SAFETY DATA SHEET



Date of issue 5/18/2021 (month/day/year)

Version 2

Section 1. Chemical product and company identification

A. Product name	: SIGMACOVER 410 Y BASE RAL 7046
Product code	: 00427063

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 information	: PPG SSC (680-090) 19, Yeocheon-ro 217beon-gil, Nam-gu, Ulsan, Korea Tel: +82-52-210-8222 Korea MSDS@DBC COM
Email Address	Korea.MSDS@PPG.COM
Emergency telephone number:	: +82-52-210-8222

Section 2. Hazards identification

A. Hazard classification	: FLAMMABLE LIQUIDS - Category 3
	SKIN CORROSION/IRRITATION - Category 2
	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
	SKIN SENSITIZATION - Category 1
	CARCINOGENICITY - Category 1A
	TOXIC TO REPRODUCTION - Category 2
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
	AQUATIC HAZARD (ACUTE) - Category 1
	AQUATIC HAZARD (LONG-TERM) - Category 1
This product is closelfied in	econdence with the Industrial Sefety and Legith Ast and the Chemical Control Ast

This product is classified in accordance with the Industrial Safety and Health Act and the Chemical Control Act.

B. GHS label elements, including precautionary statements

Symbol



Signal word

: Danger

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Section 2. Hazards identification

Hazard statements	 6 - Flammable liquid and vapor. 5 - Causes skin irritation. 7 - May cause an allergic skin reaction. 9 - Causes serious eye irritation. 0 - May cause cancer. 1 - Suspected of damaging fertility or the utility of a system (CNS), kidneys, liver) 0 - Very toxic to aquatic life with long lastir 	prolonged or repeated exposure.
Precautionary statements		
Prevention	 Obtain special instructions before use. Wear protective gloves, protective clotl Keep away from heat, hot surfaces, sp rces. No smoking. Use explosion-proof electrical, ventilati Use non-sparking tools. Take action to prevent static discharge Avoid release to the environment. 	arks, open flames and other ignition ng or lighting equipment.
	0 - Do not breathe vapor.4 - Wash thoroughly after handling.	
Response	 1 - Collect spillage. 8 + P313 - IF exposed or concerned: Get 12 + P364 - Take off contaminated clothing 2 + P352 - IF ON SKIN: Wash with plenty 3 + P313 - If skin irritation or rash occurs: 5 + P351 + P338 - IF IN EYES: Rinse cau nove contact lenses, if present and easy to 7 + P313 - If eye irritation persists: Get me 	and wash it before reuse. of water. Get medical advice or attention. tiously with water for several minutes. do. Continue rinsing.
Storage	3 + P235 - Store in a well-ventilated place.	. Keep cool.
Disposal	1 - Dispose of contents and container in a onal and international regulations.	ccordance with all local, regional,
C. Other hazards which do not result in classification	ses digestive tract burns. Prolonged or re se irritation.	peated contact may dry skin and

Section 3. Composition/information on ingredients

CAS number/other identifiers

CAS number	: Not applicable.
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Chemical name	Common name	Identifiers	%
vystalline silica, respirable powder (<10	QUARTZ (<10 microns)	CAS: 14808-60-7	30 - <40
microns)			
silicon dioxide	SILICA	CAS: 7631-86-9	5 - <10
bis-[4-(2,3-epoxipropoxi)phenyl]propane	Bisphenol A diglycidyl ether	CAS: 1675-54-3	5 - <10
crystalline silica, respirable powder (>10	QUARTZ (>10 microns)	CAS: 14808-60-7	5 - <10
microns)			
Nonylphenols	4-nonylphenol, branched	CAS: 84852-15-3	1 - <5
magnesium oxide	MAGNESIUM OXIDE	CAS: 1309-48-4	1 - <5
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
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Section 3. Composition/information on ingredients

benzyl alcohol titanium dioxide 2-methylpropan-1-ol ethylbenzene carbon black Nonylphenols

- BENZYL ALCOHOL TITANIUM DIOXIDE ISOBUTYL ALCOHOL ETHYLBENZENE CARBON BLACK Phenol, 2-nonyl-, branched
- CAS: 100-51-6
 1 <5</td>

 CAS: 13463-67-7
 1 <5</td>

 CAS: 78-83-1
 1 <5</td>

 CAS: 100-41-4
 0.1 <1</td>

 CAS: 1333-86-4
 0.1 <1</td>

 CAS: 91672-41-2
 0.1 <1</td>

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.
Е.	Notes to physician	:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Specific treatments	:	No specific treatment.
	Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training. 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	: 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	: Fammable 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.

