, Nam-gu, Ulsan, Korea Tel: +82-52-210-8222
Email Address	Korea.MSDS@PPG.COM
Emergency telephone number:	: +82-52-210-8331

## Section 2. Hazards identification

A. Hazard classification	: SKIN IRRITATION - Category 2
	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 1
<del>.</del>	

This product is classified in accordance with the Industrial Safety and Health Act and the Chemical Control Act.

#### B. GHS label elements, including precautionary statements 2

Symbol

	¥2

Signal word	: Warning
Hazard statements	: H315 - Causes skin irritation.
	H317 - May cause an allergic skin reaction.
	H319 - Causes serious eye irritation.
	H351 - Suspected of causing cancer.
	H361 - Suspected of damaging fertility or the unborn child.
	H410 - Very toxic to aquatic life with long lasting effects.

Korea (GHS)

Page: 1/14

Date of issue 3/8/2024 (month/day/year)

Version 1

Product name PITT-CHAR NX BASE OFFWHITE

### Section 2. Hazards identification

Precautionary statements	6
Prevention	<ul> <li>P202 - Do not handle until all safety precautions have been read and understood.</li> <li>P280 - Wear protective gloves, protective clothing and eye or face protection.</li> <li>P273 - Avoid release to the environment.</li> <li>P261 - Avoid breathing vapor.</li> <li>P264 - Wash thoroughly after handling.</li> </ul>
Response	<ul> <li>P391 - Collect spillage.</li> <li>P308 + P313 - IF exposed or concerned: Get medical advice or attention.</li> <li>P362 + P364 - Take off contaminated clothing and wash it before reuse.</li> <li>P302 + P352 - IF ON SKIN: Wash with plenty of water.</li> <li>P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.</li> <li>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.</li> <li>Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P337 + P313 - If eye irritation persists: Get medical advice or attention.</li> </ul>
Storage	: Not applicable.
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
C. Other hazards which do	: None known.

# Section 3. Composition/information on ingredients

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

not result in classification

#### CAS number : Not applicable.

Chemical name	Common name	Identifiers	%
hexaboron dizinc undecaoxide	hexaboron dizinc undecaoxide	CAS: 12767-90-7	20 - <30
Borate(5-), bis[µ-oxotetraoxodiborato(4-)] -, ammonium tetrahydrogen, dihydrate, (T-4)-	ammonium pentaborate	CAS: 12046-04-7	20 - <30
bis-[4-(2,3-epoxipropoxi)phenyl]propane	Bisphenol A diglycidyl ether	CAS: 1675-54-3	10 -<20
phosphorous oxychloride, reaction products with propylene oxide	phosphorous oxychloride, reaction products with propylene oxide	CAS: 1244733-77-4	5 - <10
triphenyl phosphate	Triphenylphosphate	CAS: 115-86-6	5 - <10
Epoxy resin (MW ≤ 700)	EPOXY RESIN ( AVERAGE MOLECULAR WT < 700)	CAS: 25068-38-6	1 - <5
Cashew, nutshell lig.	CASHEW NUTSHELL LÍQUID	CAS: 8007-24-7	1 - <5
2,2-bis(acryloyloxymethyl)butyl acrylate	Trimethylolpropane triacrylate	CAS: 15625-89-5	1 - <5
Quaternary ammonium compounds, benzylbis(hydrogenated tallow alkyl) methyl, chlorides	QUATERNARY AMMONIUM COMPOUNDS, METHYL, CHLORIDES	CAS: 61789-73-9	0.1 - <1

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.

# Section 4. First aid measures

Α.	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.
В.	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.
C.	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.
D.	Ingestion	:	If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.
Ε.	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	4	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.

