# SAFETY DATA SHEET



Date of issue 3/14/2024 (month/day/year)

Version 24

### Section 1. Chemical product and company identification

Α.	Product name Product code	: SIGMACOVER 380 BASE GREY 5100 : 00250042
В.	Relevant identified uses of	of the substance or mixture and uses advised against
	Product use	: Consumer applications, Professional applications, Used by spraying.
	Use of the substance/ mixture	: Coating.
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:	: <mark>⊁</mark> 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
	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 a	accordance with the Industrial Safety and Health Act and the Chemical Control Act

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



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### Section 2. Hazards identification

Hazard statements	<ul> <li>H226 - Flammable liquid and vapor.</li> <li>H315 - Causes skin irritation.</li> <li>H317 - May cause an allergic skin reaction.</li> <li>H319 - Causes serious eye irritation.</li> <li>H335 - May cause respiratory irritation.</li> <li>H350 - May cause cancer.</li> <li>H361 - Suspected of damaging fertility or the unborn child.</li> <li>H373 - May cause damage to organs through prolonged or repeated exposure.</li> <li>(central nervous system (CNS), kidneys, liver)</li> <li>H410 - Very toxic to aquatic life with long lasting effects.</li> </ul>
Precautionary statements	S
General	<ul> <li>P102 - Keep out of reach of children.</li> <li>P101 - If medical advice is needed, have product container or label at hand.</li> </ul>
Prevention	<ul> <li>P201 - Obtain special instructions before use.</li> <li>P280 - Wear protective gloves, protective clothing and eye or face protection.</li> <li>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P241 - Use explosion-proof electrical, ventilating or lighting equipment.</li> <li>P242 - Use non-sparking tools.</li> <li>P243 - Take action to prevent static discharges.</li> <li>P271 - Use only outdoors or in a well-ventilated area.</li> <li>P273 - Avoid release to the environment.</li> <li>P260 - Do not breathe vapor.</li> <li>P264 - Wash thoroughly after handling.</li> </ul>
Response	<ul> <li>P391 - Collect spillage.</li> <li>P308 + P313 - IF exposed or concerned: Get medical advice or attention.</li> <li>P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.</li> <li>P362 + P364 - Take off contaminated clothing and wash it before reuse.</li> <li>P302 + P352 - IF ON SKIN: Wash with plenty of water.</li> <li>P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.</li> <li>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.</li> <li>Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P337 + P313 - If eye irritation persists: Get medical advice or attention.</li> </ul>
Storage	<ul> <li>P405 - Store locked up.</li> <li>P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.</li> <li>P403 + P235 - Keep cool.</li> </ul>
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
C. Other hazards which do not result in classification	: Causes digestive tract burns. Prolonged or repeated contact may dry skin and cause irritation.

# Section 3. Composition/information on ingredients

#### CAS number/other identifiers

CAS number : Not

: Not applicable.

### Section 3. Composition/information on ingredients

Chemical name	Common name	Identifiers	%
rystalline silica, respirable powder (>10 microns)	QUARTZ (>10 microns)	CAS: 14808-60-7	20 - <30
Talc , not containing asbestiform fibres	Talc, non-asbestos form	CAS: 14807-96-6	10 -<20
bis-[4-(2,3-epoxipropoxi)phenyl]propane	Bisphenol A diglycidyl ether	CAS: 1675-54-3	10 -<20
Xylene	XYLENES	CAS: 1330-20-7	5 - <10
nonylphenols	4-nonylphenol, branched	CAS: 84852-15-3	1 - <5
Aluminium powder (stabilized)	ALUMINUM POWDER	CAS: 7429-90-5	1 - <5
Epoxy Resin (700 <mw<=1100)< td=""><td>EPOXY RESIN (AVERAGE MOLECULAR WEIGHT &gt;700 - &lt;1100)</td><td>CAS: 25036-25-3</td><td>1 - &lt;5</td></mw<=1100)<>	EPOXY RESIN (AVERAGE MOLECULAR WEIGHT >700 - <1100)	CAS: 25036-25-3	1 - <5
Phenol, methylstyrenated	Phenol, methylstyrenated	CAS: 68512-30-1	1 - <5
crystalline silica, respirable powder (<10 microns)	QUARTZ (<10 microns)	CAS: 14808-60-7	1 - <5
titanium dioxide	TITANIUM DIOXIDE	CAS: 13463-67-7	1 - <5
2-methylpropan-1-ol	ISOBUTYL ALCOHOL	CAS: 78-83-1	1 - <5
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	CAS: 64742-48-9	1 - <5
ethylbenzene	ETHYLBENZENE	CAS: 100-41-4	1 - <5
Octadecanamide, N,N'-1,6-hexanediylbis [12-hydroxy-	N,N-1,6-HEXANEDIYLBIS (12-HYDROXY-OCTADECANEIMIDE)	CAS: 55349-01-4	1 - <5

