SAFETY DATA SHEET



Date of issue 8/13/2024 (month/day/year)

Version 8.02

Section 1. Chemical product and company identification

 A. Product name
 : SIGMACOVER 256S BASE BASE Z

 Product code
 : 00379466

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

	Product use Use of the substance/ mixture		Professional applications, Used by spraying. 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	: FLAMMABLE LIQUIDS - Category 3
	SKIN IRRITATION - Category 2
	EYE IRRITATION - Category 2A
	SKIN SENSITIZATION - Category 1
	CARCINOGENICITY - Category 1A
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
	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

Hazaro	d statements	:	 H226 - Flammable liquid and vapor. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H350 - May cause cancer. H373 - May cause damage to organs through prolonged or repeated exposure. (central nervous system (CNS), kidneys, liver) H411 - Toxic to aquatic life with long lasting effects.
Preca	utionary statements	5	
Prevo	ention	:	 P202 - 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 ignition 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. P264 - Wash thoroughly after handling.
Resp	onse	:	 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 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.
Stora	ige	:	P403 + P235 - Store in a well-ventilated place. Keep cool.
Disp	-	:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
C. Other not re	hazards which do sult in	:	Prolonged or repeated contact may dry skin and cause irritation.

classification

Section 3. Composition/information on ingredients

CAS number/other identifiers

CAS number

: Not applicable.

Chemical name	Common name	Identifiers	%
Epoxy Resin	EPOXY RESIN	CAS: SUB110652	20 - <30
crystalline silica, respirable powder (<10 microns)	QUARTZ (<10 microns)	CAS: 14808-60-7	10 -<20
trizinc bis(orthophosphate)	ZINC ORTHOPHOSPHATE	CAS: 7779-90-0	5 - <10
Xylene	XYLENES	CAS: 1330-20-7	5 - <10
Talc , not containing asbestiform fibres	Talc, non-asbestos form	CAS: 14807-96-6	5 - <10
Epoxy resin (MW \leq 700)	EPOXY RESIN (AVERAGE MOLECULAR WT < 700)	CAS: 25068-38-6	5 - <10
Solvent naphtha (petroleum), light aromatic	SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC	CAS: 64742-95-6	5 - <10
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Section 3. Composition/information on ingredients

1,2,4-trimethylbenzene	1,2,4-TRIMETHYL BENZENE	CAS: 95-63-6	1 - <5
ethylbenzene	ETHYLBENZENE	CAS: 100-41-4	1 - <5
2-methylpropan-1-ol	ISOBUTYL ALCOHOL	CAS: 78-83-1	1 - <5
cumene	CUMENE	CAS: 98-82-8	0.1 - <1
cadmium	CADMIUM	CAS: 7440-43-9	<0.1

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Α.	Eye contact	:	Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
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	1	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

Α.	Extinguishing media		
	Suitable extinguishing media	1	Use dry chemical, CO_2 , water spray (fog) or foam.
	Unsuitable extinguishing media	1	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.

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Section 5. Fire-fighting measures

	Hazardous thermal decomposition products	:	Decomposition products may include the following materials: carbon oxides sulfur oxides phosphorus oxides halogenated compounds metal oxide/oxides
c	Special equipment for		Fire-fighters should wear appropriate protective equipment and self-contain

- C. Special equipment for fire-fighting
 Fire-fighting procedures
 Fire-fighting procedures
 Fire-fighting procedures
 - there is a fire. No action shall be taken involving an 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.
P. Environmentel		Avoid diapareal of anillad material and rupoff and contact with apil, waterwaya

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
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Section 7. Handling and storage

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.

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
erystalline silica, respirable powder (<10 microns)	Ministry of Employment and Labor (Republic of Korea, 1/2020). TWA: 0.05 mg/m ³ 8 hours. Form: Respirable fraction
Xylene	Ministry of Employment and Labor (Republic of Korea, 1/2020). [Xylene] 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
1,2,4-trimethylbenzene	Ministry of Employment and Labor (Republic of Korea, 1/2020). [Trimethyl benzene]
ethylbenzene	TWA: 25 ppm 8 hours. Ministry of Employment and Labor (Republic of Korea, 1/2020). STEL: 125 ppm 15 minutes. TWA: 100 ppm 8 hours.
2-methylpropan-1-ol	Ministry of Employment and Labor (Republic of Korea, 1/2020). TWA: 50 ppm 8 hours.
cumene	Ministry of Employment and Labor (Republic of Korea, 1/2020). Absorbed through skin. TWA: 50 ppm 8 hours.
cadmium	Ministry of Employment and Labor (Republic of Korea, 1/2020). [Cadmium and compounds] TWA: 0.01 mg/m ³ , (as Cd) 8 hours. Form: Respirable dust
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Section 8. Exposure controls/personal protection

			TWA: 0.002 mg/m³, (as Cd) 8 hours. Form: Respirable fraction
	Recommended monitoring procedures	:	Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
В.	Appropriate engineering controls	:	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.
C .	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	4	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	:	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.

