SAFETY DATA SHEET



Date of issue 3/14/2025 (month/day/year)

Version 9

Section 1. Chemical product and company identification

Α.	Product name	1	SIGMACOVER 380 BASE GREY
	Product code	4	00383416

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	: PPG SSC (680-090) 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	: FLAMMABLE LIQUIDS - Category 3				
	SKIN IRRITATION - Category 2				
	SERIOUS EYE DAMAGE - Category 1				
	SKIN SENSITIZATION - Category 1				
	CARCINOGENICITY - Category 1A				
	TOXIC TO REPRODUCTION - Category 2				
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract				
	irritation) - Category 3				
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2				
	AQUATIC HAZARD (ACUTE) - Category 1				
	AQUATIC HAZARD (LONG-TERM) - Category 1				
	This product is classified in accordance with the Industrial Safety and Health Act and				
	the Chemical Control Act.				
R CHS label elements in	B. GHS label elements, including precautionary statements				
D. Ono label elements, including precationary statements					

Symbol	
Signal word	: Danger

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Section 2. Hazards identification

Hazard statements	 F226 - Flammable liquid and vapor. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H318 - Causes serious eye damage. H335 - May cause respiratory irritation. H350 - May cause cancer. H361 - Suspected of damaging fertility or the unborn child. H373 - May cause damage to organs through prolonged or repeated exposure. (central nervous system (CNS), kidneys, liver) H400 - Very toxic to aquatic life. H410 - Very toxic to aquatic life with long lasting effects.
Precautionary statement	
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 ignition sources. No smoking. P241 - Use explosion-proof electrical, ventilating or lighting equipment. P241 - Use explosion-proof electrical, ventilating or lighting equipment. P242 - Use non-sparking tools. P243 - Take action to prevent static discharges. P240 - Ground and bond container and receiving equipment. P273 - Avoid release to the environment. P260 - Do not breathe vapor. P264 - Wash thoroughly after handling.
Response	 P391 - Collect spillage. P370 + P378 - In case of fire: Never use water to extinguish. P308 + P313 - IF exposed or concerned: Get medical advice or attention. P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention. P305 + P351 + P338, P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor. P321 - Specific treatment (see the label).
Storage	 P403 + P233 - Store in a well-ventilated place. Keep container tightly closed. P403 + P235 - 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	: Prolonged or repeated contact may dry skin and cause irritation.

classification

С

Section 3. Composition/information on ingredients

CAS number/other identifiers

CAS number

: Not applicable.

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Section 3. Composition/information on ingredients

Chemical name	Common name	Identifiers	%
Sílicon oxide (crystalline quartz)	QUARTZ (>10 microns)	CAS: 14808-60-7	20 - <30
		EC: 238-878-4	
Talc , not containing asbestiform fibres	Talc, non-asbestos form	CAS: 14807-96-6	20 -
			<30
		EC: 238-877-9	
2,2"-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)]bisoxirane	Bisphenol A diglycidyl ether	CAS: 1675-54-3	10 -<20
		EC: 216-823-5	
nonylphenol	NONYL PHENOL	CAS: 25154-52-3	1 - <5
		EC: 246-672-0	
ethylbenzene	ETHYLBENZENE	CAS: 100-41-4	1 - <5
		EC: 202-849-4	
Epoxy Resin (700 <mw<=1100)< td=""><td>EPOXY RESIN (AVERAGE</td><td>CAS: 25036-25-3</td><td>1 - <5</td></mw<=1100)<>	EPOXY RESIN (AVERAGE	CAS: 25036-25-3	1 - <5
	MOLECULAR WEIGHT >700 - <1100)		
Xylene	XYLENES	CAS: 1330-20-7	1 - <5
		EC: 215-535-7	
Phenol, methylstyrenated	Phenol, methylstyrenated	CAS: 68512-30-1	1 - <5
		EC: 270-966-8	
Aluminum	ALUMINUM POWDER	CAS: 7429-90-5	1 - <5
		EC: 231-072-3	4 .5
Isobutyl alcohol	ISOBUTYL ALCOHOL	CAS: 78-83-1	1 - <5
tite pice pieceide		EC: 201-148-0	1 45
titanium dioxide	TITANIUM DIOXIDE	CAS: 13463-67-7	1 - <5
	1.2.4.5 totromothylhonzono	EC: 236-675-5 CAS: 95-93-2	1 - <5
1,2,4,5-TETRAMETHYLBENZENE	1,2,4,5-tetramethylbenzene	EC: 202-465-7	1-5
nonvinhonois	n nonvinbonol	CAS: 104-40-5	<0.1
nonylphenols	p-nonylphenol	EC: 203-199-4	~ 0.1
		LO. 200-199-4	

