SAFETY DATA SHEET



Date of issue 3/4/2022 (month/day/year)

Version 12

Section 1. Chemical product and company identification

A. Product name	: AMERCOAT 385 BASE RAL 9010
Product code	: 00330875

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

P	Product use	:	Professional applications, Used by spraying.
	Jse of the substance/ nixture	:	Coating.
U	Jses advised against	:	Product is not intended, labelled or packaged for consumer use.
i	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
	Email Address		Korea.MSDS@PPG.COM
	Emergency telephone number:	:	+82-52-210-8222

Section 2. Hazards identification

A. Hazard classification	: FLAMMABLE LIQUIDS - Category 3
	SKIN IRRITATION - Category 2
	EYE IRRITATION - Category 2A
	SKIN SENSITIZATION - Category 1
	CARCINOGENICITY - Category 2
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
	AQUATIC HAZARD (LONG-TERM) - Category 2

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

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Section 2. Hazards identification

Hazard statements	 H226 - Flammable liquid and vapor. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H351 - Suspected of causing cancer. H372 - Causes damage to organs through prolonged or repeated exposure. (cent nervous system (CNS), kidneys, liver) H411 - Toxic to aquatic life with long lasting effects.
Precautionary statements	
Prevention	 202 - Do not handle until all safety precautions have been read and understood. P280 - Wear protective gloves, protective clothing and eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignitior sources. No smoking. P241 - Use explosion-proof electrical, ventilating or lighting equipment. P242 - Use non-sparking tools. P243 - Take action to prevent static discharges. P273 - Avoid release to the environment. P260 - Do not breathe vapor. P270 - Do not eat, drink or smoke when using this product. P264 - Wash thoroughly after handling.
Response	 P391 - Collect spillage. P308 + P313 - IF exposed or concerned: Get medical advice or attention. P362 + P364 - Take off contaminated clothing and wash it before reuse. P302 + P352 - IF ON SKIN: Wash with plenty of water. P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minute Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.
Storage	P403 + P235 - Store in a well-ventilated place. Keep cool.
Disposal	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Other hazards which do not result in classification	Prolonged or repeated contact may dry skin and cause irritation.

Section 3. Composition/information on ingredients

CAS number/other identifiers

CAS number : Not applicable.

Chemical name	Common name	Identifiers	%
Peaction product: bisphenol-A-	EPOXY RESIN	CAS: 25068-38-6	30 -
(epichlorhydrin); epoxy resin			<40
titanium dioxide	TITANIUM DIOXIDE	CAS: 13463-67-7	20 -
			<30
Xylene	XYLENES	CAS: 1330-20-7	10 -<20
Talc , not containing asbestiform fibres	Talc, non-asbestos form	CAS: 14807-96-6	5 - <10
2-butoxyethanol	2-BUTOXY ETHANOL	CAS: 111-76-2	5 - <10
ethylbenzene	ETHYLBENZENE	CAS: 100-41-4	1 - <5
aluminium hydroxide	ALUMINUM HYDROXIDE	CAS: 21645-51-2	1 - <5
4-methylpentan-2-one	4-METHYLPENTAN-2-ONE / METHYL	CAS: 108-10-1	0.1 - <1
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Section 3. Composition/information on ingredients

ISOBUTYL KETONE

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.
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	;	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

Α.	A. <u>Extinguishing media</u>			
	Suitable extinguishing media	1	Use dry chemical, CO ₂ , water spray (fog) or foam.	
	Unsuitable extinguishing media	:	Do not use water jet.	
В.	Specific hazards arising from the chemical	:	Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is 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 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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

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. Shut off all ignition sources. No flares, smoking or flames in hazard area. 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. Use spark-proof tools and explosion-proof equipment. 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. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non- combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.		

