SAFETY DATA SHEET



Date of issue 12/11/2024 (month/day/year)

Version 9

Section 1. Chemical product and company identification

A. Product name : PITT-CHAR NX BASE WHITE

Product code : 00424804

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

Product use : 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

Email Address

: PPG SSC (680-090)

19, Yeocheon-ro 217beon-gil, Nam-gu,

Ulsan, Korea

Tel: +82-52-210-8222 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

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

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Product name PITT-CHAR NX BASE WHITE

Section 2. Hazards identification

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.

H400 - Very toxic to aquatic life.

H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention

: P202 - Do not handle until all safety precautions have been read and understood.

P280 - Wear protective gloves, protective clothing and eye or face protection.

P273 - Avoid release to the environment.

P261 - Avoid breathing vapor.

P264 - Wash thoroughly after handling.

Response : P391 - Collect spillage.

P308 + P313 - IF exposed or concerned: Get medical advice or attention.

P302 + P352 - IF ON SKIN: Wash with plenty of water.

P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.

P362 + P364 - Take off contaminated clothing and wash it before reuse.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.

P321 - Specific treatment (see the label).

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

not result in classification

: None known.

Section 3. Composition/information on ingredients

CAS number/other identifiers

CAS number : Not applicable.

Chemical name	Common name	Identifiers	%
rexaboron dizinc undecaoxide	hexaboron dizinc undecaoxide	CAS: 12767-90-7	20 - <30
		EC: 235-804-2	
Borate(5-), bis[μ-oxotetraoxodiborato(4-)] -, ammonium tetrahydrogen, dihydrate, (T-4)-	ammonium pentaborate	CAS: 12046-04-7	20 - <30
		EC: 234-521-1	
4,4'-(1-methylethylidene)bisphenol polymer with (chloromethyl)oxirane	EPOXY RESIN	CAS: 25068-38-6	10 -<20
		EC: 500-033-5	
tris(2-chloro-1-methylethyl) phosphate	TRI(2-PROPYL)PHOSPHATE	CAS: 13674-84-5	5 - <10
		EC: 237-158-7	
triphenyl phosphate	Triphenylphosphate	CAS: 115-86-6 EC: 204-112-2	5 - <10
Epoxy resin (MW ≤ 700)	EPOXY RESIN (AVERAGE MOLECULAR WT < 700)	CAS: 25068-38-6	1 - <5

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Product name PITT-CHAR NX BASE W	HITE							
Section 3. Composition/	Section 3. Composition/information on ingredients							
Cashew, nutshell liq.	CASHEW NUTSHELL LIQUID	EC: 500-033-5 CAS: 8007-24-7 EC: 232-355-4	1 - <5					
2,2-bis(acryloyloxymethyl)butyl acrylate	Trimethylolpropane triacrylate	CAS: 15625-89-5 EC: 239-701-3	1 - <5					
Quaternary ammonium compounds, benzylbis(hydrogenated tallow alkyl) methyl, chlorides	QUATERNARY AMMONIUM COMPOUNDS, METHYL, CHLORIDES	CAS: 61789-73-9	0.1 - <1					
		EC: 263-082-9						

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.

Section 4. First aid measures

3	ection 4. First aid		illeasures
A.	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.
E.	Notes to physician	:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Specific treatments	:	No specific treatment.
	Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

A. Extinguishing media

Suitable extinguishing

media

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media

: None known.

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Product name PITT-CHAR NX BASE WHITE

Section 5. Fire-fighting measures

from the chemical

B. Specific hazards arising : 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

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

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

: 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 containment 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

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Product name PITT-CHAR NX BASE WHITE

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.

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 undecaoxide	ACGIH TLV (United States, 1/2013) TWA: 3 mg/m³ (Dusts and mists). Form: Respirable fraction. TWA: 10 mg/m³ (Dusts and mists). Form: Inhalable fraction.
Borate(5-), bis[µ-oxotetraoxodiborato(4-)]-, ammonium tetrahydrogen, dihydrate, (T-4)- triphenyl phosphate	ACGIH TLV (United States) TWA: 10 mg/m³. Form: inhalable dust. TWA: 3 mg/m³. Form: Respirable dust. ISHA Article 42 (Republic of Korea, 1/2020) TWA 8 hours: 3 mg/m³.