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Section 9. Physical and chemical properties

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

mm Hg

<12.00102 <1.6

Result

Not soluble

kPa

Method

DIN EN 13016-2

Evaporation rate Flammability (solid, gas) Lower and upper explosive (flammable) limits		e: Lower: 1.7% Upper: 10.9% (2	2-methylpropan-1-ol)
Flammability (solid, gas)	: Not available.		
· · · · · · · · · · · · · · · · · · ·			
Evaporation rate	i not avallable.		
Flash point	: Closed cup: 32°C (89	0.6°F)	
•••	: >37.78°C (>100°F)		
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· · · · · · · · · · · · · · · · · · ·			
Color	: Not available.		
Physical state	: Liquid.		
Appearance			
	Physical state Color Odor Odor threshold pH Melting/freezing point Boiling point/boiling range Flash point	Physical state: Liquid.Color: Not available.Odor: Characteristic.Odor threshold: Not available.pH: Not applicable.Melting/freezing point: Not available.Boiling point/boiling: >37.78°C (>100°F)range: Closed cup: 32°C (89)	Physical state: Liquid.Color: Not available.Odor: Characteristic.Odor threshold: Not available.pH: Not applicable.Melting/freezing point: Not available.Boiling point/boiling: >37.78°C (>100°F)range: Closed cup: 32°C (89.6°F)

L. So	lubility	(ies)
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Solubility in water

- Vapor density Μ.
- **Relative density** N.
- Partition coefficient: n-
- О. octanol/water

Auto-ignition Ρ. temperature

Ingredient name	°C	°F	Method
Solvent naphtha (petroleum), light aromatic	280 to 470	536 to 878	

Decomposition Q. temperature

Ingredient name

2-methylpropan-1-ol

Media

cold water

: Not available.

Not available.

: Not applicable.

t

20

2

: 1.34

- Viscosity R.
- : Not available.
- Molecular weight S.

Flow time (ISO 2431)

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

: Not available.

: Not applicable.

Vapor pressure at 50°C

Method

kPa

mm Hg

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Section 10. Stability and reactivity

Α.	Chemical stability	:	The product is stable.
	Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
в.	Conditions to avoid	:	When exposed to high temperatures may produce hazardous decomposition products.
C.	Incompatible materials	:	Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
D.	Hazardous decomposition products	:	Depending on conditions, decomposition products may include the following materials: carbon oxides sulfur oxides phosphorus oxides halogenated compounds metal oxide/oxides

Section 11. Toxicological information

Α.	Information on the likel routes of exposure	y : Not available.
P	otential acute health effe	ects
	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.
<u>C</u>	ver-exposure signs/sym	<u>ptoms</u>
	Inhalation	No specific data.

Innalatio		۰.	No specific data.
Ingestion	1	:	No specific data.
Skin con	tact	:	Adverse symptoms may include the following: irritation redness dryness cracking
Eye cont	act	:	Adverse symptoms may include the following: pain or irritation watering redness

B. Health hazards

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
rzinc bis(orthophosphate)	LC50 Inhalation Dusts and	Rat	>5.7 mg/l	4 hours
	mists LD50 Oral	Rat	>5000 mg/kg	-
Xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
Epoxy resin (MW \leq 700)	LD50 Dermal	Rabbit	>2 g/kg	-
	LD50 Oral	Rat	>2 g/kg	-
Solvent naphtha (petroleum), light aromatic	LD50 Dermal	Rabbit	3.48 g/kg	-
	LD50 Oral	Rat	8400 mg/kg	-
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Section 11. Toxicological information