Section 7. Handling and storage

	Precautions for safe handling	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
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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 a segregated and approved area. 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. Eliminate all ignition sources. Separate from oxidizing materials. 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
itanium dioxide	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	TWA: 10 mg/m ³ 8 hours. Form: total dus
	with less than 1% of free SiO2
Xylene	Ministry of Employment and Labor
,	(Republic of Korea, 1/2020).
	STEL: 150 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
Talc , not containing asbestiform fibres	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	TWA: 2 mg/m ³ 8 hours. Form: fibers
2-butoxyethanol	Ministry of Employment and Labor
	(Republic of Korea, 1/2020). Absorbed
	through skin.
	TWA: 20 ppm 8 hours.
ethylbenzene	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	STEL: 125 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
aluminium hydroxide	ACGIH TLV (United States, 1/2021).
	TWA: 1 mg/m ³ 8 hours. Form: Respirabl
	fraction
	ACGIH TLV (United States).
	TWA: 1 mg/m ³
4-methylpentan-2-one	Ministry of Employment and Labor
-methypentan-z-one	(Republic of Korea, 1/2020).
	STEL: 75 ppm 15 minutes.
	TWA: 50 ppm 8 hours.

ring procedures int this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. 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.

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Section 8. Exposure controls/personal protection

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B.	Appropriate engineering controls	:	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
	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.
С.	Personal protective equip	me	ent
	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	1	butyl rubber
	Body protection	۰.	Personal protective equipment for the body should be selected based on the task

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. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

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.	Ар	bear	an	ce	
		_			

	Physical state	1	Liquid.
	Color	:	White.
В.	Odor	:	Aromatic.
C .	Odor threshold	:	Not available.
D.	рН	:	Not applicable.
Е.	Melting/freezing point	:	Not available.
F.	Boiling point/boiling range	:	>37.78°C (>100°F)

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Section 9. Physical and chemical properties

: Not available.

G. Flash point

: Closed cup: 34.5°C (94.1°F)

- H. Evaporation rate
- I. Flammability (solid, gas) : Not available.
- J. Lower and upper explosive (flammable) limits
- K. Vapor pressure

	Vapo	Vapor Pressure at 20°C			Vapor pressure at 50°C			
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method		
ethylbenzene	9.3	1.2						
Insoluble in the follo	wing mate	rials: co	ld water.					
Not available.								
Not available.								
1 15								
1.40								
Not applicable.								
1.45 Not applicable.		°C	°F		Method			

- L. Solubility Solubility in water
- M. Vapor density

P. Auto-ignition temperature

- N. Relative density
- O. Partition coefficient: noctanol/water

:	Ingredient name	°C	°F	Method
	<mark>2-</mark> butoxyethanol	230	446	DIN 51794

- **Q.** Decomposition temperature
- **R. Viscosity** Flow time (ISO 2431)
- : Not available.
- S. Molecular weight : 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 halogenated compounds metal oxide/oxides

: Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)

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Section 11. Toxicological information

Α.	Information on the likely	: Not available.
	routes of exposure	

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. Defatting to the skin. May cause an allergic skin reaction.
 - Eye contact
- : Causes serious eye irritation.

Over-exposure signs/symptoms

Inhalation	: No specific data.
Ingestion	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
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
eaction product: bisphenol-A- (epichlorhydrin); epoxy resin	LD50 Dermal	Rabbit	>2 g/kg	-
	LD50 Oral	Rat	>2 g/kg	-
titanium dioxide	LC50 Inhalation Dusts and mists	Rat	>6.82 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
-	LD50 Oral	Rat	4.3 g/kg	-
2-butoxyethanol	LD50 Dermal	Rat	>2000 mg/kg	-
-	LD50 Oral	Rat	1200 mg/kg	-
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
aluminium hydroxide	LC50 Inhalation Dusts and mists	Rat	>5.09 mg/l	4 hours
	LD50 Oral	Rat	>5000 mg/kg	-
4-methylpentan-2-one	LC50 Inhalation Vapor	Rat	12.3 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	2.08 g/kg	-

Conclusion/Summary

: There are no data available on the mixture itself.