# 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.
Ε.	Notes to physician	:	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	Specific treatments	:	No specific treatment.
	Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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### Section 4. First aid measures

See toxicological information (Section 11)

### Section 5. Fire-fighting measures

Α.	Extinguishing media		
	Suitable extinguishing media	:	Use dry chemical, CO <sub>2</sub> , 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 nitrogen 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

contractor.

A. Personal precautions, protective equipment and emergency procedures	<ul> <li>No action shall be taken involving any personal risk or without suitable training.</li> <li>Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources.</li> <li>No flares, smoking or flames in hazard area. Avoid breathing vapor or mist.</li> <li>Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.</li> </ul>
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 o	ontainment 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

#### Section 6. Accidental release measures

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 noncombustible, 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.
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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
rystalline silica, respirable powder (>10 microns)	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	TWA: 0.05 mg/m <sup>3</sup> 8 hours. Form:
	Respirable fraction
Talc , not containing asbestiform fibres	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	TWA: 2 mg/m <sup>3</sup> 8 hours. Form: fibers
Xylene	Ministry of Employment and Labor
	(Republic of Korea, 1/2020). [Xylene (all
	isomers)]
	STEL: 150 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
Aluminium powder (stabilized)	Ministry of Employment and Labor
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### Section 8. Exposure controls/personal protection

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	crystalline silica, respirable	; p	owder (<10 microns)	(Republic of Korea, 1/2020). TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Dust Ministry of Employment and Labor (Republic of Korea, 1/2020). TWA: 0.05 mg/m <sup>3</sup> 8 hours. Form:
	titanium dioxide			Respirable fraction <b>Ministry of Employment and Labor</b> (Republic of Korea, 1/2020). TWA: 10 mg/m <sup>3</sup> 8 hours. Form: total dust
	2-methylpropan-1-ol			with less than 1% of free SiO2 Ministry of Employment and Labor (Republic of Korea, 1/2020). TWA: 50 ppm 8 hours.
	ethylbenzene			Ministry of Employment and Labor (Republic of Korea, 1/2020). STEL: 125 ppm 15 minutes. TWA: 100 ppm 8 hours.
	Recommended monitoring procedures	:		iate monitoring standards. Reference to nods for the determination of hazardous
В.	Appropriate engineering controls	:	contaminants below any recommende	ls to keep worker exposure to airborne d or statutory limits. The engineering controls concentrations below any lower explosive
	Environmental exposure controls	:		
<b>C</b> .	Personal protective equip	m	ent	
	Respiratory protection	:	hazards of the product and the safe w workers are exposed to concentration appropriate, certified respirators. Use	n known or anticipated exposure levels, the vorking limits of the selected respirator. If is above the exposure limit, they must use a properly fitted, air-purifying or air-fed d standard if a risk assessment indicates this is
	Eye protection		Chemical splash goggles and face sh	ield.

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

: butyl rubber

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### Section 8. Exposure controls/personal protection

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
Hygiene measures	<ul> <li>discharges, clothing should include anti-static overalls, boots and gloves.</li> <li>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.</li> </ul>