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Section 5. Fire-fighting measures

	Hazardous thermal decomposition products	:	Decomposition products may include the following materials: carbon 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. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
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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

A. Precautions for safe handling
 Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Avoid release to the environment. Refer to special instructions/safety data sheet. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated.

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Section 7. Handling and storage

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 non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. 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
rystalline 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
crystalline 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
magnesium oxide	Ministry of Employment and Labor
°	(Republic of Korea, 1/2020).
	TWA: 10 mg/m ³ 8 hours.
Xylene	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	STEL: 150 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
titanium dioxide	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	TWA: 10 mg/m ³ 8 hours. Form: total dus
	with less than 1% of free SiO2
2-methylpropan-1-ol	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.
carbon black	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	TWA: 3.5 mg/m ³ 8 hours. Form: inhalable
	fraction

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Section 8. Exposure controls/personal protection

	Recommended monitoring procedures	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
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

exposure controls they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

C. Personal protective equipment

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. Chemical splash goggles and face shield.
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
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.

Section 9. Physical and chemical properties

Α.	Appearance		
	Physical state	1	Liquid.
	Color	1	Gray.
В.	Odor	1	Aromatic. [Strong]
С.	Odor threshold	1	Not available.
D.	рН	1	Not applicable.
Ε.	Melting/freezing point	4	Not available.
F.	Boiling point/boiling range	:	>37.78°C (>100°F)
G.	Flash point	4	Closed cup: 34°C (93.2°F)
н.	Evaporation rate	1	Not available.
Т.	Flammability (solid, gas)	:	Not available.
J.	Lower and upper explosive (flammable) limits	:	Greatest known range: Lower: 1.3% Upper: 13% (benzyl alcohol)
Κ.	Vapor pressure	:	Not available.
Ε.	Solubility	1	Insoluble in the following materials: cold water.
	Solubility in water	1	Not available.
Μ.	Vapor density	1	Not available.
Ν.	Relative density	1	1.72
0.	Partition coefficient: n- octanol/water	:	Not applicable.
Ρ.	Auto-ignition temperature	:	Not available.
Q.	Decomposition temperature	:	Not available.
R.	Viscosity	:	Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)
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 metal oxide/oxides

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Section 11. Toxicological information

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

Potential acute health effects

Inhalation	: No known significant effects or critical hazards.
Ingestion	: 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.

Over-exposure signs/symptoms

Inhalation	 Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: stomach pains reduced fetal weight increase in fetal deaths skeletal malformations
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
sílicon dioxide	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat - Male,	>5000 mg/kg	-
		Female		
bis-[4-(2,3-epoxipropoxi)phenyl]propane	LD50 Dermal	Rabbit	23000 mg/kg	-
	LD50 Oral	Rat	15000 mg/kg	-
Nonylphenols	LD50 Dermal	Rabbit	2.14 g/kg	-
	LD50 Oral	Rat	1300 mg/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	-
benzyl alcohol	LC50 Inhalation Dusts and mists	Rat	>4178 mg/m³	4 hours
	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	1.23 g/kg	_
titanium dioxide	LC50 Inhalation Dusts and	Rat	>6.82 mg/l	4 hours
	mists			
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	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	-
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	-
carbon black	LD50 Oral	Rat	>10 g/kg	-

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

Irritation/Corrosion

es - Redness of the njunctivae es - Mild irritant	Rabbit	0.4	24 hours	-
es - Mild irritant	Dabbit			
	Rabbit	-	24 hours	-
in - Erythema/Eschar	Rabbit	0.8	4 hours	-
in - Edema	Rabbit	0.5	4 hours	-
in - Mild irritant	Rabbit	-	4 hours	-
in - Ervthema/Eschar	Rabbit	4	-	-
in - Moderate irritant	Rabbit	-	24 hours 500	-
			mg	
cin Cin	n - Edema n - Mild irritant n - Erythema/Eschar	n - Edema Rabbit n - Mild irritant Rabbit n - Erythema/Eschar Rabbit	n - Edema Rabbit 0.5 n - Mild irritant Rabbit - n - Erythema/Eschar Rabbit 4	n - EdemaRabbit0.54 hoursn - Mild irritantRabbit-4 hoursn - Erythema/EscharRabbit4-n - Moderate irritantRabbit-24 hours 500

: There are no data available on the mixture itself.
: There are no data available on the mixture itself.
: There are no data available on the mixture itself.

