# SAFETY DATA SHEET



Date of issue 1/16/2024 (month/day/year)

Version 6.02

# Section 1. Chemical product and company identification

A. Product name : PITT-CHAR NX BASE WHITE Product code : 000001176643

Other means of identification 00424801; 00471806

	Product use		he substance or mixture and uses advised against Professional applications, Used by spraying.
	Use of the substance/ mixture	:	Coating.
	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 Korea.MSDS@PPG.COM
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	Emergency telephone number:	:	+82-52-210-8222

# Section 2. Hazards identification

Α.	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

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 Symbol :



Signal word

: Warning

## Product name PITT-CHAR NX BASE WHITE

## Section 2. Hazards identification

Hazard statements	:	<ul> <li>H315 - Causes skin irritation.</li> <li>H317 - May cause an allergic skin reaction.</li> <li>H319 - Causes serious eye irritation.</li> <li>H351 - Suspected of causing cancer.</li> <li>H361 - Suspected of damaging fertility or the unborn child.</li> <li>H410 - Very toxic to aquatic life with long lasting effects.</li> </ul>
Precautionary statements	5	
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	1	Not applicable.
Disposal	:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Other bezerde which de		None known

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

# Section 3. Composition/information on ingredients

#### CAS number/other identifiers

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
tris(2-chloro-1-methylethyl) phosphate	TRI(2-PROPYL)PHOSPHATE	CAS: 13674-84-5	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 AMMONÍUM COMPOUNDS, METHYL, CHLORIDES	CAS: 61789-73-9	0.1 - <1

Product name PITT-CHAR NX BASE WHITE

# Section 3. Composition/information on ingredients

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.
Е.	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	1	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	1	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

## Section 5. Fire-fighting measures

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.

## Section 6. Accidental release measures

A. Personal precautions, protective equipment and emergency procedures	o action shall be taken involving any personal risk or without suitable training vacuate surrounding areas. Keep unnecessary and unprotected personne ntering. Do not touch or walk through spilled material. Avoid breathing vap nist. Provide adequate ventilation. Wear appropriate respirator when venti- nadequate. Put on appropriate personal protective equipment.	l from
B. Environmental precautions	void dispersal of spilled material and runoff and contact with soil, waterway rains and sewers. Inform the relevant authorities if the product has caused nvironmental pollution (sewers, waterways, soil or air). Water polluting ma lay be harmful to the environment if released in large quantities. Collect sp	l terial.
C. Methods and materials for	ainment and cleaning up	
Small spill	top leak if without risk. Move containers from spill area. Dilute with water a p if water-soluble. Alternatively, or if water-insoluble, absorb with an inert d naterial and place in an appropriate waste disposal container. Dispose of v censed waste disposal contractor.	lry
Large spill	top leak if without risk. Move containers from spill area. Approach release pwind. Prevent entry into sewers, water courses, basements or confined a /ash spillages into an effluent treatment plant or proceed as follows. Conta ollect spillage with non-combustible, absorbent material e.g. sand, earth, ermiculite or diatomaceous earth and place in container for disposal accord coal regulations (see Section 13). Dispose of via a licensed waste disposal ontractor. Contaminated absorbent material may pose the same hazard as pilled product. Note: see Section 1 for emergency contact information and 3 for waste disposal.	reas. ain and ding to s the

## Section 7. Handling and storage

A. 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.

# Section 7. Handling and storage

B. 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. Occupational exposure limits

	Ingredient name			Exposure limits				
	hexaboron dizinc undecao Borate(5-), bis[µ-oxotetrao tetrahydrogen, dihydrate, ( triphenyl phosphate	XO	diborato(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). TWA: 3 mg/m <sup>3</sup> Form: Respirable dust TWA: 10 mg/m <sup>3</sup> Form: inhalable dust Ministry of Employment and Labor (Republic of Korea, 1/2020). TWA: 3 mg/m <sup>3</sup> 8 hours.				
	Recommended monitoring procedures	:		iate monitoring standards. Reference to nods for the determination of hazardous				
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	:						
С.	Personal protective equip	om	ent					
	Respiratory protection		hazards of the product and the safe w workers are exposed to concentration appropriate, certified respirators. Use	n known or anticipated exposure levels, the vorking limits of the selected respirator. If is above the exposure limit, they must use a properly fitted, air-purifying or air-fed d standard if a risk assessment indicates this is				
	Hand protection			s complying with an approved standard should				
	-		be worn at all times when handling ch this is necessary. Considering the pa check during use that the gloves are should be noted that the time to break	nemical products if a risk assessment indicates irameters specified by the glove manufacturer, still retaining their protective properties. It kthrough for any glove material may be irers. In the case of mixtures, consisting of				

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Ρ.

**Auto-ignition** 

temperature

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## Section 8. Exposure controls/personal protection

Gloves	: polyethylene butyl rubber
Cloves	
Body protection	<ul> <li>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.</li> </ul>
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.

