SAFETY DATA SHEET



Date of issue 4/26/2024 (month/day/year)

Version 15

Section 1. Chemical product and company identification

A. Product name	: SIGMACOVER 456 BASE RAL 9006
Product code	: 00318093

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

Product use Use of the substa mixture	 Professional applications, Used by spraying. nce/ : Coating.
Uses advised aga	inst : Product is not intended, labelled or packaged for consumer use.
C. Supplier's or Imp information Email Address	orter's : PPG SSC (680-090) 19, Yeocheon-ro 217beon-gil, Nam-gu, Ulsan, Korea Tel: +82-52-210-8222 Korea.MSDS@PPG.COM
Emergency telep number:	hone : ₩82-52-210-8331

Section 2. Hazards identification

A. Hazard classification	: FLAMMABLE LIQUIDS - Category 3
	ACUTE TOXICITY (inhalation) - Category 4
	SKIN IRRITATION - Category 2
	EYE IRRITATION - Category 2A
	SKIN SENSITIZATION - Category 1
	CARCINOGENICITY - Category 1A
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -
	Category 3
	SPEČIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
	AQUATIC HAZARD (LONG-TERM) - Category 3
This product is clossified in (accordence with the Industrial Sefety 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



Signal word

Symbol

: Danger

Product code 00318093

Date of issue 4/26/2024 (month/day/year)

Product name SIGMACOVER 456 BASE RAL 9006

Section 2. Hazards identification

Hazard statements	 H226 - Flammable liquid and vapor. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H332 - Harmful if inhaled. H336 - May cause drowsiness or dizziness. 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 statement	5
Prevention	 P202 - Do not handle until all safety precautions have been read and understood. P280 - Wear protective gloves, protective clothing and eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P241 - Use explosion-proof electrical, ventilating or lighting equipment. P242 - Use non-sparking tools. P243 - Take action to prevent static discharges. P273 - Avoid release to the environment. P260 - Do not breathe vapor. 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 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.
Storage	 P403 + P233 - Store in a well-ventilated place. Keep container tightly closed. P403 + P235 - Keep cool.
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
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	%
🗲 poxy Resin	EPOXY RESIN	CAS: SUB110652	20 - <30
Xylene	XYLENES	CAS: 1330-20-7	20 - <30
crystalline silica, respirable powder (<10 microns)	QUARTZ (<10 microns)	CAS: 14808-60-7	10 -<20
Talc , not containing asbestiform fibres	Talc, non-asbestos form	CAS: 14807-96-6	5 - <10
Epoxy resin (MW \leq 700)	EPOXY RESIN (AVERAGE MOLECULAR WT < 700)	CAS: 25068-38-6	5 - <10
Aluminium powder (stabilized)	ALUMINUM POWDER	CAS: 7429-90-5	1 - <5
ethylbenzene	ETHYLBENZENE	CAS: 100-41-4	1 - <5
Solvent naphtha (petroleum), heavy arom.	SOLVENT NAPHTHA (PETROLEUM), HEAVY AROMATIC	CAS: 64742-94-5	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)

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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. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
B. Environmental	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways,

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.

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 non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Α.	Precautions for safe handling	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
В.	Conditions for safe	: Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in

storage, including any incompatibilities Store between the following temperatures: 0 to 35 C (32 to 95 F). 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
X ylene	Ministry of Employment and Labor (Republic of Korea, 1/2020). [Xylene (all isomers)] STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours.
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
Talc , not containing asbestiform fibres	Ministry of Employment and Labor (Republic of Korea, 1/2020). TWA: 2 mg/m ³ 8 hours. Form: fibers
Aluminium powder (stabilized)	Ministry of Employment and Labor
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Section 8. Exposure controls/personal protection

	ethylbenzene		(Republic of Korea, 1/2020). TWA: 10 mg/m³ 8 hours. Form: Dust Ministry of Employment and Labor (Republic of Korea, 1/2020). STEL: 125 ppm 15 minutes. TWA: 100 ppm 8 hours.
	Recommended monitoring procedures	:	Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
	Appropriate engineering controls		Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
	Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
C .	Personal protective equip	me	nt
	Respiratory protection		Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.
	Eye protection		Chemical splash goggles.
	Hand protection	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
	Gloves	1	butyl rubber
	Body protection		Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
I	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.