Sensitization

Product/ingredient name	Route of exposure	Species	Result			
bis-[4-(2,3-epoxipropoxi) phenyl]propane	skin	Mouse	Sensitizing			
Conclusion/Summary						
Skin :	There are no data a	available on the mixture itself.				
Respiratory :	There are no data a	available on the mixture itself.				
<u>Carcinogenicity</u>	Summary : There are no data available on the mixture itself.					
<u>Reproductive toxicity</u> 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.				
<u>Specific target organ toxicity (single exposure)</u>						

Section 11. Toxicological information

Name	Classification	Route of exposure	Target organs
Xylene 2-methylpropan-1-ol	Category 3 Category 3	-	Narcotic effects 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

Aspiration hazard

Name	Result
benzyl alcohol	ASPIRATION HAZARD - Category 2
2-methylpropan-1-ol	ASPIRATION HAZARD - Category 2
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	Common name	CAS #	GHS Classification
erystalline silica, respirable powder (<10 microns)	QUARTZ (<10 microns)	CAS: 14808-60-7	CARCINOGENICITY - Category 1A
silicon dioxide	SILICA	CAS: 7631-86-9	Not classified.
bis-[4-(2,3-epoxipropoxi) phenyl]propane	Bisphenol A diglycidyl ether	CAS: 1675-54-3	SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 SKIN SENSITIZATION - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2
crystalline silica, respirable	QUARTZ (>10 microns)	CAS:	CARCINOGENICITY - Category 1A
<u>.</u>	•	<u>.</u>	Korea (GHS) Page: 10/16

Section 11. Toxicological information

magnesium oxide MAGNESIUM OXIDE CAS: 1309-48-4 AQUATIC HAZARD (LONG-TERM) Category 1 Epoxy Resin (700 <mw< td=""> EPOXY RESIN (AVERAGE MOLECULAR WEIGHT >700 - <1100) CAS: 1309-48-4 SKIN CORROSION/IRRITATION - Category 2 Xylene XYLENES CAS: 1330-20-7 SKIN CORROSION/IRRITATION - Category 2 Xylene XYLENES CAS: 1330-20-7 FLAMMABLE LIQUIDS - Category 1 FLAMMABLE LIQUIDS - Category 3 benzyl alcohol BENZYL ALCOHOL CAS: 100-51-6 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (malaliton) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (oral) - Category 2 SERIOUS EYE DAMAGE/ EYE RRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE RRITATION - Category 2 ASPIRATION HAZARD - Category 2 ASPIRATION HAZARD - Category 2 ASPIRATION HAZARD - Category 2 SERIOUS EYE DAMAGE/ EYE RRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE RRITATION - Category 3 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE RRITATION - Category 1 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE RRITATION - Category 1 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE RRITATION - Category 1 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE RRITATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract ritation) - Category 1 SPECIFIC TARGET ORGAN TOXICITY </mw<>	powder (>10 microns)	1	14808-60-7	
magnesium oxide MAGNESIUM OXIDE SKIN CORROSION/IRRITATION - Category 2 magnesium oxide MAGNESIUM OXIDE CAS: 1309-48.4 SKIN CORROSION/IRRITATION - Category 2 Epoxy Resin (700 EPOXY RESIN (AVERAGE MOLECULAR WEIGHT >700 - <1100)	Nonylphenols	4-nonylphenol, branched		CORROSIVE TO METALS - Category 1
magnesium oxideMAGNESIUM OXIDECategory 1 RRITATION - Category 2 TOXIC TO REPRODUCTION - Category 2 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 Not classified.Epoxy Resin (700 <mw< td="">EPOXY RESIN (AVERAGE MOLECULAR WEIGHT >700 - <1100)</mw<>				
magnesium oxide MAGNESIUM OXIDE CAS: 1309-48-4 IRRITATION - Category 2 AQUATIC HAZARD (LONG-TERM) - Category 1 NOLEGULAR WEIGHT >700 - <1100)				Category 1
magnesium oxide MAGNESIUM OXIDE CAS: AQUATIC HAZARD (LONG-TERM) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 Not classified. Epoxy Resin (700 EPOXY RESIN (AVERAGE MOLECULAR WEIGHT >700 - <1100)				
magnesium oxide MAGNESIUM OXIDE CAS: 1309-48-4 Epoxy Resin (700 EPOXY RESIN (AVERAGE MOLECULAR WEIGHT >700 - <1100)				
magnesium oxide MAGNESIUM OXIDE CAS: 1309-48-4 Not classified. Epoxy Resin (700 <mw< td=""> EPOXY RESIN (AVERAGE MOLECULAR WEIGHT >700 - <1100)</mw<>				AQUATIC HAZARD (ACUTE) - Category 1
Epoxy Resin (700 <mw< td=""> EPOXY RESIN (AVERAGE MOLECULAR WEIGHT >700 - <1100)</mw<>				
Epoxy Resin (700 <mw< td=""> EPOXY RESIN (AVERAGE MOLECULAR WEIGHT >700 - <1100)</mw<>	magnesium oxide	MAGNESIUM OXIDE		Not classified.
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ASPIRATION HAZARD - Category 2				(SINGLE EXPOSURE) (Narcotic effects) -
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Section 11. Toxicological information

