SAFETY DATA SHEET



Date of issue 7/19/2021 (month/day/year)

Version 1.01

Section 1. Chemical product and company identification

A. Product name	: 🕱 GMACOVER 555 BASE GREY
Product code	: 00445495

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 Korea MSDS@DDC 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 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 1A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
	AQUATIC HAZARD (LONG-TERM) - Category 3

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		 H226 - Flammable liquid and vapor. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H318 - Causes serious eye damage. H332 - Harmful if inhaled. H335 - May cause respiratory irritation. H350 - May cause cancer. H372 - Causes damage to organs through prolonged or repeated exposure. (central nervous system (CNS), kidneys, liver) H412 - Harmful to aquatic life with long lasting effects.
	Precautionary statements	S	
	Prevention	:	 P201 - Obtain special instructions before use. P280 - Wear protective gloves, protective clothing and eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P241 - Use explosion-proof electrical, ventilating or lighting equipment. P242 - Use non-sparking tools. P243 - Take action to prevent static discharges. P273 - Avoid release to the environment. P260 - Do not breathe vapor. P270 - Do not eat, drink or smoke when using this product. P264 - Wash thoroughly after handling.
	Response	:	 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. P362 + P364 - Take off contaminated clothing and wash it before reuse. P302 + P352 - IF ON SKIN: Wash with plenty of water. P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention. P305 + P351 + P338, 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.
	Storage	1	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.
C.	Other hazards which do not result in classification	:	Prolonged or repeated contact may dry skin and cause irritation.

Section 3. Composition/information on ingredients

CAS number/other identifiers

CAS number

: Not applicable.

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Section 3. Composition/information on ingredients

Chemical name	Common name	Identifiers	%
Talc, not containing asbestiform fibers	Talc, non-asbestos form	CAS: 14807-96-6	10 -<20
4-methylpentan-2-one	4-METHYLPENTAN-2-ONE / METHYL ISOBUTYL KETONE	CAS: 108-10-1	10 -<20
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin	EPOXY RESIN	CAS: 25068-38-6	10 -<20
Propane, 1-(ethenyloxy)-2-methyl-, polymer with chloroethene	VINYL RESIN	CAS: 25154-85-2	10 -<20
Xylene	XYLENES	CAS: 1330-20-7	10 -<20
Mica-group minerals	MICA	CAS: 12001-26-2	10 -<20
Epoxy Resin (700 <mw<=1100)< td=""><td>EPOXY RESIN (AVERAGE MOLECULAR WEIGHT >700 - <1100)</td><td>CAS: 25036-25-3</td><td>5 - <10</td></mw<=1100)<>	EPOXY RESIN (AVERAGE MOLECULAR WEIGHT >700 - <1100)	CAS: 25036-25-3	5 - <10
crystalline silica, respirable powder (<10 microns)	QUARTZ (<10 microns)	CAS: 14808-60-7	5 - <10
1-methoxy-2-propanol	PROPYLENE GLYCOL MONOMETHYL ETHER	CAS: 107-98-2	1 - <5
titanium dioxide	TITANIUM DIOXIDE	CAS: 13463-67-7	1 - <5
ethylbenzene	ETHYLBENZENE	CAS: 100-41-4	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	:	Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
В.	Skin contact	:	Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
C.	Inhalation	:	Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
D.	Ingestion	:	If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.
Е.	Notes to physician	:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Specific treatments	:	No specific treatment.
	Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training. 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 harmful 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 halogenated compounds 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	4	Avoid dispersal of spilled material and runoff and contact with soil waterways

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.

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.

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

A. Precautions for safe Put on appropriate personal protective equipment (see Section 8). Persons with a handling history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

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
Talc, not containing asbestiform fibers	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	TWA: 2 mg/m ³ 8 hours. Form: fibers
4-methylpentan-2-one	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	STEL: 75 ppm 15 minutes.
	TWA: 50 ppm 8 hours.
Xylene	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	STEL: 150 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
Mica-group minerals	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
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Section 8. Exposure controls/personal protection