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	:	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
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.

Section 4. First aid measures

Ε.	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	-	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 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 sulfur oxides 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. 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. Do not breathe 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

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Section 6. Accidental release measures

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

Α.	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 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.
в.	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
Silicon oxide (crystalline quartz)	ISHA Article 42 (Republic of Korea, 1/2020)
	TWA 8 hours: 0.05 mg/m³. Form: Respirable fraction.
Talc , not containing asbestiform fibres	ACGIH TLV (United States, 1/2024) TWA 8 hours: 2 mg/m ³ . Form: Respirable
	fraction.
ethylbenzene	ISHA Article 42 (Republic of Korea,
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Section 8. Exposure controls/personal protection

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	Body protection	:	being performed and the risks involved			
	Gloves	:	: butyl rubber			
	Hand protection	:	be worn at all times when handling che this is necessary. Considering the par- check during use that the gloves are st should be noted that the time to breakt different for different glove manufactur several substances, the protection time estimated.	ers. In the case of mixtures, consisting of	tes	
	Eye protection		necessary. Chemical splash goggles and face shie			
	Respiratory protection		Respirator selection must be based on hazards of the product and the safe we workers are exposed to concentrations appropriate, certified respirators. Use respirator complying with an approved	known or anticipated exposure levels, the orking limits of the selected respirator. If above the exposure limit, they must use a properly fitted, air-purifying or air-fed standard if a risk assessment indicates this		
C.	Personal protective equip	me	ent			
	Environmental exposure controls	:				
В.	Appropriate engineering controls		also need to keep gas, vapor or dust co limits. Use explosion-proof ventilation e	to keep worker exposure to airborne or statutory limits. The engineering contro incentrations below any lower explosive equipment.		
	Recommended monitoring procedures	:	Reference should be made to appropria national guidance documents for metho substances will also be required.			
				ISHA Article 42 (Republic of Korea, 1/2020) TWA 8 hours: 10 mg/m ³ .		
	Isobutyl alcohol titanium dioxide			ISHA Article 42 (Republic of Korea, 1/2020) TWA 8 hours: 50 ppm.		
	Aluminum			ISHA Article 42 (Republic of Korea, 1/2020) TWA 8 hours: 10 mg/m ³ . Form: Dust.		
	Xylene			ISHA Article 42 (Republic of Korea, 1/2020) [Xylene] STEL 15 minutes: 150 ppm. TWA 8 hours: 100 ppm.		
				1/2020) STEL 15 minutes: 125 ppm. TWA 8 hours: 100 ppm.		

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Section 8. Exposure controls/personal protection

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

: Not available.

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

|--|

	Physical state	:	Liquid.
	Color	:	Gray.
В.	Odor	:	Characteristic.
С.	Odor threshold	:	Not available.
D.	рН	:	Not applicable.
Е.	Melting/freezing point	:	Not available.
F.	Boiling point/boiling range	:	>37.78°C (>100°F)
G.	Flash point	:	Closed cup: 38.4°C (101.1°F)
н.	Evaporation rate	:	Not available.