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.
- controls
- B. Appropriate engineering: 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.
- C. Personal protective equipment

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Section 8. Exposure controls/personal protection

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.

Eye protection : Chemical splash goggles.

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.

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.

A. Appearance

Physical state : Liquid.

Color : Not available.

B. Odor : Characteristic.

C. Odor threshold : Not available.

D. pH : Not applicable.

E. Melting/freezing point : Not available.

F. Boiling point/boiling

range

: >37.78°C (>100°F)

G. Flash point : Closed cup: Not applicable.

H. Evaporation rate : Not available.
I. Flammability (solid, gas) : Not available.
J. Lower and upper : Not available.

explosive (flammable)

limits

K. Vapor pressure :

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Section 9. Physical and chemical properties

	Vapor Pressure at 20°C			Vapor pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
2,2-bis (acryloyloxymethyl)butyl acrylate	0.00075	0.0001	OECD 104			

L. Solubility(ies)

Media Result cold water Not soluble

Solubility in water Vapor density

Product code 00424804

Not available. Not available.

Relative density

: 1.56

Partition coefficient: n-

: Not applicable.

octanol/water

Auto-ignition temperature

Ingredient name	°C	°F	Method
2,2-bis(acryloyloxymethyl)butyl acrylate	385	725	EU A.15

Decomposition temperature

: Not available.

Viscosity R.

: Dynamic (room temperature): Not available. Kinematic (room temperature): Not available. Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)

Flow time (ISO 2431) **Molecular weight**

: Not available. : Not applicable.

Section 10. Stability and reactivity

A. Chemical stability

: The product is stable.

Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

B. 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 phosphorus oxides halogenated compounds metal oxide/ oxides

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Product name PITT-CHAR NX BASE WHITE

Section 11. Toxicological information

A. Information on the likely routes of exposure

: Not available.

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.

Over-exposure signs/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

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
xexaboron 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	-
4,4'-(1-methylethylidene)bisphenol polymer with (chloromethyl)oxirane	LD50 Dermal	Rabbit	>2 g/kg	-
	LD50 Oral	Rat	>2 g/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	-

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Product name PITT-CHAR NX BASE WHITE

Section 11. Toxicological information

LD50 Oral Rat 5.19 g/kg -

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

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
exaboron dizinc undecaoxide	Eyes - Cornea opacity	Rabbit	33	24 hours 0.083g	74 hours
4,4'-(1-methylethylidene) bisphenol polymer with (chloromethyl)oxirane	Eyes - Mild irritant	Rabbit	-	100 mg	-
,	Eyes - Moderate irritant	Rabbit	_	-	-
	Skin - Moderate irritant	Rabbit	_	-	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 UI	-
	Skin - Severe irritant	Rabbit	-	24 hours 2 mg	-
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

Product/ingredient name	Route of exposure	Species	Result
√,4'-(1-methylethylidene) bisphenol polymer with (chloromethyl)oxirane √,4'-(1-methylethylidene) √,4'-(1-methylethylethylidene) √,4'-(1-methylethylethylethylethylethylethylethyl	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 data available on the mixture itself.Respiratory : There are no data available on the mixture itself.

Mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

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Section 11. Toxicological information

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

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
rexaboron dizinc undecaoxide	CAS: 12767-90-7 EC: 235-804-2	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 EC: 234-521-1	TOXIC TO REPRODUCTION - Category 2
4,4'-(1-methylethylidene)bisphenol polymer with (chloromethyl)oxirane	CAS: 25068-38-6	SKIN IRRITATION - Category 2
	EC: 500-033-5	EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1

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Section 11. Toxicological information

		AQUATIC HAZARD (LONG-TERM) - Category 2
tris(2-chloro-1-methylethyl) phosphate	CAS: 13674-84-5	ACUTE TOXICITY (oral) - Category 4
	EC: 237-158-7	
triphenyl phosphate	CAS: 115-86-6	AQUATIC HAZARD (ACUTE) - Category 1
	EC: 204-112-2	AQUATIC HAZARD (LONG-TERM) - Category 1
Epoxy resin (MW ≤ 700)	CAS: 25068-38-6	SKIN IRRITATION - Category 2
	EC: 500-033-5	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
	EC: 232-355-4	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
	EC: 239-701-3	EYE IRRITATION - Category 2A
		SKIN SENSITIZATION - Category 1B
		CARCINOGENICITY - Category 2
		AQUATIC HAZARD (ACUTE) - Category 1
	0.00 0.1700 70 0	AQUATIC HAZARD (LONG-TERM) - Category 1
Quaternary ammonium compounds,	CAS: 61789-73-9	SKIN IRRITATION - Category 2
benzylbis(hydrogenated tallow alkyl)		
methyl, chlorides	FO 000 000 0	OFFICIAL EVE DAMA OF COLUMN A
	EC: 263-082-9	SERIOUS EYE DAMAGE - Category 1
		AQUATIC HAZARD (ACUTE) - Category 1
		AQUATIC HAZARD (LONG-TERM) - Category 1