### Section 9. Physical and chemical properties

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

Α.	Appearance								
	Physical state	:	Liquid.						
	Color	1	Gray.						
В.	Odor	1	Aromatic.						
С.	Odor threshold	1	Not available.						
D.	рН	1	Not applicable.						
Ε.	Melting/freezing point	1	Not available.						
F.	Boiling point/boiling range	:	>37.78°C (>100°F)						
G.	Flash point	4	Closed cup: 38°C (10	00.4°F)					
н.	Evaporation rate	1	Not available.						
Т.	Flammability (solid, gas)	:	Not available.						
		:	Greatest known rang	je: Lower:	1.7% l	Jpper: 10.9%	(2-methy	/lpropan-	1-ol)
J.	explosive (flammable) limits								
		:		Vapo	r Press	ure at 20°C	Va	oor press	sure at 50°C
	limits	:	Ingredient name	Vapor mm Hg	r Press kPa	ure at 20°C Method	Vaj mm Hg	oor press kPa	sure at 50°C Method
	limits	:	Ingredient name		kPa		mm		
	limits Vapor pressure	:		mm Hg	kPa	Method DIN EN	mm		
	limits	:	2-methylpropan-1-ol		<b>kPa</b> <1.6	Method DIN EN 13016-2	mm		
	limits Vapor pressure	:	Media		kPa <1.6 sult	Method DIN EN 13016-2	mm		
K. L.	limits Vapor pressure Solubility(ies) Solubility in water Vapor density		Media		kPa <1.6 sult	Method DIN EN 13016-2	mm		
K. L.	limits Vapor pressure Solubility(ies) Solubility in water Vapor density		Media Fold water Not available.		kPa <1.6 sult	Method DIN EN 13016-2	mm		
K. L.	limits Vapor pressure Solubility(ies) Solubility in water Vapor density		<ul> <li>Media</li> <li>Molia</li> <li>Mot available.</li> <li>Not available.</li> </ul>		kPa <1.6 sult	Method DIN EN 13016-2	mm		

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### Section 9. Physical and chemical properties

		Ingredient name	°C	°F	Method
		Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	>230	>446	
Q.	Decomposition temperature	Not available.			
R.	Viscosity	: Kinematic (40°C (104°F)): >21	mm²/s (>2	1 cSt)	
Λ.	Flow time (ISO 2431)	Not available.			
S.	Molecular weight	: Not applicable.			

### Section 10. Stability and reactivity

Α.	Chemical stability	1	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 nitrogen oxides metal oxide/oxides

## Section 11. Toxicological information

Α.	Information on the likel routes of exposure	y : Not available.
<u>P</u>	otential acute health effe	ects
	Inhalation	May cause respiratory irritation.
	Ingestion	Corrosive to the digestive tract. Causes burns.
	Skin contact	Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
	Eye contact	Causes serious eye irritation.
<u>0</u>	<u>ver-exposure signs/sym</u>	<u>ptoms</u>
	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

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### Section 11. Toxicological information

Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness

#### **B. Health hazards**

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
s-[4-(2,3-epoxipropoxi)phenyl]propane	LD50 Dermal	Rabbit	23000 mg/kg	-
	LD50 Oral	Rat	15000 mg/kg	-
Xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
,	LD50 Oral	Rat	4.3 g/kg	-
nonylphenols	LD50 Dermal	Rabbit	2.14 g/kg	-
21	LD50 Oral	Rat	1300 mg/kg	-
Aluminium powder (stabilized)	LC50 Inhalation Dusts and	Rat	>5 mg/l	4 hours
	mists		0	
	LD50 Oral	Rat	>15900 mg/kg	-
Epoxy Resin (700 <mw<=1100)< td=""><td>LD50 Dermal</td><td>Rat</td><td>&gt;2000 mg/kg</td><td>-</td></mw<=1100)<>	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
Phenol, methylstyrenated	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
titanium dioxide	LC50 Inhalation Dusts and	Rat	>6.82 mg/l	4 hours
	mists			
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/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	-
Hydrocarbons, C10-C13, n-alkanes,	LD50 Dermal	Rabbit	>5000 mg/kg	-
isoalkanes, cyclics, < 2% aromatics				
	LD50 Oral	Rat	>6 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	-

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

#### Irritation/Corrosion

### Section 11. Toxicological information

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Product/ingredient name	Result	Species	Score	Exposure	Observation
s-[4-(2,3-epoxipropoxi)phenyl] propane	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	-
nonylphenols	Skin - Erythema/Eschar	Rabbit	4	-	-

#### Conclusion/Summary . .

Skin	: There are no data available on the mixture itself.
Eyes	: There are no data available on the mixture itself.
Distant to the second	

Respiratory

: There are no data available on the mixture itself.