- I. Flammability (solid, gas) : Not available.
- J. Lower and upper explosive (flammable) limits
- K. Vapor pressure 2 Vapor Pressure at 20°C Vapor pressure at 50°C kPa **Ingredient name** mm Hg kPa Method Method mm Hg 2-methylpropan-1-ol <12.00102 <1.6 DIN EN 13016-2 Media Result L. Solubility(ies) ż cold water Not soluble Solubility in water : Not available. Vapor density Not available. 2 Μ. : 1.31 **Relative density** N. Partition coefficient: n-: Not applicable. 0. octanol/water **Auto-ignition** ŝ, Ρ. temperature Ingredient name °C °F Method 370 698 nonylphenol Decomposition : Not available. Q. temperature

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Section 9. Physical and chemical properties

R.	Viscosity	: Øynamic (room temperature): Not available. Kinematic (room temperature): Not available. Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)
	Flow time (ISO 2431)	: Not available.
S.	Molecular weight	: Not applicable.

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 metal oxide/oxides

Section 11. Toxicological information

cracking

blistering may occur reduced fetal weight

- A. Information on the likely routes of exposure
- : Not available.

routes of exposure

Potential acute heal	th effects
Inhalation	: May cause respiratory irritation.
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 damage.
Over-exposure sign	s/symptoms
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: stomach pains reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness

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increase in fetal deaths skeletal malformations

Eye contact

: Adverse symptoms may include the following: pain watering redness

B. Health hazards

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2,2"-[(1-methylethylidene)bis	LD50 Dermal	Rabbit	23000 mg/kg	-
(4,1-phenyleneoxymethylene)]				
bisoxirane		_ (45000 //	
	LD50 Oral	Rat	15000 mg/kg	-
nonylphenol	LD50 Dermal	Rabbit	2.14 g/kg	-
	LD50 Oral	Rat	580 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	-
Epoxy Resin (700 <mw<=1100)< td=""><td>LD50 Dermal</td><td>Rat</td><td>>2000 mg/kg</td><td>-</td></mw<=1100)<>	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
Xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
Phenol, methylstyrenated	LD50 Dermal	Rabbit	>2000 mg/kg	-
, , ,	LD50 Oral	Rat	>2000 mg/kg	-
Aluminum	LC50 Inhalation Dusts and	Rat	>5 mg/l	4 hours
	mists		5 mg/	
	LD50 Oral	Rat	>15900 mg/kg	_
Isobutyl alcohol	LC50 Inhalation Vapor	Rat	24.6 mg/l	4 hours
	LD50 Dermal	Rabbit	2460 mg/kg	-
	LD50 Oral	Rat	2830 mg/kg	
titanium dioxide	LC50 Inhalation Dusts and	Rat	>6.82 mg/l	- 4 hours
	mists	ιται	20.02 mg/i	4 110015
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
1,2,4,5-TETRAMETHYLBENZENE	LD50 Oral	Rat	6700 mg/kg	-
nonylphenols	LD50 Oral	Rat	1620 mg/kg	-

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

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
2,2"-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)] bisoxirane	Eyes - Mild irritant	Rabbit	-	24 hours	-
	Eyes - Redness of the conjunctivae	Rabbit	0.4	24 hours	-
	Skin - Edema	Rabbit	0.5	4 hours	-
	Skin - Erythema/Eschar	Rabbit	0.8	4 hours	-
	Skin - Mild irritant	Rabbit	-	4 hours	-
Xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-

Conclusion/Summary

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- : 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

Skin

Product/ingredient name	Route of exposure	Species	Result
₽,2"-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)] bisoxirane	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.	
-	There are no data a	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.	
Teratogenicity Conclusion/Summary :	There are no data	available on the mixture itself.	