See toxicological information (Section 11)

### Section 5. Fire-fighting measures

Α.	Extinguishing media		
	Suitable extinguishing media	:	Use an extinguishing agent suitable for the surrounding fire.
	Unsuitable extinguishing media	:	None known.
В.	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 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
C.	Special equipment for fire-fighting	:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Fire-fighting procedures	:	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.
			Korea (GHS) Page: 3/14

Product name PITT-CHAR NX BASE OFFWHITE

### Section 6. Accidental release measures

A. Personal precautions, protective equipment and emergency procedures	:	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.
B. 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.
C. Methods and materials for	co	ontainment 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.
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

Α.	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.
В.	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

#### A

Α.	Occupational exposure limits			
	Ingredient name	Exposure limit	S	
	hexaboron dizinc undecao Borate(5-), bis[µ-oxotetrao	TWA: 10 mg/m Inhalable fraction TWA: 3 mg/m Respirable fract ato(4-)]-, ammonium	ACGIH TLV (United States, 1/2013). TWA: 10 mg/m <sup>3</sup> , (Dusts and mists) Form: Inhalable fraction TWA: 3 mg/m <sup>3</sup> , (Dusts and mists) Form: Respirable fraction ACGIH TLV (United States).	
	tetrahydrogen, dihydrate, (		<sup>3</sup> Form: Respirable dust	
	triphenyl phosphate	Ministry of Em (Republic of K	TWA: 10 mg/m <sup>3</sup> Form: inhalable dust <b>Ministry of Employment and Labor</b> (Republic of Korea, 1/2020). TWA: 3 mg/m <sup>3</sup> 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.		
В.	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	ssions from ventilation or work process equipment s comply with the requirements of environmental pro es, fume scrubbers, filters or engineering modification pment will be necessary to reduce emissions to acc	tection legislation. In some	
C.	Personal protective equip			
	Respiratory protection	<ul> <li>Protection</li> <li>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 thi necessary.</li> </ul>		
	Eye protection	emical splash goggles.		
	Hand protection	emical-resistant, impervious gloves complying with a worn at all times when handling chemical products i is necessary. Considering the parameters specifie ck during use that the gloves are still retaining their	f a risk assessment indicates d by the glove manufacturer,	

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 5
- : Personal protective equipment for the body should be selected based on the task **Body protection** being performed and the risks involved and should be approved by a specialist before handling this product. : Wash hands, forearms and face thoroughly after handling chemical products, before **Hygiene measures** 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.

Korea (GHS) Page: 5/14

Version 1

Product name PITT-CHAR NX BASE OFFWHITE

### Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Α.	Appearance			
	Physical state	1	Liquid.	
	Color	1	Off-white.	
В.	Odor	1	Characteristic.	
С.	Odor threshold	1	Not available.	
D.	рН	1	Not applicable.	
Ε.	Melting/freezing point	1	Not available.	
F.	Boiling point/boiling range	:	>37.78°C (>100°F)	
G.	Flash point	1	Closed cup: Not appli	icable.
н.	Evaporation rate	1	Not available.	
Т.	Flammability (solid, gas)	1	Not available.	
J.	Lower and upper explosive (flammable) limits	:	Not available.	
К.	Vapor pressure	1		Vap

2

2

ŝ,

2

ŝ,

ŝ,

	Vapo	r Pressu	ure at 20°C	Vapor pressure at 50°		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
2,2-bis (acryloyloxymethyl)butyl acrylate	0.00075	0.0001	OECD 104			
Media	Re	sult	·			
cold water	No	t soluble	;			
Not available.						
Not available.						
1.56						
Not applicable.						
Ingredient name		°C	°F		Method	
2,2-bis(acryloyloxymethyl) acrylate	385	725		EU A.15		

Q. Decomposition temperature

L. Solubility(ies)

Solubility in water

Vapor density

octanol/water Auto-ignition

temperature

**Relative density** 

Partition coefficient: n-

Μ.

N.

Ο.

Ρ.

S.

- : Kinematic (40°C (104°F)): >21 mm<sup>2</sup>/s (>21 cSt)
- R. Flow time (ISO 2431)
  - Molecular weight
- : Not available.
  - : Not applicable.

: Not available.