crystalline silica, respirable po 1-methoxy-2-propanol titanium dioxide	owder (<10 microns)	Ministry of Employment and Labor (Republic of Korea, 1/2020). TWA: 0.05 mg/m ³ 8 hours. Form: Respirable fraction Ministry of Employment and Labor (Republic of Korea, 1/2020).
		Respirable fraction Ministry of Employment and Labor
titanium dioxide		
titanium dioxide		STEL: 150 ppm 15 minutes.
		TWA: 100 ppm 8 hours. Ministry of Employment and Labor
		(Republic of Korea, 1/2020).
		TWA: 10 mg/m ³ 8 hours. Form: total dust
ethylbenzene		with less than 1% of free SiO2 Ministry of Employment and Labor
		(Republic of Korea, 1/2020).
		STEL: 125 ppm 15 minutes.
		TWA: 100 ppm 8 hours.
Recommended : monitoring procedures	atmosphere or biological monitoring of the ventilation or other control mea protective equipment. Reference sho	ith exposure limits, personal, workplace may be required to determine the effectiveness asures and/or the necessity to use respiratory ould be made to appropriate monitoring idance documents for methods for the ces will also be required.
B. Appropriate engineering : controls	ventilation or other engineering contr contaminants below any recommend	Use process enclosures, local exhaust ols to keep worker exposure to airborne led or statutory limits. The engineering controls concentrations below any lower explosive in equipment.
Environmental : exposure controls	they comply with the requirements of	rocess equipment should be checked to ensure f environmental protection legislation. In some ineering modifications to the process ce emissions to acceptable levels.
C. Personal protective equipm	ent	
	hazards of the product and the safe workers are exposed to concentration appropriate, certified respirators. Us respirator complying with an approve necessary.	on known or anticipated exposure levels, the working limits of the selected respirator. If ons above the exposure limit, they must use se a properly fitted, air-purifying or air-fed ed standard if a risk assessment indicates this is
	Chemical splash goggles.	
Hand protection :	be worn at all times when handling of this is necessary. Considering the p check during use that the gloves are should be noted that the time to bread different for different glove manufact	es complying with an approved standard should chemical products if a risk assessment indicates parameters specified by the glove manufacturer, e still retaining their protective properties. It akthrough for any glove material may be turers. In the case of mixtures, consisting of ime of the gloves cannot be accurately
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 discharges, clothing should include anti-static overalls, boots and gloves.
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Section 9. Physical and chemical properties

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

Α.	Appearance									
	Physical state	:	Liquid.							
	Color	1	Not available.							
В.	Odor	:	Characteristic.							
С.	Odor threshold	:	Not available.							
D.	рН	:	Not applicable.							
Ε.	Melting/freezing point	:	Not available.							
F.	Boiling point/boiling range	:	>37.78°C (>100°F)							
G.	Flash point	:	Closed cup: 25°C (7	7°F)						
н.	Evaporation rate	:	Not available.							
Т.	Flammability (solid, gas)	:	Not available.							
J.	Lower and upper explosive (flammable)	:	Greatest known rang	ge: Lower:	1.48%	Upper	: 13.74	% (1 - m	ethoxy-2-p	oropanol)
	limits									
к.	limits Vapor pressure	:		Vapo	r Pressu	ure at :	20°C	V	apor press	sure at 50°C
K.		:	Ingredient name	Vapo mm Hg	r Pressı kPa	ure at : Meti		Va mm Hg	apor press kPa	sure at 50°C Method
K.		:	Ingredient name 4-methylpentan-2-one		1			mm		
				mm Hg	kPa 2.1	Meth	hod	mm		
	Vapor pressure		4-methylpentan-2-one	mm Hg	kPa 2.1	Meth	hod	mm		
L.	Vapor pressure Solubility		4-methylpentan-2-one Insoluble in the follow	mm Hg	kPa 2.1	Meth	hod	mm		
L. M.	Vapor pressure Solubility Solubility in water		4-methylpentan-2-one Insoluble in the follow Not available.	mm Hg	kPa 2.1	Meth	hod	mm		
L. M. N.	Vapor pressure Solubility Solubility in water Vapor density		4-methylpentan-2-one Insoluble in the follow Not available. Not available.	mm Hg	kPa 2.1	Meth	hod	mm		
L. M. N. O.	Vapor pressure Solubility Solubility in water Vapor density Relative density Partition coefficient: n- octanol/water Auto-ignition		4-methylpentan-2-one Insoluble in the follow Not available. Not available. 1.2	mm Hg	kPa 2.1	Meth	hod	mm		
L. M. N. O.	Vapor pressure Solubility Solubility in water Vapor density Relative density Partition coefficient: n- octanol/water		4-methylpentan-2-one Insoluble in the follow Not available. Not available. 1.2 Not applicable.	mm Hg	kPa 2.1 rials: col	Meth	nod er.	mm	kPa	

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Section 9. Physical and chemical properties

- **R. Viscosity**
- : 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	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 sulfur oxides halogenated compounds metal oxide/ oxides