Product code 00318093

Product name SIGMACOVER 456 BASE RAL 9006

Section 9. Physical and chemical properties

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

Lower and upper explosive (flammable) limits Vapor pressure	:	Greatest known ran heavy arom.) Ingredient name		r Press	Upper: 7% (So ure at 20°C Method			troleum), sure at 50° Methoo
Lower and upper explosive (flammable) limits		heavy arom.)	Vapo	r Press	ure at 20°C	Vaj mm	oor press	sure at 50°
Lower and upper explosive (flammable) limits					··· 、			
Lower and upper explosive (flammable)	:		ge: Lower:	0.6% (Upper: 7% (So	olvent na	phtha (pe	troleum),
Flammability (solid, gas)	-	Not available.						
Evaporation rate	:	Not available.						
Flash point	:	Closed cup: 28°C (8	2.4°F)					
Boiling point/boiling range	:	>37.78°C (>100°F)						
Melting/freezing point								
рН	4	Not applicable.						
Odor threshold	1	Not available.						
Odor	1	Aromatic.						
Color	1	Gray.						
Physical state	1	Liquid.						
Appearance								
	Physical state Color Odor Odor threshold pH Melting/freezing point Boiling point/boiling range Flash point Evaporation rate	Physical state:Color:Odor:Odor threshold:pH:Melting/freezing point:Boiling point/boiling:range:Flash point:Evaporation rate:	Physical state: Liquid.Color: Gray.Odor: Aromatic.Odor threshold: Not available.pH: Mot applicable.Melting/freezing point: Not available.Boiling point/boiling: >37.78°C (>100°F)range: Closed cup: 28°C (8Evaporation rate: Not available.	Physical state: Liquid.Color: Gray.Odor: Aromatic.Odor threshold: Not available.pH: Not applicable.Melting/freezing point: Not available.Boiling point/boiling: >37.78°C (>100°F)range:Flash point: Closed cup: 28°C (82.4°F)Evaporation rate: Not available.	Physical state: Liquid.Color: Gray.Odor: Aromatic.Odor threshold: Not available.pH: Not applicable.Melting/freezing point: Not available.Boiling point/boiling: >37.78°C (>100°F)range:Flash point: Closed cup: 28°C (82.4°F)Evaporation rate: Not available.	Physical state: Liquid.Color: Gray.Odor: Aromatic.Odor threshold: Not available.pH: Not applicable.Melting/freezing point: Not available.Boiling point/boiling range: >37.78°C (>100°F)Flash point: Closed cup: 28°C (82.4°F)Evaporation rate: Not available.	Physical state: Liquid.Color: Gray.Odor: Aromatic.Odor threshold: Not available.pH: Mot applicable.Melting/freezing point: Not available.Boiling point/boiling: >37.78°C (>100°F)range:Flash point: Closed cup: 28°C (82.4°F)Evaporation rate: Not available.	Physical state: Liquid.Color: Gray.Odor: Aromatic.Odor threshold: Not available.pH: Mot applicable.Melting/freezing point: Not available.Boiling point/boiling: >37.78°C (>100°F)range:Flash point: Closed cup: 28°C (82.4°F)Evaporation rate: Not available.

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cold water

: Not available.

: Not available.

: Not applicable.

: 1.29

L. So	lubilit	y(ies)
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- Vapor density Μ.
- **Relative density** Ν.
- Partition coefficient: n-0.
- octanol/water **Auto-ignition**
- Ρ. temperature

Ingredient name	°C	°F	Method
Solvent naphtha (petroleum), heavy arom.	220 to 250	428 to 482	ASTM E 659

Not soluble

Decomposition Q. temperature

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

- Viscosity R. Flow time (ISO 2431)
- **Molecular weight** S.
- : Not available.

: Not available.

: Not applicable.

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Vapor pressure at 50°C

Method

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Section 10. Stability and reactivity

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

Section 11. Toxicological information

Α.	Information on the like routes of exposure	y : Not available.
<u>P</u>	otential acute health eff	ects
	Inhalation	: Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
	Ingestion	: Can cause central nervous system (CNS) depression.
	Skin contact	: 🗭 auses 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/syn</u>	iptoms
	Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
	Ingestion	: No specific data.
	Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
	Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
в.	Health hazards	
Ac	ute toxicity	

Section 11. Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
X ylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
Epoxy resin (MW ≤ 700)	LD50 Dermal	Rabbit	>2 g/kg	-
	LD50 Oral	Rat	>2 g/kg	-
Aluminium powder (stabilized)	LC50 Inhalation Dusts and	Rat	>5 mg/l	4 hours
	mists		-	
	LD50 Oral	Rat	>15900 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	-
Solvent naphtha (petroleum), heavy	LC50 Inhalation Dusts and	Rat	>5.2 mg/l	4 hours
arom.	mists		Ŭ	
	LD50 Oral	Rat	>5 g/kg	-

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

Irritation/Corrosion

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

: 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

		exposure		
Epoxy resin (MW \leq 700)		skin	Mouse	Sensitizing
<u>Conclusion/Summary</u> Skin Respiratory	÷		available on the mixture itself. available on the mixture itself.	
<u>Mutagenicity</u> Conclusion/Summary	:	There are no data a	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.	
<u>Teratogenicity</u> Conclusion/Summary	:	There are no data	available on the mixture itself.	

Specific target organ toxicity (single exposure)

Section 11. Toxicological information

Name	Classification	Route of exposure	Target organs
<mark>X</mark> ylene Talc , not containing asbestiform fibres	Category 3 Category 3	-	Narcotic effects Respiratory tract irritation
Solvent naphtha (petroleum), heavy arom.	Category 3	-	Narcotic effects

Specific target organ toxicity (repeated exposure)

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

Aspiration hazard

Name	Result
	ASPIRATION HAZARD - Category 1 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	: May cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: 📈 known significant effects or critical hazards.

