# SAFETY DATA SHEET



#### Date of issue 11/26/2024 (month/day/year)

Version 9.11

### Section 1. Chemical product and company identification

Α.	Product name Product code	: SIGMAPRIME 700 BASE GREY : 00394162
В.	Relevant identified uses	of the substance or mixture and uses advised against
	Product use	: Professional applications, Used by spraying.

		- C.	
	e of the substance/ xture	:	Coating.
Us	es advised against	:	Product is not intended, labelled or packaged for consumer use.
	upplier's or Importer's formation	:	PPG SSC (680-090) 19, Yeocheon-ro 217beon-gil, Nam-gu, Ulsan, Korea Tel: +82-52-210-8222
Er	mail Address		Korea.MSDS@PPG.COM
	nergency telephone umber:	:	+82-52-210-8331

## Section 2. Hazards identification

A. Hazard classification : FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - 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 This product is classified in accordance with the Industrial Safety and Health Act and the Chemical Control Act.	ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - 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 This product is classified in accordance with the Industrial Safety and Health Act and		
		A. Hazard classification	ACUTE TOXICITY (inhalation) - Čategory 4 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - 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 This product is classified in accordance with the Industrial Safety and Health Act and

B. GHS label elements, including precautionary statements



Signal word

**Symbol** 

: Danger

Product code 00394162

Date of issue <sup>11/26/2024</sup> (month/day/year)

Product name SIGMAPRIME 700 BASE GREY

### Section 2. Hazards identification

Hazard statements	<ul> <li>H226 - Flammable liquid and vapor.</li> <li>H315 - Causes skin irritation.</li> <li>H317 - May cause an allergic skin reaction.</li> <li>H318 - Causes serious eye damage.</li> <li>H332 - Harmful if inhaled.</li> <li>H335 - May cause respiratory irritation.</li> <li>H350 - May cause cancer.</li> <li>H372 - Causes damage to organs through prolonged or repeated exposure. (central nervous system (CNS), kidneys, liver)</li> </ul>
Precautionary statements	
Prevention	<ul> <li>P202 - Do not handle until all safety precautions have been read and understood.</li> <li>P280 - Wear protective gloves, protective clothing and eye or face protection.</li> <li>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P241 - Use explosion-proof electrical, ventilating or lighting equipment.</li> <li>P241 - Use explosion-proof electrical, ventilating or lighting equipment.</li> <li>P242 - Use non-sparking tools.</li> <li>P243 - Take action to prevent static discharges.</li> <li>P240 - Ground and bond container and receiving equipment.</li> <li>P260 - Do not breathe vapor.</li> <li>P270 - Do not eat, drink or smoke when using this product.</li> <li>P264 - Wash thoroughly after handling.</li> </ul>
Response	<ul> <li>P370 + P378 - In case of fire: Never use water to extinguish.</li> <li>P308 + P313 - IF exposed or concerned: Get medical advice or attention.</li> <li>P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.</li> <li>P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.</li> <li>P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.</li> <li>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.</li> <li>Immediately call a POISON CENTER or doctor.</li> <li>P321 - Specific treatment (see the label).</li> </ul>
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. Contains a substance that may emit formaldehyde if stored beyond its shelf life and/or during cure at curing temperatures greater than 60C (140F).