## Section 10. Stability and reactivity

Α.	Chemical stability	1	The product is stable.
	Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
В.	Conditions to avoid	:	When exposed to high temperatures may produce hazardous decomposition products.
C.	Incompatible materials	:	Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
D.	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

Α.	Information on the like routes of exposure	ly	: Not available.							
<u>P</u>	Potential acute health effects									
	Inhalation	:	No known significant effects or critical hazards.							
	Ingestion	:	No known significant effects or critical hazards.							
	Skin contact	:	Causes skin irritation. May cause an allergic skin reaction.							
	Eye contact	:	Causes serious eye irritation.							
<u>0</u>	<u>ver-exposure signs/syr</u>	np	<u>toms</u>							
	Inhalation	:	Adverse symptoms may include the following: 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							
	Skin contact	:	Adverse symptoms may include the following: irritation redness reduced fetal weight increase in fetal deaths skeletal malformations							
	Eye contact	:	Adverse symptoms may include the following: pain or irritation watering redness							

B. Health hazards

Acute toxicity

### Section 11. Toxicological information

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	-
triphenyl phosphate	LD50 Dermal	Rabbit	>7900 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
Epoxy resin (MW ≤ 700)	LD50 Dermal	Rabbit	>2 g/kg	-
2.2 bic(acryloyloyymothyl)butyl condete	LD50 Oral LD50 Dermal	Rat Rabbit	>2 g/kg	-
2,2-bis(acryloyloxymethyl)butyl acrylate	LD50 Oral	Rat	5170 mg/kg 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	: There are no data available on the mixture itself.

Respiratory

: There are no data available on the mixture itself.

#### **Sensitization**

Date of issue 3/8/2024 (month/day/year)

Version 1

Product name PITT-CHAR NX BASE OFFWHITE

## Section 11. Toxicological information

Product/ingredient name	Route of exposure	Species	Result	
bis-[4-(2,3-epoxipropoxi) phenyl]propane	skin	Mouse	Sensitizing	
Epoxy resin (MW ≤ 700) 2,2-bis(acryloyloxymethyl) butyl acrylate	skin skin	Mouse Rabbit	Sensitizing Sensitizing	
Conclusion/Summary				
Skin :	There are no da	ta available on the mixture	e itself.	
Respiratory :	There are no da	ta available on the mixture	e itself.	

#### **Mutagenicity**

Conclusion/Summary	: There are no data available on the mixture itself.
<b>Carcinogenicity</b>	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.

#### **Reproductive toxicity**

Product/ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure
hexaboron dizinc undecaoxide	Positive	Positive	Positive	Rat		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 (repeated exposure) Not available.

#### Aspiration hazard

Not available.

#### Potential chronic health effects

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.

#### **Additional information**

Product name PITT-CHAR NX BASE OFFWHITE

### Section 11. Toxicological 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.

Chemical name	Identifiers	GHS Classification
hexaboron dizinc undecaoxide	CAS: 12767-90-7	EYE IRRITATION - Category 2A TOXIC TO REPRODUCTION - Category 2 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2
Borate(5-), bis[µ-oxotetraoxodiborato(4-)] -, ammonium tetrahydrogen, dihydrate, (T-4)-	CAS: 12046-04-7	TOXIC TO REPRODUCTION - Category 2
bis-[4-(2,3-epoxipropoxi)phenyl]propane	CAS: 1675-54-3	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1B AQUATIC HAZARD (LONG-TERM) - Category 2
phosphorous oxychloride, reaction products with propylene oxide	CAS: 1244733-77-4	ACUTE TOXICITY (oral) - Category 4
triphenyl phosphate	CAS: 115-86-6	AQUATIC HAZARD (LONG-TERM) - Category 3 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1
Epoxy resin (MW ≤ 700)	CAS: 25068-38-6	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1B AQUATIC HAZARD (LONG-TERM) - Category 2
Cashew, nutshell liq.	CAS: 8007-24-7	ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1B AQUATIC HAZARD (LONG-TERM) - Category 4
2,2-bis(acryloyloxymethyl)butyl acrylate	CAS: 15625-89-5	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1B CARCINOGENICITY - Category 2 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1
Quaternary ammonium compounds, benzylbis(hydrogenated tallow alkyl) methyl, chlorides	CAS: 61789-73-9	SKIN IRRITATION - Category 2
		SERIOUS EYE DAMAGE - Category 1 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1

## Section 12. Ecological information

#### A. <u>Ecotoxicity</u>

Product/ingredient name	Result	Species	Exposure
hexaboron dizinc undecaoxide	Acute EC50 76 mg/l	Daphnia - <i>Daphnia magna</i>	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
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