Specific target organ toxicity (single exposure)

Name	Classification	Route of exposure	Target organs
Silicon oxide (crystalline quartz)	Category 3	-	Respiratory tract irritation
Talc , not containing asbestiform fibres	Category 3	-	Respiratory tract irritation
Xylene	Category 3	-	Narcotic effects
Isobutyl alcohol	Category 3	-	Respiratory tract irritation
-	Category 3	-	Narcotic effects
1,2,4,5-TETRAMETHYLBENZENE	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Name	Classification	Route of exposure	Target organs
X ylene €	Category 1		central nervous system (CNS), kidneys, liver
Aluminum	Category 2	-	-

Aspiration hazard

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Section 11. Toxicological information

Name	Result
e thylbenzene	ASPIRATION HAZARD - Category 1

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. Suspected of damaging fertility or the unborn child.

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.

Chemical name	Identifiers	GHS Classification
Sílicon oxide (crystalline quartz)	CAS: 14808-60-7 EC: 238-878-4	CARCINOGENICITY - Category 1A SPECIFIC TARGET ORGAN TOXICITY (SINGLE
Talc , not containing asbestiform fibres	CAS: 14807-96-6	EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) -
	FC: 020 077 0	Category 3
2,2"-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)]bisoxirane	EC: 238-877-9 CAS: 1675-54-3	SKIN IRRITATION - Category 2
(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	EC: 216-823-5	EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2
nonylphenol	CAS: 25154-52-3 EC: 246-672-0	CORROSIVE TO METALS - Category 1 ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION - Category 1 SERIOUS EYE DAMAGE - Category 1 TOXIC TO REPRODUCTION - Category 2
ethylbenzene	CAS: 100-41-4 EC: 202-849-4	AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 2
Epoxy Resin (700 <mw<=1100)< td=""><td>CAS: 25036-25-3</td><td>ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 3 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A</td></mw<=1100)<>	CAS: 25036-25-3	ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 3 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A
Xylene	CAS: 1330-20-7 EC: 215-535-7	SKIN SENSITIZATION - Category 1B FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2

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Section 11. Toxicological information

		EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE
		EXPOSURE) (Narcotic effects) - Category 3
		SPECIFIC TARGET ORGAN TOXICITY
		(REPEATED EXPOSURE) - Category 1
Phenol, methylstyrenated	CAS: 68512-30-1	SKIN IRRITATION - Category 2
	EC: 270-966-8	SKIN SENSITIZATION - Category 1B
		AQUATIC HAZARD (LONG-TERM) - Category 3
Aluminum	CAS: 7429-90-5	FLAMMABLE SOLIDS - Category 1
	EC: 231-072-3	PYROPHORIC SOLIDS - Category 1
		SUBSTANCES AND MIXTURES, WHICH IN
		CONTACT WITH WATER, EMIT FLAMMABLE
		GASES - Category 2
		SPECIFIC TARGET ORGAN TOXICITY
		(REPEATED EXPOSURE) - Category 2
		AQUATIC HAZARD (LONG-TERM) - Category 1
Isobutyl alcohol	CAS: 78-83-1	FLAMMABLE LIQUIDS - Category 3
	EC: 201-148-0	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
titanium dioxide	CAS: 13463-67-7	CARCINOGENICITY - Category 2
	EC: 236-675-5	
1,2,4,5-TETRAMETHYLBENZENE	CAS: 95-93-2	SPECIFIC TARGET ORGAN TOXICITY (SINGLE
		EXPOSURE) (Respiratory tract irritation) -
		Category 3
	EC: 202-465-7	AQUATIC HAZARD (ACUTE) - Category 1
		AQUATIC HAZARD (LONG-TERM) - Category 1
nonylphenols	CAS: 104-40-5	CORROSIVE TO METALS - Category 1
	EC: 203-199-4	ACUTE TOXICITY (oral) - Category 4
		SKIN CORROSION - Category 1
		SERIOUS EYE DAMAGE - Category 1 TOXIC TO REPRODUCTION - Category 2
		AQUATIC HAZARD (ACUTE) - Category 1
		AQUATIC HAZARD (ACOTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1
		Cond-TERNI) - Calegoly T