1,2,4-trimethylbenzene	LC50 Inhalation Vapor	Rat	18000 mg/m ³	4 hours
	LD50 Oral	Rat	5 g/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	-
2-methylpropan-1-ol	LC50 Inhalation Vapor	Rat	24.6 mg/l	4 hours
	LD50 Dermal	Rabbit	2460 mg/kg	-
	LD50 Oral	Rat	2830 mg/kg	-
cumene	LC50 Inhalation Vapor	Rat	39000 mg/m ³	4 hours
	LD50 Dermal	Rabbit	12.3 g/kg	-
	LD50 Oral	Rat	2260 mg/kg	-
cadmium	LD50 Oral	Rat	0.225 g/kg	-

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

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Epoxy resin (MW ≤ 700)	Eyes - Mild irritant Skin - Mild irritant	Rabbit Rabbit	-	-	-

Conclusion/Summar	Υ
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			
Epoxy resin (MW ≤ 700)	skin	Mouse	Sensitizing			
Conclusion/Summary		<u>+</u>	•			
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.				
Carcinogenicity Conclusion/Summary :	There are no data	available on the mixture itself.				
Reproductive toxicity Conclusion/Summary	There are no data	a available on the mixture itself.				
<u>Teratogenicity</u> Conclusion/Summary	There are no data	a available on the mixture itself.				
Specific target organ toxicity (single exposure)						

Section 11. Toxicological information

Name	Classification	Route of exposure	Target organs
Xylene	Category 3	-	Narcotic effects
Talc , not containing asbestiform fibres	Category 3	-	Respiratory tract irritation
Solvent naphtha (petroleum), light aromatic	Category 3	-	Narcotic effects
1,2,4-trimethylbenzene	Category 3	-	Respiratory tract irritation
2-methylpropan-1-ol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects

Specific target organ toxicity (repeated exposure)

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

Aspiration hazard

Name	Result
ethylbenzene	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 2

Potential chronic health effects

General	: May cause 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 Mutagenicity Reproductive toxicity	 May cause cancer. Risk of cancer depends on duration and level of exposure. 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. Sanding and grinding dusts may be harmful if inhaled. 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.