#### **Sensitization**

ochonization	1		
Product/ingredient name	Route of exposure	Species	Result
bis-[4-(2,3-epoxipropoxi) phenyl]propane	skin	Mouse	Sensitizing
Conclusion/Summary			
Skin	I here are no data	available on the mixture itself.	
Respiratory	There are no data	available on the mixture itself.	
<u>Mutagenicity</u>			
Conclusion/Summary	There are no data	a available on the mixture itself.	
<u>Carcinogenicity</u> Conclusion/Summary	: There are no data	a available on the mixture itself.	
Reproductive toxicity Conclusion/Summary	: There are no dat	a 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
Talc , not containing asbestiform fibres	Category 3	-	Respiratory tract irritation
Xylene	Category 3	-	Narcotic effects
2-methylpropan-1-ol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects

#### Specific target organ toxicity (repeated exposure)

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### Section 11. Toxicological information

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

#### **Aspiration hazard**

Name	Result
2-methylpropan-1-ol Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	ASPIRATION HAZARD - Category 2 ASPIRATION HAZARD - Category 1
ethylbenzene	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	: May cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.

#### **Additional information**

Causes digestive tract burns. 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		
vystalline silica, respirable powder (>10 microns)	CAS: 14808-60-7	CARCINOGENICITY - Category 1A		
Talc , not containing asbestiform fibres	CAS: 14807-96-6	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1B AQUATIC HAZARD (LONG-TERM) - Category 2		
bis-[4-(2,3-epoxipropoxi)phenyl]propane	CAS: 1675-54-3			
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		
nonylphenols	CAS: 84852-15-3	(REPEATED EXPOSURE) - Category 1 CORROSIVE TO METALS - Category 1 ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION - Category 1		
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### Section 11. Toxicological information

		EYE IRRITATION - Category 2A
		TOXIC TO REPRODUCTION - Category 2
		AQUATIC HAZARD (ACUTE) - Category 1
		AQUATIC HAZARD (LONG-TERM) - Category 1
Aluminium powder (stabilized)	CAS: 7429-90-5	FLAMMABLE SOLIDS - Category 1
		SUBSTANCES AND MIXTURES, WHICH IN
		CONTACT WITH WATER, EMIT FLAMMABLE
	0.4.0, 0.5.00, 0.5.0	GASES - Category 2
Epoxy Resin (700 <mw<=1100)< td=""><td>CAS: 25036-25-3</td><td>SKIN IRRITATION - Category 2</td></mw<=1100)<>	CAS: 25036-25-3	SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
Dhan al matteriation at al	040,00540.00.4	SKIN SENSITIZATION - Category 1B
Phenol, methylstyrenated	CAS: 68512-30-1	SKIN IRRITATION - Category 2
		SKIN SENSITIZATION - Category 1B
arizatelling cilies, respirable neurost (<10	CAS: 14808-60-7	AQUATIC HAZARD (LONG-TERM) - Category 3 CARCINOGENICITY - Category 1A
crystalline silica, respirable powder (<10 microns)	CAS. 14808-00-7	CARCINOGENICITY - Calegory TA
titanium dioxide	CAS: 13463-67-7	CARCINOGENICITY - Category 2
2-methylpropan-1-ol	CAS: 78-83-1	FLAMMABLE LIQUIDS - Category 3
	CAS. 76-03-1	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
Hydrocarbons, C10-C13, n-alkanes,	CAS: 64742-48-9	FLAMMABLE LIQUIDS - Category 4
isoalkanes, cyclics, < 2% aromatics		
		ASPIRATION HAZARD - Category 1
ethylbenzene	CAS: 100-41-4	FLAMMABLE LIQUIDS - Category 2
		ACUTE TOXICITY (inhalation) - Category 4
		CARCINOGENICITY - Category 2
		ASPIRATION HAZARD - Category 1
		AQUATIC HAZARD (LONG-TERM) - Category 3
Octadecanamide, N,N'-1,6-hexanediylbis	CAS: 55349-01-4	SKIN SENSITIZATION - Category 1B
[12-hydroxy-		
		AQUATIC HAZARD (LONG-TERM) - Category 4