Section 12. Ecological information

A. <u>Ecotoxicity</u>

Product/ingredient name	Result	Species	Exposure
2,2"-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)] bisoxirane	Acute LC50 1.8 mg/l Fresh water	Daphnia - <i>daphnia magna</i>	48 hours
	Chronic NOEC 0.3 mg/l	Daphnia	21 days
nonylphenol	Acute EC50 0.056 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Chronic EC10 0.003 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Chronic NOEC 1 µg/l Fresh water	Daphnia - <i>Daphnia magna</i>	21 days
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
,	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
Isobutyl alcohol	Acute EC50 1100 mg/l	Daphnia	48 hours
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Section 12. Ecological information

	····J			
	titanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	nonylphenols	Acute EC50 117.7 µg/l Fresh water	Algae - Raphidocelis	72 hours
			subcapitata - Exponential	
			growth phase	
		Chronic EC10 54.4 µg/l Fresh water	Algae - Raphidocelis	72 hours
			subcapitata - Exponential	
			growth phase	
L			- .	

B. Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
ethylbenzene	-	79 % - Rea	adily - 10 days	-		-
Product/ingredient name	Aquatic half-life	•	Photolysis	•	Biodeg	radability
2,2"-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)] bisoxirane	-		-		Not rea	dily
ethylbenzene Xylene	-		-		Readily Readily	

C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
ponylphenol	3.28	154.88	Low
ethylbenzene	3.6	79.43	Low
Xylene	3.12	7.4 to 18.5	Low
Phenol, methylstyrenated	3.627	-	Low
Isobutyl alcohol	1	-	Low
1,2,4,5-TETRAMETHYLBENZENE	4	-	High
nonylphenols	5.76	380.19	Low

D. Mobility in soil

Soil/Water partition : Not available. coefficient

E. <u>Other adverse effects</u> : 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.

Section 13. Disposal considerations

- **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	IATA	
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 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.	(bis-[4-(2,3-epoxipropoxi) phenyl]propane)	Not applicable.	

Additional information

UN: None identified.IMDG: 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

Section 15. Regulatory information

Α.	Regulation according to ISHA				
	ISHA article 117 (Harmful substances prohibited from manufacture)	: None of the components are listed.			
	ISHA article 118 (Harmful substances requiring permission)	: None of the components are listed.			

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Section 15. Regulatory information

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:

	ISHA Enforcement Regs Annex 19 (Exposure standards established for harmful factors)	:	None of the components are listed.
	ISHA Enforcement Regs Annex 11-5 (Harmful factors subject to Work Environment Measurement)	:	The following components are listed: quartz, talc / soapstone, ethyl benzene, xylene, aluminum and its compounds, isobutyl alcohol, titanium dioxide, mica
	ISHA Enforcement Regs Annex 22 (Harmful Factors Subject to Special Health Check- up)	:	The following components are listed: Ethyl benzene, Xylene, Aluminum and its compounds, Isobutyl alcohol
	Standard of Industrial Safety and Health Annex 12 (Hazardous substances subject to control)	:	The following components are listed: ethyl benzene, xylene, aluminum and its compounds, isobutyl alcohol, titanium dioxide
В.	Regulation according to (Che	emicals Control Act
	Article 11 (TRI)	:	The following components are listed: Nonylphenol, Ethylbenzene, Xylene including o-,m-,p- isomer, Aluminium and its compounds, Barium and its compounds
	Article 18 Prohibited (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 20 Restricted (K- Reach Article 27)	:	The following components are listed: nonylphenols
	Article 20 Toxic Chemicals (K-Reach Article 20)	:	Toxic
	Korea inventory	:	All components are listed or exempted.
	Article 39 (Accident Precaution Chemicals)	1	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.
-	Description seconding to .		an familian laws

E. <u>Regulation according to other foreign laws</u>

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Section 15. Regulatory information

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

Section 16. Other information

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	:	10/31/2019
C.	Date of issue/Date of revision	:	3/14/2025
D.	Version	:	9
	Prepared by	:	EHS
- E	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.