

Date of issue 8/18/2026 (month/day/year)

SDS Number: AA00147-9100000008

Version 2.11

Section 1. Chemical product and company identification

A. Product name : PITT-CHAR NX BASE WHITE
Product code : 000010025365

Other means of identification

00424804; 30014719 ; 30014720 ; 30014732 ; 30088024 ; 5P656-C3000/22.9K

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 : PPG SSC
(44714)
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 1B
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 : Danger

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. H360 - May damage 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	%
zinc borate	hexaboron dizinc undecaoxide	CAS: 12767-90-7	20 - <30
Borate(5-), bis[μ-oxotetraoxodiborato(4-)]-, ammonium tetrahydrogen, dihydrate, (T-4)-	ammonium pentaborate	EC: 235-804-2 CAS: 12046-04-7	20 - <30
4,4'-(1-methylethylidene)bisphenol polymer with (chloromethyl)oxirane	EPOXY RESIN	EC: 234-521-1 CAS: 25068-38-6	10 - <20
1-CHLORO-2-PROPANOL PHOSPHATE	TRI(2-PROPYL)PHOSPHATE	EC: 500-033-5 CAS: 13674-84-5	5 - <10
AMMONIUM POLYPHOSPHATE	AMMONIUM POLYPHOSPHATE	EC: 237-158-7 CAS: 68333-79-9	5 - <10
Triphenylphosphate	Triphenylphosphate	EC: 269-789-9 CAS: 115-86-6 EC: 204-112-2	5 - <10

Section 3. Composition/information on ingredients

Epoxy resin (MW ≤ 700)	EPOXY RESIN (AVERAGE MOLECULAR WT < 700)	CAS: 25068-38-6 EC: 500-033-5	1 - <5
Cashew, nutshell liq.; Oil of cashew nutshell -	CASHEW NUTSHELL LIQUID	CAS: 8007-24-7 EC: 700-991-6	1 - <5
2-propenoic acid 2-ethyl-2-[[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester	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 EC: 263-082-9	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

- 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.
- B. 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. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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.

B. 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
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.

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. 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

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

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.

- B. Appropriate engineering controls** : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

C. Personal protective equipment

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 explosive (flammable) limits : Not available.

K. Vapor pressure :

Section 9. Physical and chemical properties

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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

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
zinc borate	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours
Borate(5-), bis[μ-oxotetraoxodiborato (4-)]-, ammonium tetrahydrogen, dihydrate, (T-4)-	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
	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	-
1-CHLORO-2-PROPANOL PHOSPHATE	LD50 Oral	Rat	>2 g/kg	-
	LC50 Inhalation Dusts and mists	Rat	>7 mg/l	4 hours
AMMONIUM POLYPHOSPHATE Triphenylphosphate	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	1500 mg/kg	-
	LD50 Oral	Rat	4.74 g/kg	-
	LD50 Dermal	Rabbit	>7900 mg/kg	-
Epoxy resin (MW ≤ 700)	LD50 Oral	Rat	3500 mg/kg	-
	LD50 Dermal	Rabbit	>2 g/kg	-
	LD50 Oral	Rat	>2 g/kg	-

Section 11. Toxicological information

2-propenoic acid 2-ethyl-2-[[[1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester	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
zinc borate	Eyes - Cornea opacity	Rabbit	33	24 hours	74 hours
4,4'-(1-methylethylidene) bisphenol polymer with (chloromethyl)oxirane	Eyes - Mild irritant	Rabbit	-	0.083g 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	-	-	-
2-propenoic acid 2-ethyl-2-[[[1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester	Skin - Mild irritant	Rabbit	-	-	-
	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
4,4'-(1-methylethylidene) bisphenol polymer with (chloromethyl)oxirane	skin	Mouse	Sensitizing
Epoxy resin (MW ≤ 700)	skin	Mouse	Sensitizing
2-propenoic acid 2-ethyl-2-[[[1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester	skin	Rabbit	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

Section 11. Toxicological information

Product/ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure
zinc borate	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)

Name	Classification	Route of exposure	Target organs
Cashew, nutshell liq.; Oil of cashew nutshell -	Category 2	-	-

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** : May damage 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
zinc borate	CAS: 12767-90-7 EC: 235-804-2	EYE IRRITATION - Category 2A TOXIC TO REPRODUCTION - Category 1B AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 TOXIC TO REPRODUCTION - Category 2
Borate(5-), bis[μ-oxotetraoxodiborato(4-)]-, ammonium tetrahydrogen, dihydrate, (T-4)-	CAS: 12046-04-7 EC: 234-521-1 CAS: 25068-38-6	SKIN IRRITATION - Category 2