Section 11. Toxicological information

Epoxy Resin CAS: SUB110652 SKIN IRRITATION - Category 2 EVE (RRITATION - Category 2) SKIN SENSITIZATION - Category 18 CARCINOGENICITY - Category 14 CARCINOGENICITY - Category 14 CARCINOGENICITY - Category 14 CARCINOGENICITY - Category 14 ADUATIC HAZARD (ACUTE) - Category 1 ADUATIC HAZARD (ACUTE) - Category 1 ADUATIC HAZARD (ACUTE) - Category 1 CAS: 1330-20-7 Xylene CAS: 1330-20-7 ADUATIC HAZARD (ACUTE) - Category 2 EVE (RRITATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Acutegory 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Category 3 SINI IRRITATION - Category 2 EVE (RRITATION - Category 2 SINI IRRITATION - Category 2 SINI IRRITATION - Category 2 SINI IRRITATION - Category 2 SINI IRRITATION - Category 3 SKIN IRRITATION - Category 3 ADUATIC HAZARD (LONG-TERM) - Category 3 ADUATIC HAZARD (LONG-TERM) - Category 4 SKIN IRRITATION - Category 2 EVE (RRITATION - Category 2 SIN INRITATION - Category 2 SIN INRITATION - Categ	Chemical name	Identifiers	GHS Classification
erystalline silica, respirable powder (<10 microns) trizinc bis(orthophosphate) Xylene CAS: 1330-20-7 Tel.AMMABLE LQUIDS - Category 1 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2 EVE IRRITATION - Category 2 EVE IRRITATION - Category 2 EVE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Marcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Marcotic effects) - Category 1 (REPEATED EXPOSURE) - Category 1 CAS: 14807-96-6 SINI IRRITATION - Category 2 EVE IRRITATION - Category 2 EVE IRRITATION - Category 2 EVE IRRITATION - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Marcotic effects) - Category 1 (REPEATED EXPOSURE) (Category 1 CAS: 25068-38-6 SINI IRRITATION - Category 2 EVE IRRITATION - Category 2 EVE IRRITATION - Category 3 Solvent naphtha (petroleum), light aromatic 1,2,4-trimethylbenzene CAS: 95-63-6 ethylbenzene CAS: 100-41-4 ethylbenzene CAS: 100-41-4 CAS: 78-83-1 CAS: 78-83-1 CAS: 98-82-8 EVE IRRITATION - Category 2 SINI IRRITATION - Category 2 SINI IRRITATION - Category 2 SINI IRRITATION - Category 3 ACUTE TOXICITY (Inhalation) - Category 4 SINI IRRITATION - Category 2 SECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 ACUTE TOXICITY (Inhalation) - Category 4 SINI IRRITATION - Category 2 ACUTE TOXICITY (Inhalation) - Category 2 ACUTE TOXICITY (Inhalation) - Category 2 ACUTE TOXICITY (Inhalation) - Category 2 SERIONO HAZARD - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2 ACUTE TOXICITY (Inhalation) - Category 3 SINI IRRITATION - Category 2 SERIONO HAZARD - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respirat	Zpoxy Resin	CAS: SUB110652	EYE IRRITATION - Category 2A
trizinc bis(orthophosphate) Xylene Xylene CAS: 7779-90-0 AQUATIC HAZARD (LONG-TERM) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 4 ACUTE TOXICITY (demail) - Category 2 EYE IRRITATION - Category 2 EYE IRRITATION - Category 2 EYE IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narotic effects) - Category 1 (REPEATED EXPOSURE) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narotic effects) - Category 1 Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Category 2 EYE IRRITATION - Category 2A SKIN IRRITATION - Category 2A SKIN IRRITATION - Category 2A SKIN SENSITIZATION - Category 2A SKIN IRRITATION - Category 3 SKIN IRRITATION - Category 3 SKIN IRRITATION - Category 3 ASPIRATION HAZARD (CONG-TERM) - Category 4 AQUATIC HAZARD (CONG-TERM) - Category 4 SKIN IRRITATION - Category 4 SKIN IRRITATION - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2 EYE IRRITATION - Category 2 EYE IRRITATION - Category 2 EYE IRRITATION - Category 2 ACUTE TOXICITY (Inhalation) - Category 2 ACUTE TOXICITY (INHALARD) (CONG-TERM) - Category 2 ACUTE TOXICITY (INHALARD) (CONG-TERM) - Category 2 ACUTE TOXICITY (INHALARD) - Category 2 ACUTE TOXICITY (INGET EXPOSURE) (Respiratory tract irritation) - Category 3 SECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOS		CAS: 14808-60-7	
Xylene CAS: 1330-20-7 FLAMMABLE LIQUIDS - Category 3 Xylene CAS: 1330-20-7 FLAMMABLE LIQUIDS - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2 EYE IRRITATION - Category 2 EYE IRRITATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narotic effects) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE Exposy resin (MW ≤ 700) CAS: 25068-38-6 SKIN IRRITATION - Category 2 Solvent naphtha (petroleum), light aromatic CAS: 64742-95-6 SNIN IRRITATION - Category 2 Solvent naphtha (petroleum), light aromatic CAS: 95-63-6 SKIN IRRITATION - Category 2 1,2,4-trimethylbenzene CAS: 95-63-6 SKIN IRRITATION - Category 3 1,2,4-trimethylbenzene CAS: 100-41-4 FLAMMABLE LIQUIDS - Category 4 4thylbenzene CAS: 100-41-4 FLAMMABLE LIQUIDS - Category 2 ethylbenzene CAS: 100-41-4 FLAMMABLE LIQUIDS - Category 2 AQUATIC HAZARD (LONG-TERM) - Category 2 SECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 2 4 CAS: 95-63-6 FLAMMABLE LIQUIDS - Category 2 4 SULATC HAZARD (LONG-TERM) - Category 2		CAS: 7779-90-0	