Irritation/Corrosion

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Section 11. Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin	Skin - Moderate irritant	Rabbit	-	-	-
	Eyes - Moderate irritant	Rabbit	-	-	-
	Eyes - Mild irritant	Rabbit	-	100 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				UI	
	Skin - Severe irritant	Rabbit	-	24 hours 2 mg	-
Xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
2-butoxyethanol	Skin - Moderate irritant	Rabbit	-	4 hours	28 days
	Eyes - Irritant	Rabbit	-	24 hours	21 days

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
reaction product: bisphenol- A-(epichlorhydrin); epoxy resin	skin	Mouse	Sensitizing
Conclusion/Summary			
Skin :	There are no data a	available on the mixture itself.	
Respiratory :	There are no data a	available on the mixture itself.	
<u>Mutagenicity</u> Conclusion/Summary :	There are no data	available on the mixture itself.	
<u>Carcinogenicity</u> Conclusion/Summary :	There are no data	available on the mixture itself.	
Reproductive toxicity Conclusion/Summary :	There are no data	available on the mixture itself.	
<u>Teratogenicity</u> Conclusion/Summary :	There are no data	available on the mixture itself.	

Specific target organ toxicity (single exposure)

Name	Classification	Route of exposure	Target organs
Kylene Talc , not containing asbestiform fibres	Category 3 Category 3	-	Narcotic effects Respiratory tract irritation
4-methylpentan-2-one	Category 3		Respiratory tract irritation

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Section 11. Toxicological information

Specific target organ toxicity (repeated exposure)

Name	Classification	Route of exposure	Target organs
Xylene	Category 1		central nervous system (CNS), kidneys, liver

Aspiration hazard

Name	Result
ethylbenzene	ASPIRATION HAZARD - Category 1

Potential chronic health effects

General	: Causes damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. 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 Reproductive toxicity	 No known significant effects or critical hazards. No known significant effects or critical hazards.

Additional information

Prolonged or repeated contact may dry skin and cause irritation. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing.

Chemical name	Identifiers	GHS Classification
eaction product: bisphenol-A- (epichlorhydrin); epoxy resin	CAS: 25068-38-6	SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		SKIN SENSITIZATION - Category 1B
		AQUATIC HAZARD (LONG-TERM) - Category 2
titanium dioxide	CAS: 13463-67-7	CARCINOGENICITY - Category 2
Xylene	CAS: 1330-20-7	FLAMMABLE LIQUIDS - Category 3
		ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4
		SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE
		EXPOSURE) (Narcotic effects) - Category 3
		SPECIFIC TARGET ORGAN TOXICITY
		(REPEATED EXPOSURE) - Category 1
Talc , not containing asbestiform fibres	CAS: 14807-96-6	SPECIFIC TARGET ORGAN TOXICITY (SINGLE
		EXPOSURE) (Respiratory tract irritation) -
	040 444 70 0	Category 3
2-butoxyethanol	CAS: 111-76-2	FLAMMABLE LIQUIDS - Category 4
		ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 4
		SKIN IRRITATION - Category 2
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Section 11. Toxicological information

ethylbenzene	CAS: 100-41-4	EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2 FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 2 ASPIRATION HAZARD - Category 1
aluminium hydroxide 4-methylpentan-2-one	CAS: 21645-51-2 CAS: 108-10-1	AQUATIC HAZARD (LONG-TERM) - Category 3 Not classified. FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 SERIOUS EYE DAMAGE - Category 1 CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

Section 12. Ecological information

A. Ecotoxicity

Product/ingredient name	Result	Species	Exposure
eaction product: bisphenol- A-(epichlorhydrin); epoxy resin	Chronic NOEC 0.3 mg/l	Daphnia	21 days
titanium dioxide 2-butoxyethanol	Acute LC50 >100 mg/l Fresh water Acute LC50 1474 mg/l Chronic NOEC >100 mg/l	Daphnia - Daphnia magna Fish Fish	48 hours 96 hours 21 days
ethylbenzene 4-methylpentan-2-one	Acute EC50 1.8 mg/l Fresh water Chronic NOEC 1 mg/l Fresh water Acute LC50 >179 mg/l	Daphnia Daphnia - Ceriodaphnia dubia Fish	48 hours - 96 hours

B. Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
Peaction product: bisphenol- A-(epichlorhydrin); epoxy resin	OECD 301F	5 % - 28 d	ays	-		-
ethylbenzene	-	79 % - Rea	adily - 10 days	-		-
4-methylpentan-2-one	OECD 301F	83 % - Rea	adily - 28 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
A-(epichlorhydrin); epoxy resin	-		-		Not rea	dily
Xylene	-		-		Readily	
2-butoxyethanol	-		-		Readily	
ethylbenzene	-		-		Readily	
4-methylpentan-2-one	-		-		Readily	

C. Bioaccumulative potential

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Section 12. Ecological information

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Product/ingredient name	LogPow	BCF	Potential
reaction product: bisphenol- A-(epichlorhydrin); epoxy resin	2.64 to 3.78	31	low
Xylene 2-butoxyethanol ethylbenzene 4-methylpentan-2-one	3.12 0.81 3.6 1.9	7.4 to 18.5 - 79.43 -	low low low 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.

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.
			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. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. 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	UN1263	UN1263	UN1263
B. UN proper shipping name	PAINT	PAINT	PAINT
C. Transport hazard class(es)	3	3	3
D. Packing group	III	III	III
Environmental hazards	Yes. The environmentally hazardous substance mark is not required.	Yes.	Yes. The environmentally hazardous substance mark is not required.
E. Marine pollutant substances	Not applicable.	(reaction product: bisphenol-A- (epichlorhydrin); epoxy resin)	Not applicable.
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Section 14. Transport information

Additional information

Measurement)

UN	: None identified.
IMDG	: The marine pollutant mark is not required when transported in sizes of \leq 5 L or \leq 5 kg.
IATA	: The environmentally hazardous substance mark may appear if required by other transportation regulations.

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** : 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: titanium dioxide **Xylene** Talc, not containing asbestiform fibres 2-butoxyethanol ethylbenzene aluminium hydroxide 4-methylpentan-2-one ISHA Enforcement Regs : None of the components are listed. Annex 19 (Exposure standards established for harmful factors) **ISHA Enforcement Regs** ÷ The following components are listed: titanium dioxide, xylene, talc / soapstone, Annex 21 (Harmful 2-butoxyethanol / EGBE, ethyl benzene, aluminum and its compounds factors subject to Work **Environment**

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Section 15. Regulatory information

S	Section 16. Other 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).				
Е.	Regulation according to other foreign laws						
D.	Wastes regulation	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.				
υ.	Safety Management Act	•	Item: 4. Class 2 petroleums - Water-insoluble liquid Threshold: 1000 L Danger category: III Signal word: Contact with sources of ignition prohibited				
C	Chemicals) Dangerous Materials		Class: Class 4 - Flammable Liquid				
	CCA Article 39 (Accident Precaution	:	None of the components are listed.				
	Korea inventory	1	All components are listed or exempted.				
	Article 20 Toxic Chemicals (K-Reach Article 20)	-	Not applicable				
	Article 20 Restricted (K- Reach Article 27)	1	None of the components are listed.				
	Article 19 Subject to authorization (K-Reach Article 25)	-	None of the components are listed.				
	Article 18 Prohibited (K- Reach Article 27)	1	None of the components are listed.				
	CCA Article 11 (TRI)	:	The following components are listed: 4,4'-(1-Methylethylidene) bisphenol polymer with (chloromethyl)oxirane, Xylene including o-,m-,p- isomer, Ethylbenzene, Aluminium and its compounds				
В.	Regulation according to Chemicals Control Act						
	Standard of Industrial Safety and Health Annex 12 (Hazardous substances subject to control)	:	The following components are listed: titanium dioxide, xylene, 2-butoxyethanol, ethyl benzene, aluminum and its compounds				
	ISHA Enforcement Regs Annex 22 (Harmful Factors Subject to Special Health Check- up)	:	The following components are listed: Xylene, 2-Butoxyethanol, Ethyl benzene, Aluminum and its compounds				

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.

Section 16. Other information

В.	Date of issue/Date of revision	:	3/4/2022
C .	Version	:	12
	Prepared by	:	EHS

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.