Section 11. Toxicological information

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

Potential acute health effects

Inhalation	: Harmful if inhaled. 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 signs/symptoms

Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Ingestion	: Adverse symptoms may include the following: stomach pains
Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur
Eye contact	: Adverse symptoms may include the following: pain watering redness

B. Health hazards

Acute toxicity

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Section 11. Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
4-methylpentan-2-one	LC50 Inhalation Vapor	Rat	12.3 mg/l	4 hours
, , , , , , , , , , , , , , , , , , ,	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	2.08 g/kg	-
reaction product: bisphenol-A-	LD50 Dermal	Rabbit	>2 g/kg	-
(epichlorhydrin); epoxy resin		Det		
Ma La sua	LD50 Oral	Rat	>2 g/kg	-
Xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 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	-
1-methoxy-2-propanol	LC50 Inhalation Vapor	Rat	>7000 ppm	6 hours
	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	5.2 g/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	-
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

Result	Species	Score	Exposure	Observation
Skin - Moderate irritant	Rabbit	-	-	-
Eyes - Moderate irritant	Rabbit	-	-	-
	Rabbit	-	100 mg	-
Skin - Moderate irritant	Rabbit	-	24 hours 500 UI	-
Skin - Severe irritant	Rabbit	-	24 hours 2	-
Skin - Moderate irritant	Rabbit	-	mg 24 hours 500 mg	-
	Skin - Moderate irritant Eyes - Moderate irritant Eyes - Mild irritant Skin - Moderate irritant Skin - Severe irritant	Skin - Moderate irritantRabbitEyes - Moderate irritantRabbitEyes - Mild irritantRabbitSkin - Moderate irritantRabbitSkin - Severe irritantRabbit	Skin - Moderate irritantRabbit-Eyes - Moderate irritantRabbit-Eyes - Mild irritantRabbit-Skin - Moderate irritantRabbit-Skin - Severe irritantRabbit-	Skin - Moderate irritantRabbit-Eyes - Moderate irritantRabbitEyes - Mild irritantRabbit-100 mgSkin - Moderate irritantRabbit-24 hours 500Skin - Severe irritantRabbit-24 hours 2Skin - Moderate irritantRabbit-24 hours 2

<u>conclusion/Summary</u>	
Skin	: There are no data available on the mixture itself.
Eyes	: There are no data available on the mixture itself.

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

Sensitization

Product/ingredient name	Route of exposure	Species	Result
reaction product: bisphenol- A-(epichlorhydrin); epoxy resin	skin	Mouse	Sensitizing
Conclusion/Summary Skin : There are no data available on the mixture itself. Respiratory : There are no data available on the mixture itself.			

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Section 11. Toxicological information

Product name SIGMACOVER 555 BASE GREY

Mutagenicity

Conclusion/Summary	: There are no data available on the mixture itself.
Carcinogenicity Conclusion/Summary	: There are no data available on the mixture itself.
Reproductive toxicity Conclusion/Summary	: There are no data 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 fibers	Category 3	-	Respiratory tract irritation
4-methylpentan-2-one	Category 3	-	Respiratory tract irritation
Xylene 1-methoxy-2-propanol	Category 3 Category 3	-	Narcotic effects 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
ethylbenzene	ASPIRATION HAZARD - Category 1

Potential chronic health effects

General	: Causes damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity Mutagenicity Reproductive toxicity	 May cause cancer. Risk of cancer depends on duration and level of exposure. No known significant effects or critical hazards. No known significant effects or critical hazards.

Additional information

Product name SIGMACOVER 555 BASE GREY

Section 11. Toxicological 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
Talc, not containing asbestiform fibers	CAS: 14807-96-6	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) -
4-methylpentan-2-one	CAS: 108-10-1	Category 3 FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) -
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin	CAS: 25068-38-6	Category 3 SKIN CORROSION/IRRITATION - Category 2
		SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 SKIN SENSITIZATION - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2
Propane, 1-(ethenyloxy)-2-methyl-, polymer with chloroethene	CAS: 25154-85-2	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
Xylene	CAS: 1330-20-7	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
Mica-group minerals Epoxy Resin (700 <mw<=1100)< td=""><td>CAS: 12001-26-2 CAS: 25036-25-3</td><td>Not classified. SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 SKIN SENSITIZATION - Category 1</td></mw<=1100)<>	CAS: 12001-26-2 CAS: 25036-25-3	Not classified. SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 SKIN SENSITIZATION - Category 1
crystalline silica, respirable powder (<10 microns)	CAS: 14808-60-7	CARCINOGENICITY - Category 1A
1-methoxy-2-propanol	CAS: 107-98-2	FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
titanium dioxide ethylbenzene	CAS: 13463-67-7 CAS: 100-41-4	CARCINOGENICITY - Category 2 FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 2 ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 3