# 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	:	Liquid.			
	Color	:	White.			
В.	Odor	:	Characteristic.			
С.	Odor threshold	:	Not available.			
D.	рН	:	Not applicable.			
Ε.	Melting/freezing point	:	Not available.			
F.	Boiling point/boiling range	:	>37.78°C (>100°F)			
G.	Flash point	:	Closed cup: Not app	licable.		
н.	Evaporation rate	:	Not available.			
Ι.	Flammability (solid, gas)	:	Not available.			
J.	Lower and upper explosive (flammable) limits	:	Not available.			
	mmts					
к.	Vapor pressure	:		Vapo	r Pressu	re at 20°C
К.		:	Ingredient name	Vapo mm Hg	r Pressu kPa	re at 20°C Method
K.		:	2,2-bis (acryloyloxymethyl)butyl acrylate			1
	Vapor pressure	:	2,2-bis (acryloyloxymethyl)butyl	<b>mm Hg</b>	kPa	Method
K. L.	Vapor pressure	:	2,2-bis (acryloyloxymethyl)butyl acrylate	mm Hg 0.00075 Re	<b>kPa</b> 0.0001	Method OECD 104
	Vapor pressure	: : : :	2,2-bis (acryloyloxymethyl)butyl acrylate Media	mm Hg 0.00075 Re	kPa 0.0001 esult	Method OECD 104
L.	Vapor pressure Solubility(ies)		2,2-bis (acryloyloxymethyl)butyl acrylate Media cold water	mm Hg 0.00075 Re	kPa 0.0001 esult	Method OECD 104
	Vapor pressure Solubility(ies) Solubility in water		2,2-bis (acryloyloxymethyl)butyl acrylate Media cold water Not available.	mm Hg 0.00075 Re	kPa 0.0001 esult	Method OECD 104

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Vapor pressure at 50°C

Method

kPa

mm Hg

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# Section 9. Physical and chemical properties

	Ingredient name	°C	°F	Method	
	2,2-bis(acryloyloxymethyl)butyl acrylate	385	725	EU A.15	
Decomposition temperature	: Not available.				
Viscosity	: Kinematic (40°C (104°F)):	>21 mm²/s (>2	21 cSt)		

- Flow time (ISO 2431) : Not available.
- Molecular weight S.

Q.

R.

ight : Not applicable.

# Section 10. Stability and reactivity

Α.	Chemical stability Possibility of hazardous reactions		The product is stable. 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

A. Information on t routes of exposit	
Potential acute hea	Ilth 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>Over-exposure sig</u>	ns/symptoms
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

# Section 11. Toxicological information

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

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	-
tris(2-chloro-1-methylethyl) phosphate	LC50 Inhalation Dusts and mists	Rat	>7 mg/l	4 hours
	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	1500 mg/kg	-
triphenyl phosphate	LD50 Dermal	Rabbit	>7900 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
Epoxy resin (MW ≤ 700)	LD50 Dermal	Rabbit	>2 g/kg	-
	LD50 Oral	Rat	>2 g/kg	-
2,2-bis(acryloyloxymethyl)butyl acrylate	LD50 Dermal	Rabbit	5170 mg/kg	-
	LD50 Oral	Rat	5.19 g/kg	-

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

## Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
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	-	-	-

clusion/Summary

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## Section 11. Toxicological information

- : There are no data available on the mixture itself.
- Eyes Respirator
- : There are no data available on the mixture itself.
- Respiratory
- : There are no data available on the mixture itself.

#### **Sensitization**

Skin

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

Skin	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.

#### **Mutagenicity**

Conclusion/Summary	1	There are no data available on the mixture itself.
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#### **Carcinogenicity**

Conclusion/Summary : 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	Oral: 375 mg/kg	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.
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## Section 11. Toxicological information

Mutagenicity

: No known significant effects or critical hazards.

Reproductive toxicity

: Suspected of damaging fertility or the unborn child.

#### **Additional 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
tris(2-chloro-1-methylethyl) phosphate triphenyl phosphate	CAS: 13674-84-5 CAS: 115-86-6	ACUTE TOXICITY (oral) - Category 4 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

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# Section 12. Ecological information

## A. Ecotoxicity

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
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 d	ays	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
bis-[4-(2,3-epoxipropoxi) phenyl]propane Epoxy resin (MW ≤ 700)	-		-		Not rea Not rea	5

#### C. Bioaccumulative potential

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

## D. Mobility in soil

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

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

Product name PITT-CHAR NX BASE WHITE

# Section 13. Disposal considerations

Α.	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.
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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. (hexaboron dizinc undecaoxide, bis-[4- (2,3-epoxipropoxi)phenyl] propane)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (hexaboron dizinc undecaoxide, bis-[4- (2,3-epoxipropoxi)phenyl] propane)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (hexaboron dizinc undecaoxide, bis-[4- (2,3-epoxipropoxi)phenyl] propane)	
C. Transport hazard class(es)	9	9	9	
D. Packing group	III	III	III	
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.

# 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.

## Section 14. Transport information

Transport in bulk according : Not applicable. to IMO instruments

# Section 15. Regulatory information

## A. Regulation according to ISHA

Β.

authorization (K-Reach

Article 25)

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 Chemical 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				
	: None of the components are listed.			
	: None of the components are listed.			
· · · · · · · · · · · · · · · · · · ·	: None of the components are listed.			
	: The following components are listed: zinc and its compounds			
Regulation according to Chemicals Control Act				
Article 11 (TRI)	: The following components are listed: Boron and its compounds, 4,4'- (1-Methylethylidene) bisphenol polymer with (chloromethyl)oxirane			
Article 18 Prohibited (K- Reach Article 27)	: None of the components are listed.			
Article 19 Subject to	: None of the components are listed.			

## Section 15. Regulatory information

<u> </u>	Article 20 Restricted (K- Reach Article 27)	:	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)	:	None of the components are listed.
C.	<u>Dangerous Materials</u> <u>Safety Management Act</u>	:	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 regulations specific for the product	:	No known specific national and/or regional regulations applicable to this product (including its ingredients).

## Section 16. Other information

Α.	References	: 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.
В.	Date of issue/Date of revision	: 1/16/2024
С.	Version	: 6.02
	Prepared by	: EHS
Б	Other	

D. Other

Indicates information that has changed from previously issued version.

#### **Disclaimer**

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.