Section 11. Toxicological information

polymer with (chloromethyl)oxirane	EC: 500-033-5	EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2 ACUTE TOXICITY (oral) - Category 4
1-CHLORO-2-PROPANOL PHOSPHATE	CAS: 13674-84-5 EC: 237-158-7	ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 AQUATIC HAZARD (LONG-TERM) - Category 3 EYE IRRITATION - Category 2A
AMMONIUM POLYPHOSPHATE	CAS: 68333-79-9 EC: 269-789-9	AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1B AQUATIC HAZARD (LONG-TERM) - Category 2 SKIN IRRITATION - Category 2
Triphenylphosphate	CAS: 115-86-6 EC: 204-112-2	
Epoxy resin (MW ≤ 700)	CAS: 25068-38-6 EC: 500-033-5	
Cashew, nutshell liq.; Oil of cashew nutshell -	CAS: 8007-24-7 EC: 700-991-6	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 AQUATIC HAZARD (ACUTE) - Category 1 SKIN IRRITATION - Category 2
2-propenoic acid 2-ethyl-2-[[[(1-oxo- 2-propenyl)oxy]methyl]-1,3-propanediyl ester	CAS: 15625-89-5 EC: 239-701-3	EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 3 SKIN IRRITATION - Category 2
Quaternary ammonium compounds, benzylbis(hydrogenated tallow alkyl) methyl, chlorides	CAS: 61789-73-9 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
zinc borate	Acute EC50 76 mg/l Acute LC50 2.17 mg/l Acute LC50 >100 mg/l	Daphnia - <i>Daphnia magna</i> Fish - <i>Salmo gairdneri</i> Fish	48 hours 96 hours 96 hours
Borate(5-), bis[μ-oxotetraoxodiborato(4-)]-, ammonium tetrahydrogen, dihydrate, (T-4)-4,4'-(1-methylethylidene) bisphenol polymer with (chloromethyl)oxirane	Chronic NOEC 0.3 mg/l	Daphnia	21 days
AMMONIUM POLYPHOSPHATE	Acute EC50 730.5 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
Triphenylphosphate	Acute LC50 0.09 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Chronic NOEC 0.1 mg/l	Algae - <i>Desmodesmus</i>	3 days

Section 12. Ecological information

Epoxy resin (MW ≤ 700)	Acute LC50 1.8 mg/l Chronic NOEC 0.3 mg/l	<i>subspicatus</i> Daphnia Daphnia Fish	48 hours 21 days 96 hours
2-propenoic acid 2-ethyl-2-[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester	Acute LC50 0.87 mg/l		

B. Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
4,4'-(1-methylethylidene)bisphenol polymer with (chloromethyl)oxirane	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)bisphenol polymer with (chloromethyl)oxirane	-	-	Not readily	
Epoxy resin (MW ≤ 700)	-	-	Not readily	

C. Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
zinc borate	-	60960	High
4,4'-(1-methylethylidene)bisphenol polymer with (chloromethyl)oxirane	2.64 to 3.78	31	Low
1-CHLORO-2-PROPANOL PHOSPHATE	2.68	7.94 [OECD 305 C]	Low
Triphenylphosphate	4.63	190.55	Low
Epoxy resin (MW ≤ 700)	3	31	Low
Cashew, nutshell liq.; Oil of cashew nutshell -	>4.78	-	High
2-propenoic acid 2-ethyl-2-[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester	0.67	-	Low

D. Mobility in soil

Soil/Water partition coefficient : 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.

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. (PAINT)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PAINT)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PAINT)
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.
- IATA** : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

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 to IMO instruments : Not applicable.

Section 15. Regulatory information

A. Regulation according to ISHA

ISHA article 117 : None of the components are listed.

(Harmful substances
prohibited from
manufacture)

ISHA article 118 : None of the components are listed.

(Harmful substances
requiring permission)

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

Act on Substances Hazardous
to Youth

Exposure Limits of Chemical Substances and Physical Factors

The following components have an OEL:

zinc borate

Borate(5-), bis[μ-oxotetraoxodiborato(4-)]-, ammonium tetrahydrogen, dihydrate, (T-4)-
Triphenylphosphate

ISHA Enforcement Regs : 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 : None of the components are listed.

Annex 22 (Harmful
Factors Subject to
Special Health Check-
up)

Standard of Industrial : The following components are listed: zinc and its compounds

Safety and Health

Annex 12 (Hazardous
substances subject to
control)

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- : None of the components are listed.

Reach Article 27)

Article 19 Candidate : None of the components are listed.

substances subject to
authorization (K-Reach
Article 25)

Article 19 Subject to : None of the components are listed.

authorization (K-Reach
Article 25)

Section 15. Regulatory information

Article 20 Restricted (K-Reach Article 27) : None of the components are listed.

Korea inventory : All components are listed or exempted.

Article 39 (Accident Precaution Chemicals) : None of the components are listed.

Substances Harmful to Human Health Acute/Chronic and Ecologically Hazardous Substances (K-REACH Article 20)

Ingredient name	Acute human toxicity	Chronic human toxicity	Ecotoxicity	Reference number
zinc borate	Not applicable	Applicable	Not applicable	97-1-91 2

Existing Chemical Substances Subject to Registration : The following components are listed: 4,4'-(1-Methylethylidene)bisphenol polymer with (chloromethyl)oxirane, Triphenyl phosphate, Methyl oxirane

C. Regulations under the Act on Registration and Evaluation of Chemical Substances

No unconfirmed hazards apply.

D. Dangerous Materials Safety Management Act : Not applicable.

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

F. 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

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 : 4/24/2025

C. Date of issue/Date of revision : 8/18/2026

D. Version : 2.11

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.