Talc , not containing asbestiform fibres CAS: 14807-96-6 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 Epoxy resin (MW ≤ 700) CAS: 25068-38-6 SKIN IRRITATION - Category 2 Solvent naphtha (petroleum), light aromatic CAS: 64742-95-6 SKIN SENSITIZATION - Category 1B Solvent naphtha (petroleum), light aromatic CAS: 64742-95-6 FLAMMABLE LIQUIDS - Category 2 1,2,4-trimethylbenzene CAS: 95-63-6 FLAMMABLE LIQUIDS - Category 3 1,2,4-trimethylbenzene CAS: 100-41-4 SKIN IRRITATION - Category 2 ethylbenzene CAS: 100-41-4 CAS: 100-41-4 ethylbenzene CAS: 78-83-1 CAS: 78-83-1 2-methylpropan-1-ol CAS: 78-83-1 CAS: 78-83-1 2-methylpropan-1-ol CAS: 98-82-8 CAS: 98-82-8	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
Epoxy resin (MW ≤ 700) CAS: 25068-38-6 SKIN IRRITATION - Category 2 Solvent naphtha (petroleum), light aromatic CAS: 64742-95-6 SKIN SENSITIZATION - Category 1B Solvent naphtha (petroleum), light aromatic CAS: 64742-95-6 FLAMMABLE LQUIDS - Category 3 Skin IRRITATION - Category 1 SKIN IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 1,2,4-trimethylbenzene CAS: 95-63-6 FLAMMABLE LQUIDS - Category 3 1,2,4-trimethylbenzene CAS: 95-63-6 FLAMMABLE LQUIDS - Category 3 4CUTE TOXICITY (inhalation) - Category 2 SKIN IRRITATION - Category 2 5KIN IRRITATION - Category 2 EYE IRRITATION - Category 3 4CUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 5KIN IRRITATION - Category 2 EYE IRRITATION - Category 2 6thylbenzene CAS: 100-41-4 FLAMMABLE LQUIDS - Category 2 92-methylpropan-1-ol CAS: 78-83-1 FLAMMABLE LQUIDS - Category 3 2-methylpropan-1-ol CAS: 78-83-1 FLAMMABLE LQUIDS - Category 3 2-methylpropan-1-ol CAS: 78-83-1 FLAMMABLE LQUIDS - Category 3 2-methylpropan-1-ol CAS: 78-83-1 FLAMMABLE LQUIDS - Category 3 3 SKIN IRRITA	Talc , not containing asbestiform fibres	CAS: 14807-96-6	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) -
Solvent naphtha (petroleum), light aromatic CAS: 64742-95-6 FLAMMABLE LIQUIDS - Category 3 SKIN IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 3 ASPIRATION HAZARD - Category 3 AQUATIC HAZARD (LONG-TERM) - Category 2 FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 2 SKIN IRRITATION - Category 2 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2 Stil IRRITATION - Category 2 EYE IRRITATION - Category 2 Stil IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 ethylbenzene CAS: 100-41-4 FLAMMABLE LIQUIDS - Category 2 2-methylpropan-1-ol CAS: 78-83-1 FLAMMABLE LIQUIDS - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 3 SKIN IRRITATION - Category 2 Semethylpropan-1-ol CAS: 78-83-1 FLAMMABLE LIQUIDS - Category 1 Semethylpropan-1-ol CAS: 78-83-1 FLAMMABLE CAUDIDS - Category 1 Semethylpropan-1-ol CAS: 78-83-1 FLAMMABLE CAUDIDS - Category 3 Seme	Epoxy resin (MW ≤ 700)	CAS: 25068-38-6	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1B
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2 EYE IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Nerviration) - Category 2 ACUTE TOXICITY (Inhalation) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 AQUATIC HAZARD (LONG-TERM) - Category 2 AQUATIC HAZARD (LONG-TERM) - Category 2 ACUTE TOXICITY (Inhalation) - Category 4 SKIN IRRITATION - Category 1 Category 3 AQUATIC HAZARD (LONG-TERM) - Category 2 ACUTE TOXICITY (Inhalation) - Category 4 CARCINOGENICITY - Category 2 ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 3 SKIN IRRITATION - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 2 ASPIRATION HAZARD - Category 3 ASPIRATION HAZARD - Categor		CAS: 64742-95-6	FLAMMABLE LIQUIDS - Category 3
ethylbenzeneCAS: 100-41-4FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 2 ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 3 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 3	1,2,4-trimethylbenzene	CAS: 95-63-6	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2 FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
2-methylpropan-1-ol CAS: 78-83-1 FLAMMABLE LIQUIDS - Category 3 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 cumene CAS: 98-82-8 FLAMMABLE LIQUIDS - Category 3	ethylbenzene	CAS: 100-41-4	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 2 ASPIRATION HAZARD - Category 1
			FLAMMABLE LIQUIDS - Category 3 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 2
	cumene	CAS: 98-82-8	