### Section 12. Ecological information

#### A. <u>Ecotoxicity</u>

Product/ingredient name	Result	Species	Exposure
bis-[4-(2,3-epoxipropoxi) phenyl]propane	Acute LC50 1.8 mg/l Fresh water	Daphnia - <i>daphnia magna</i>	48 hours
	Chronic NOEC 0.3 mg/l	Daphnia	21 days
nonylphenols	Acute EC50 0.044 mg/l	Crustaceans - <i>Moina</i>	48 hours
		macrocopa	
	Acute LC50 0.221 mg/l	Fish	96 hours
titanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
-	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-

#### B. Persistence and degradability

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### Section 12. Ecological information

Product/ingredient name	Test	Result		Dose		Inoculum
ethylbenzene	-	79 % - Rea	adily - 10 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
ቓis-[4-(2,3-epoxipropoxi) phenyl]propane	-		-		Not rea	dily
Xylene ethylbenzene	-		-		Readily Readily	

#### C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
<b>X</b> ylene	3.12	7.4 to 18.5	Low
nonylphenols	5.4	251.19	Low
Phenol, methylstyrenated	3.627	-	Low
2-methylpropan-1-ol	1	-	Low
ethylbenzene	3.6	79.43	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.
В.	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

### 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.	(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 $\leq$ 5 L or $\leq$ 5 kg.
ΙΑΤΑ	<ul> <li>The environmentally hazardous substance mark may appear if required by other transportation regulations.</li> </ul>

# 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.		
	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 Chemical Substances and Physical Factors**

The following components have an OEL:

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### Section 15. Regulatory information

L	U	<i>,</i>				
L	Fystalline silica, respirable powder (>10 microns) Talc , not containing asbestiform fibres Xylene Aluminium powder (stabilized) crystalline silica, respirable powder (<10 microns) titanium dioxide 2-methylpropan-1-ol ethylbenzene					
	ISHA Enforcement Regs Annex 19 (Exposure standards established for harmful factors)	: None of the components are listed.				
	ISHA Enforcement Regs Annex 21 (Harmful factors subject to Work Environment Measurement)	: The following components are listed: quartz, talc / soapstone, xylene, aluminum and its compounds, quartz, titanium dioxide, isobutyl alcohol, ethyl benzene				
	ISHA Enforcement Regs Annex 22 (Harmful Factors Subject to Special Health Check- up)	: The following components are listed: Xylene, Aluminum and its compounds, Isobutyl alcohol, Ethyl benzene				
	Standard of Industrial Safety and Health Annex 12 (Hazardous substances subject to control)	: The following components are listed: xylene, aluminum and its compounds, titanium dioxide, isobutyl alcohol, ethyl benzene				
	B. Regulation according to Chemicals Control Act					
	Article 11 (TRI)	<ul> <li>The following components are listed: Xylene including o-,m-,p- isomer, Branched</li> <li>4-nonylphenol, Aluminium and its compounds, Ethylbenzene</li> </ul>				
	Article 18 Prohibited (K- Reach Article 27)	: None of the components are listed.				
	Article 19 Subject to authorization (K-Reach Article 25)	: None of the components are listed.				
	Article 20 Restricted (K- Reach Article 27)	: The following components are listed: nonylphenols				
	Article 20 Toxic Chemicals (K-Reach Article 20)	: Foxic				
	Korea inventory	: All components are listed or exempted.				
	Article 39 (Accident Precaution Chemicals)	: The following components are listed: nonylphenols				
	C. <u>Dangerous Materials</u> <u>Safety Management Act</u>	<ul> <li>Class: Class 4 - Flammable Liquid</li> <li>Item: 4. Class 2 petroleums - Water-insoluble liquid</li> <li>Threshold: 1000 L</li> <li>Danger category: III</li> <li>Signal word: Contact with sources of ignition prohibited</li> </ul>				

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### Section 15. Regulatory information

- D. <u>Wastes regulation</u>: Dispose of contents and container in accordance with all local, regional, national and international regulations.
   E. <u>Regulation according to other foreign laws</u>
  - Safety, health and environmental regulations specific for the product

### 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 Inf Retrieval) ECOTOX Database System.	ormation
В.	Date of issue/Date of revision	3/14/2024	
С.	Version	24	
	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.