	U				
ethylbenzene	ETHYLBENZENE	CAS: 100-41-4	FLAMMABLE LIQUIDS - Category 2		
			ACUTE TOXICITY (inhalation) - Category 4		
			CARCINOGENICITY - Category 2		
			ASPIRATION HAZARD - Category 1		
carbon black	CARBON BLACK	CAS:	CARCINOGENICITY - Category 2		
		1333-86-4			
Nonylphenols	Phenol, 2-nonyl-, branched	CAS:	CORROSIVE TO METALS - Category 1		
		91672-41-2			
			ACUTE TOXICITY (oral) - Category 4		
			SKIN CORROSION/IRRITATION -		
			Category 1		
			SERIOUS EYE DAMAGE/ EYE		
			IRRITATION - Category 1		
			TOXIC TO REPRODUCTION - Category 2		
			AQUATIC HAZARD (ACUTE) - Category 1		
			AQUATIC HAZARD (LONG-TERM) -		
	•	-	Category 1		

Section 12. Ecological information

A. Ecotoxicity

Product/ingredient name	Result	Species	Exposure
sílicon dioxide	Acute LC50 >10000 mg/l	Fish	96 hours
bis-[4-(2,3-epoxipropoxi) phenyl]propane	Acute LC50 1.8 mg/l Fresh water	Daphnia - daphnia magna	48 hours
	Chronic NOEC 0.3 mg/l	Daphnia	21 days
Nonylphenols	Acute EC50 0.04 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 0.044 mg/l	Crustaceans - Moina macrocopa	48 hours
	Acute LC50 0.221 mg/l	Fish	96 hours
titanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
ethylbenzene	Acute LC50 150 to 200 mg/l Fresh water	Fish	96 hours
Nonylphenols	Acute LC50 0.017 mg/l	Fish - Pleuronectes americanus	96 hours

B. Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
bis-[4-(2,3-epoxipropoxi) phenyl]propane	-	-	Not readily
Xylene	-	-	Readily
benzyl alcohol	-	-	Readily
ethylbenzene	-	-	Readily

C. Bioaccumulative potential

Section 12. Ecological information

	-		
Product/ingredient name	LogPow	BCF	Potential
Nonylphenols	5.4	251.19	low
Xylene	3.12	7.4 to 18.5	low
benzyl alcohol	0.87	-	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 com with the requirements of environmental protection and waste disposal legislatic and any regional local authority requirements. Dispose of surplus and non- recyclable products via a licensed waste disposal contractor. Waste should no disposed of untreated to the sewer unless fully compliant with the requirements all authorities with jurisdiction. Waste packaging should be recycled. Incinerat 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	II	Ξ
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, 4-nonylphenol, branched)	Not applicable.

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Section 14. Transport information

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	: 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.	
	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 rystalline silica, respirable crystalline silica, respirable magnesium oxide Xylene titanium dioxide 2-methylpropan-1-ol ethylbenzene carbon black	powder (<10 microns)
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, silica, quartz, magnesium oxide, xylene, titanium dioxide, isobutyl alcohol

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Section 15. Regulatory information

	ISHA Enforcement Regs Annex 22 (Harmful Factors Subject to Special Health Check- up)	:	The following components are listed: Xylene, Isobutyl alcohol			
	Standard of Industrial Safety and Health Annex 12 (Hazardous substances subject to control)	:	The following components are listed: magnesium oxide, xylene, titanium dioxide, isobutyl alcohol			
В.	Regulation according to Chemicals Control Act					
	CCA Article 11 (TRI)	:	The following components are listed: Branched 4-nonylphenol, Xylene including o-, m-,p- isomer, Ethylbenzene			
	CCA Article 18 Prohibited (K-Reach Article 27)	:	None of the components are listed.			
	CCA Article 19 Subject to authorization (K- Reach Article 25)	:	None of the components are listed.			
	CCA Article 20 Restricted (K-Reach Article 27)	:	The following components are listed: nonylphenol, nonylphenol			
	CCA Article 20 Toxic Chemicals (K-Reach Article 20)	:	Not applicable			
	Korea inventory	1	All components are listed or exempted.			
	CCA 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	1	Dispose of contents and container in accordance with all local, regional, national and international regulations.			
Е.	Regulation according to other foreign laws					
	Safety, health and environmental regulations specific for the product	:	No known specific national and/or regional regulations applicable to this product (including its ingredients).			

Product name SIGMACOVER 410 Y BASE RAL 7046

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.	Date of issue/Date of revision	:	5/18/2021
C.	Version	1	2
	Prepared by	1	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.