#### B. 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		Biodeg	radability
bis-[4-(2,3-epoxipropoxi) phenyl]propane Epoxy resin (MW  ≤ 700)	-		-		Not rea	2

#### C. 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 $\leq$ 700)	3	31	Low
Cashew, nutshell liq.	>4.78	-	High
2,2-bis(acryloyloxymethyl) butyl acrylate	0.67	-	Low

Korea (GHS) Page: 11/14

Date of issue 3/8/2024 (month/day/year)

Product name PITT-CHAR NX BASE OFFWHITE

### Section 12. Ecological information

### D. <u>Mobility in soil</u>

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

E. <u>Other adverse effects</u> : No known significant effects or critical hazards.

## Section 13. Disposal considerations

- A. 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.
- B. Disposal precautions
   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
A. UN number	UN3082	UN3082	UN3082
B. 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)
C. Transport hazard class(es)	9	9	9
D. Packing group			
Environmental hazards	Yes.	Yes.	Yes.
E. 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.
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.

### Section 14. Transport information

# F. Special precaution which a user to be aware of or needs to comply with in connection with transport or transportation

**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

Α.	Regulation according to I	<u>SHA</u>				
	ISHA article 117 (Harmful substances prohibited from manufacture)	: None of the components are listed.				
	ISHA article 118 (Harmful substances requiring permission)	: None of the components are listed.				
	Article 2 of Youth Protection Act on Substances Hazardous to Youth	: It is not allowed to sell to persons under the age of 19.				
	Exposure Limits of Chem	cal Substances and Physical Factors				
	The following components have an OEL: hexaboron dizinc undecaoxide Borate(5-), bis[µ-oxotetraoxodiborato(4-)]-, ammonium tetrahydrogen, dihydrate, (T-4)- triphenyl phosphate					
	ISHA Enforcement Regs Annex 19 (Exposure standards established for harmful factors)	: None of the components are listed.				
	ISHA Enforcement Regs Annex 21 (Harmful factors subject to Work Environment Measurement)	: None of the components are listed.				
	ISHA Enforcement Regs Annex 22 (Harmful Factors Subject to Special Health Check- up)	: None of the components are listed.				
	Standard of Industrial Safety and Health Annex 12 (Hazardous substances subject to control)	: The following components are listed: zinc and its compounds				
В.	Regulation according to (	hemicals Control Act				
	Article 11 (TRI)	: The following components are listed: Boron and its compounds, 4,4'- (1-Methylethylidene) bisphenol polymer with (chloromethyl)oxirane				

Korea (GHS) Page: 13/14

Date of issue 3/8/2024 (month/day/year)

Version 1

#### Product name PITT-CHAR NX BASE OFFWHITE

### Section 15. Regulatory information

	5		5
	Article 18 Prohibited (K- Reach Article 27)	:	None of the components are listed.
	Article 19 Subject to authorization (K-Reach Article 25)	:	None of the components are listed.
	Article 20 Restricted (K- Reach Article 27)	1	None of the components are listed.
	Article 20 Toxic Chemicals (K-Reach Article 20)	:	Not applicable
	Korea inventory	1	All components are listed or exempted.
	Article 39 (Accident Precaution Chemicals)	1	None of the components are listed.
C.	<u>Dangerous Materials</u> Safety Management Act	:	Not applicable.
D.	Wastes regulation	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Ε.	Regulation according to other foreign laws		
	Safety, health and environmental	:	No known specific national and/or regional regulations applicable to this product (including its ingredients).

### Section 16. Other information

regulations specific for

the product

Α.	References	<ul> <li>Korean Ministry of Environment; Chemical Control Act Korean Ministry of Labor; Industrial Safety and Health Act NIER Notice Registry of Toxic Effects of Chemical Substances (RTECS) U.S. Environmental Protection Agency, AQUIRE (Aquatic toxicity Information Retrieval) ECOTOX Database System.</li> </ul>	า
В.	Date of issue/Date of revision	: 3/8/2024	
<b>C</b> .	Version	: 1	
	Prepared by	: EHS	
П	Othor		

D. Other

✓ Indicates information that has changed from previously issued version.

#### <u>Disclaimer</u>

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.