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Section 12. Ecological information

A. Ecotoxicity

Product/ingredient name	Result	Species	Exposure
4-methylpentan-2-one	Acute LC50 >179 mg/l	Fish	96 hours
reaction product: bisphenol- A-(epichlorhydrin); epoxy resin	Chronic NOEC 0.3 mg/l	Daphnia	21 days
1-methoxy-2-propanol	Acute LC50 23300 mg/l	Daphnia	48 hours
5 1 1	Acute LC50 >4500 mg/l Fresh water	Fish	96 hours
titanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Acute LC50 150 to 200 mg/l Fresh water	Fish	96 hours
	Chronic NOEC 1 mg/I Fresh water	Daphnia - Ceriodaphnia dubia	-

B. Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
4-methylpentan-2-one reaction product: bisphenol- A-(epichlorhydrin); epoxy resin ethylbenzene		83 % - Readily - 28 days 5 % - 28 days 79 % - Readily - 10 days		-		-
Product/ingredient name	Aquatic half-life	·	Photolysis		Biodeg	radability
4-methylpentan-2-one reaction product: bisphenol- A-(epichlorhydrin); epoxy resin	-		-		Readily Not rea	
Xylene ethylbenzene	-		-		Readily Readily	

C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
4-methylpentan-2-one reaction product: bisphenol- A-(epichlorhydrin); epoxy resin	1.9 2.64 to 3.78	- 31	low low
Xylene 1-methoxy-2-propanol ethylbenzene	3.12 <1 3.6	7.4 to 18.5 - 79.43	low low low

D. Mobility in soil

Soil/water partition : Not available. coefficient (K_{oc})

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.

B. Disposal precautions
 This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	UN	IMDG	ΙΑΤΑ
A. UN number	UN1263	UN1263	UN1263
B. UN proper shipping name	PAINT	PAINT	PAINT
C. Transport hazard class(es)	3	3	3
D. Packing group	III	III	III
Environmental hazards	No.	No.	No.
E. Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

Additional information

- UN: None identified.IMDG: None identified.
- IATA : None identified.

F. Special precaution which a user to be aware of or needs to comply with in connection with transport or transportation

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not applicable. to IMO instruments

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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 Chem	ical Substances and Physical Factors		
	The following components Talc, not containing asbes 4-methylpentan-2-one Xylene Mica-group minerals crystalline silica, respirable 1-methoxy-2-propanol titanium dioxide ethylbenzene	tiform fibers		
	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: talc / soapstone, methyl isobutyl ketone, xylene, mica, quartz, titanium dioxide, ethyl benzene		
	ISHA Enforcement Regs Annex 22 (Harmful Factors Subject to Special Health Check- up)	: The following components are listed: Methyl isobutyl ketone, Xylene, Ethyl benzene		
	Standard of Industrial Safety and Health Annex 12 (Hazardous substances subject to control)	: The following components are listed: methyl isobutyl ketone, xylene, titanium dioxide, ethyl benzene		
в.	Regulation according to (Chemicals Control Act		
	CCA Article 11 (TRI)	: The following components are listed: 4,4'-(1-Methylethylidene) bisphenol polymer with (chloromethyl)oxirane, Xylene including o-,m-,p- isomer, Barium and its compounds, Ethylbenzene		
	CCA Article 18 Prohibited (K-Reach Article 27)	: None of the components are listed.		

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	CCA Article 19 Subject to authorization (K- Reach Article 25)	:	None of the components are listed.
	CCA Article 20 Restricted (K-Reach Article 27)	:	None of the components are listed.
	CCA Article 20 Toxic Chemicals (K-Reach Article 20)	:	Not applicable
	Korea inventory	:	All components are listed or exempted.
	CCA Article 39 (Accident Precaution Chemicals)	:	None of the components are listed.
C.	<u>Dangerous Materials</u> <u>Safety Management Act</u>	:	Class: Class 4 - Flammable Liquid Item: 4. Class 2 petroleums - Water-insoluble liquid Threshold: 1000 L Danger category: III Signal word: Contact with sources of ignition prohibited
D.	Wastes regulation	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Ε.	 <u>Regulation according to other foreign laws</u> 		
	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.	Date of issue/Date of revision	: 7/19/2021
С.	Version	: 1.01
	Prepared by	: EHS
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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.

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