Section 11. Toxicological information

cadmium	CAS: 7440-43-9	ACUTE TOXICITY (oral) - Category 3
		ACUTE TOXICITY (inhalation) - Category 2
		GERM CELL MUTAGENICITY - Category 2
		CARCINOGENICITY - Category 1
		TOXIC TO REPRODUCTION - Category 2
		SPECIFIC TARGET ORGAN TOXICITY
		(REPEATED EXPOSURE) - 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
trizinc bis(orthophosphate)	Acute LC50 0.112 mg/l	Fish	96 hours
	Chronic NOEC 0.026 mg/l	Fish	30 days
Epoxy resin (MW ≤ 700)	Acute LC50 1.8 mg/l	Daphnia	48 hours
	Chronic NOEC 0.3 mg/l	Daphnia	21 days
Solvent naphtha	Acute LC50 8.2 mg/l	Fish	96 hours
(petroleum), light aromatic			
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
cadmium	Acute LC50 1500 ppb	Fish	96 hours

B. Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
Epoxy resin (MW ≤ 700) ethylbenzene	OECD 301F -	5 % - 28 da 79 % - Rea	ays adily - 10 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
Xylene Epoxy resin (MW ≤ 700) ethylbenzene	- - -		-		Readily Not rea Readily	dily

C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
X ylene	3.12	7.4 to 18.5	Low
Epoxy resin (MW ≤ 700)	3	31	Low
1,2,4-trimethylbenzene	3.63	120.23	Low
ethylbenzene	3.6	79.43	Low
2-methylpropan-1-ol	1	-	Low
cumene	3.55	35.48	Low

D. Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

- E. Other adverse effects
- : No known significant effects or critical hazards.

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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. 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.	(trizinc bis(orthophosphate))	Not applicable.

Additional information

IMDG

- UN : None identified.
 - : The marine pollutant mark is not required when transported in sizes of ≤ 5 L or ≤ 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

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Product name SIGMACOVER 256S BASE BASE Z

Section 15. Regulatory information

Α.	Regulation according to l	<u>SHA</u>		
	ISHA article 117 (Harmful substances prohibited from manufacture)	: None of the components are listed.		
	ISHA article 118 (Harmful substances requiring permission)	: None of the components are listed.		
	Article 2 of Youth Protection Act on Substances Hazardous to Youth	: It is not allowed to sell to persons under the age of 19.		
	Exposure Limits of Chem	cal Substances and Physical Factors		
	The following components Fystalline silica, respirable Xylene Talc, not containing asbes 1,2,4-trimethylbenzene ethylbenzene 2-methylpropan-1-ol cumene cadmium	e powder (<10 microns)		
	ISHA Enforcement Regs Annex 19 (Exposure standards established for harmful factors) ISHA Enforcement Regs Annex 21 (Harmful factors subject to Work Environment	 None of the components are listed. The following components are listed: quartz, xylene, talc / soapstone, ethyl benzene, isobutyl alcohol 		
	Measurement) ISHA Enforcement Regs Annex 22 (Harmful Factors Subject to Special Health Check- up)	: The following components are listed: Xylene, Ethyl benzene, Isobutyl alcohol		
	Standard of Industrial Safety and Health Annex 12 (Hazardous substances subject to control)	: The following components are listed: zinc and its compounds, xylene, ethyl benzene, isobutyl alcohol		
B.	. Regulation according to Chemicals Control Act			
	Article 11 (TRI)	: The following components are listed: Zinc and its compounds, Xylene including o-,m-,p- isomer, Barium and its compounds, 4,4'-(1-Methylethylidene) bisphenol polymer with (chloromethyl)oxirane, Ethylbenzene		
	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.		

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Product name SIGMACOVER 256S BASE BASE Z

Section 15. Regulatory information

	Article 20 Restricted (K- Reach Article 27)	1	None of the components are listed.
	Article 20 Toxic Chemicals (K-Reach Article 20)	:	Not applicable
	Korea inventory	:	All components are listed or exempted.
	Article 39 (Accident Precaution Chemicals)	:	None of the components are listed.
C.	Dangerous Materials Safety Management Act	:	Class: Class 4 - Flammable Liquid Item: 4. Class 2 petroleums - Water-insoluble liquid Threshold: 1000 L Danger category: III Signal word: Contact with sources of ignition prohibited
D.	Wastes regulation	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Ε.	Regulation according to o	oth	er foreign laws
	Safety, health and environmental	:	No known specific national and/or regional regulations applicable to this product (including its ingredients).

Section 16. Other information

regulations specific for

the product

Α.	References	:	Korean Ministry of Environment; Chemical Control Act Korean Ministry of Labor; Industrial Safety and Health Act NIER Notice Registry of Toxic Effects of Chemical Substances (RTECS) U.S. Environmental Protection Agency, AQUIRE (Aquatic toxicity Information Retrieval) ECOTOX Database System.
В.	First issue date	:	3/25/2018
C.	Date of issue/Date of revision	:	8/13/2024
D.	Version	:	8.02
	Prepared by	:	EHS
-	Other		

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.