Section 12. Ecological information

A. **Ecotoxicity**

Product/ingredient name	Result	Species	Exposure
rexaboron 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
4,4'-(1-methylethylidene) bisphenol polymer with (chloromethyl)oxirane	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

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Product name PITT-CHAR NX BASE WHITE

Section 12. Ecological information

Product/ingredient name	Test	Result	Dose	Inoculum
√,4'-(1-methylethylidene) bisphenol polymer with (chloromethyl)oxirane √,4'-(1-methyl)oxirane √,4'-(1-methyl)oxirane √,4'-(1-methyl)oxirane √,4'-(1-methyl)oxirane √,4'-(1-methylethylidene) √,4'-(1-methylethylethylidene) √,4'-(1-methylethylethylethylethylethylethylethyl	OECD 301F	5 % - 28 days	-	-
Epoxy resin (MW ≤ 700)	OECD 301F	5 % - 28 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
4,4'-(1-methylethylidene)	-	-	Not readily
bisphenol polymer with			
(chloromethyl)oxirane			
Epoxy resin (MW ≤ 700)	-	-	Not readily

C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
xexaboron dizinc undecaoxide	-	60960	High
4,4'-(1-methylethylidene) bisphenol polymer with (chloromethyl)oxirane	2.64 to 3.78	31	Low
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 coefficient (Koc)

: Not available.

E. Other adverse effects : 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.

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Product name PITT-CHAR NX BASE WHITE

Section 14. Transport information

	UN	IMDG	IATA
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.
	Mexaboron dizinc undecaoxide, reaction product: bisphenol-A-(epichlorhydrin); epoxy resin)	Mexaboron dizinc undecaoxide, reaction product: bisphenol-A-(epichlorhydrin); epoxy resin)	Mexaboron dizinc undecaoxide, reaction product: bisphenol-A-(epichlorhydrin); epoxy resin)
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

IATA

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.

: 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.

Transport in bulk according : Not applicable.

to IMO instruments

Section 15. Regulatory information

A. Regulation according to ISHA

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.

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Product name PITT-CHAR NX BASE WHITE

Section 15. Regulatory information

Article 2 of Youth Protection Act on Substances Hazardous : It is not allowed to sell to persons under the age of 19.

to Youth

Exposure Limits of Chemical Substances and Physical Factors

The following components have an OEL:

ISHA Enforcement Regs: None of the components are listed.

: None of the components are listed.

Annex 19 (Exposure standards established for harmful factors)

ISHA Enforcement Regs : None of the components are listed.

Annex 11-5 (Harmful factors subject to Work

Environment Measurement)

ISHA Enforcement Regs

Annex 22 (Harmful Factors Subject to Special Health Check-

up)

Standard of Industrial

Safety and Health Annex 12 (Hazardous substances subject to control)

: The following components are listed: zinc and its compounds

B. 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, 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

authorization (K-Reach

Article 25)

: None of the components are listed.

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

: None of the components are listed.

Article 39 (Accident Precaution Chemicals)

: All components are listed or exempted.

C. Dangerous Materials

: Not applicable.

Safety Management Act

D. Wastes regulation

: Dispose of contents and container in accordance with all local, regional, national and international regulations.

E. Regulation according to other foreign laws

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Product name PITT-CHAR NX BASE WHITE

Section 15. Regulatory information

Safety, health and environmental regulations specific for the product : No known specific national and/or regional regulations applicable to this product (including its ingredients).

Section 16. Other information

A. 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.

B. First issue date : 7/24/2019
C. Date of issue/Date of : 12/11/2024

revision

D. Version : 9
Prepared by : EHS

E. 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.

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