Additional information

Folonged 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
₽poxy Resin	CAS: SUB110652	SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		SKIN SENSITIZATION - Category 1B
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
		(REPEATED EXPOSURE) - Category 1
crystalline silica, respirable powder (<10	CAS: 14808-60-7	CARCINOGENICITY - Category 1A
<u>.</u>	۱ <u> </u>	Korea (GHS) Page: 10/15

Section 11. Toxicological information

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microns)		
Talc , not containing asbestiform fibres	CAS: 14807-96-6	SPECIFIC TARGET ORGAN TOXICITY (SINGLE
		EXPOSURE) (Respiratory tract irritation) -
		Category 3
Epoxy resin (MW ≤ 700)	CAS: 25068-38-6	SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		SKIN SENSITIZATION - Category 1B
		AQUATIC HAZARD (LONG-TERM) - Category 2
Aluminium powder (stabilized)	CAS: 7429-90-5	FLAMMABLE SOLIDS - Category 1
		SUBSTANCES AND MIXTURES, WHICH IN
		CONTACT WITH WATER, EMIT FLAMMABLE
		GASES - Category 2
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
Solvent naphtha (petroleum), heavy	CAS: 64742-94-5	FLAMMABLE LIQUIDS - Category 4
arom.		
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE
		EXPOSURE) (Narcotic effects) - Category 3
		ASPIRATION HAZARD - Category 1
		AQUATIC HAZARD (LONG-TERM) - Category 2

Section 12. Ecological information

A. Ecotoxicity

Product/ingredient name	Result	Species	Exposure
Epoxy resin (MW ≤ 700)	Acute LC50 1.8 mg/l	Daphnia	48 hours
ethylbenzene	Chronic NOEC 0.3 mg/l Acute EC50 1.8 mg/l Fresh water	Daphnia Daphnia	21 days 48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
Solvent naphtha (petroleum), heavy arom.	NOEL 0.48 mg/l Fresh water	Daphnia	21 days

B. Persistence and degradability

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

C. Bioaccumulative potential

Section 12. Ecological information

Product/ingredient name	LogPow	BCF	Potential
X ylene	3.12	7.4 to 18.5	Low
Epoxy resin (MW \leq 700)	3	31	Low
ethylbenzene	3.6	79.43	Low
Solvent naphtha	2.8 to 6.5	-	High
(petroleum), heavy arom.			

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

with the requirements of environmental protection and waste disposal legislation any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be dispose untreated to the sewer unless fully compliant with the requirements of all authori with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.	Α.	uthority requirements. Dispose of surplus and non-recyclable sed waste disposal contractor. Waste should not be disposed of ver unless fully compliant with the requirements of all authorities aste packaging should be recycled. Incineration or landfill	Disposal methods :
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B. Disposal precautions
 This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

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

Additional information

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Section 14. Transport 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

Section 15. Regulatory information

A. 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: **X**vlene crystalline silica, respirable powder (<10 microns) Talc, not containing asbestiform fibres Aluminium powder (stabilized) ethylbenzene **ISHA Enforcement Regs** : None of the components are listed. **Annex 19 (Exposure** standards established for harmful factors) **ISHA Enforcement Regs** The following components are listed: xylene, quartz, talc / soapstone, aluminum and ÷. Annex 21 (Harmful its compounds, ethyl benzene factors subject to Work Environment **Measurement**) **ISHA Enforcement Regs** : The following components are listed: Xylene, Aluminum and its compounds, Ethyl Annex 22 (Harmful benzene **Factors Subject to Special Health Check**up)

Product code 00318093

Date of issue 4/26/2024 (month/day/year)

Product name SIGMACOVER 456 BASE RAL 9006

Section 15. Regulatory information

	Standard of Industrial Safety and Health Annex 12 (Hazardous substances subject to control)	:	The following components are listed: xylene, aluminum and its compounds, ethyl benzene		
В.	Regulation according to Chemicals Control Act				
	Article 11 (TRI)	:	The following components are listed: Xylene including o-,m-,p- isomer, Barium and its compounds, 4,4'-(1-Methylethylidene) bisphenol polymer with (chloromethyl) oxirane, Aluminium and its compounds, Ethylbenzene		
	Article 18 Prohibited (K- Reach Article 27)	:	None of the components are listed.		
	Article 19 Subject to authorization (K-Reach Article 25)	:	None of the components are listed.		
	Article 20 Restricted (K- Reach Article 27)	:	None of the components are listed.		
	Article 20 Toxic Chemicals (K-Reach Article 20)	:	Not applicable		
	Korea inventory	:	All components are listed or exempted.		
	Article 39 (Accident Precaution Chemicals)	÷	None of the components are listed.		
C.	Dangerous Materials Safety Management Act	-	Class: Class 4 - Flammable Liquid Item: 4. Class 2 petroleums - Water-insoluble liquid Threshold: 1000 L Danger category: III Signal word: Contact with sources of ignition prohibited		
D.	Wastes regulation	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.		
Е.	Regulation according to c	oth	er 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).		

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	: 4/26/2024
C .	Version	: 15
	Prepared by	: EHS
D.	Other	

Korea (GHS)

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Section 16. Other information

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.