## 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	%
crystalline silica, respirable powder (<10 microns)	QUARTZ (<10 microns)	CAS: 14808-60-7	20 - <30
,		EC: 238-878-4	
Talc , not containing asbestiform fibres	Talc, non-asbestos form	CAS: 14807-96-6	20 - <30
		EC: 238-877-9	
Epoxy Resin (700 <mw<=1100)< td=""><td>EPOXY RESIN (AVERAGE MOLECULAR WEIGHT &gt;700 - &lt;1100)</td><td>CAS: 25036-25-3</td><td>10 -&lt;20</td></mw<=1100)<>	EPOXY RESIN (AVERAGE MOLECULAR WEIGHT >700 - <1100)	CAS: 25036-25-3	10 -<20
Xylene	XYLENES	CAS: 1330-20-7 EC: 215-535-7	10 -<20
Cashew, nutshell liq.	CASHEW NUTSHELL LIQUID	CAS: 8007-24-7 EC: 232-355-4	1 - <5
ethylbenzene	ETHYLBENZENE	CAS: 100-41-4 EC: 202-849-4	1 - <5
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	oxirane, mono[(C12-14-alkyloxy)methyl] derivs	CAS: 68609-97-2	1 - <5
		EC: 271-846-8	
Aluminium powder (stabilized)	ALUMINUM POWDER	CAS: 7429-90-5 EC: 231-072-3	1 - <5
Solvent naphtha (petroleum), heavy arom.	SOLVENT NAPHTHA (PETROLEUM), HEAVY AROMATIC	CAS: 64742-94-5	1 - <5
		EC: 265-198-5	
Urea, polymer with formaldehyde, butylated	UREA-FORMALDEHYDE RESIN, BUTYLATED	CAS: 68002-19-7	1 - <5
2-methylpropan-1-ol	ISOBUTYL ALCOHOL	CAS: 78-83-1 EC: 201-148-0	1 - <5
titanium dioxide	TITANIUM DIOXIDE	CAS: 13463-67-7 EC: 236-675-5	0.1 - <1
4-methylpentan-2-one	4-METHYLPENTAN-2-ONE / METHYL ISOBUTYL KETONE	CAS: 108-10-1	0.1 - <1
		EC: 203-550-1	

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

			Koroa (GHS) - Pago: 3/16
D.	Ingestion	:	If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.
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.
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.
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.

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- 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

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### Section 6. Accidental release measures

A. Personal precautions, protective equipment and emergency procedures	-	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
B. Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

C. Methods and materials for containment and cleaning up

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### Section 6. Accidental release measures

Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non- combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

### Section 7. Handling and storage

Α.	Precautions for safe handling	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. 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. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
В.	Conditions for safe storage, including any incompatibilities	Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### Section 8. Exposure controls/personal protection

#### A. Occupational exposure limits **Ingredient name Exposure limits** rystalline silica, respirable powder (<10 microns) ISHA Article 42 (Republic of Korea, 1/2020) TWA 8 hours: 0.05 mg/m<sup>3</sup>. Form: Respirable fraction. Talc , not containing asbestiform fibres ISHA Article 42 (Republic of Korea, 1/2020) TWA 8 hours: 2 mg/m<sup>3</sup> (as asbestos). Form: fibers. ISHA Article 42 (Republic of Korea, **Xylene** Korea (GHS) Page: 5/16

## Section 8. Exposure controls/personal protection

ethylbenzene Aluminium powder (stabilize 2-methylpropan-1-ol titanium dioxide	ed)	<ul> <li>1/2020) [Xylene] STEL 15 minutes: 150 ppm. TWA 8 hours: 100 ppm.</li> <li>ISHA Article 42 (Republic of Korea, 1/2020) STEL 15 minutes: 125 ppm. TWA 8 hours: 100 ppm.</li> <li>ISHA Article 42 (Republic of Korea, 1/2020) TWA 8 hours: 10 mg/m<sup>3</sup>. Form: Dust.</li> <li>ISHA Article 42 (Republic of Korea, 1/2020)</li> </ul>
Aluminium powder (stabilize 2-methylpropan-1-ol	ed)	ISHA Article 42 (Republic of Korea, 1/2020) STEL 15 minutes: 125 ppm. TWA 8 hours: 100 ppm. ISHA Article 42 (Republic of Korea, 1/2020) TWA 8 hours: 10 mg/m <sup>3</sup> . Form: Dust. ISHA Article 42 (Republic of Korea,
Aluminium powder (stabilize 2-methylpropan-1-ol	ed)	1/2020) STEL 15 minutes: 125 ppm. TWA 8 hours: 100 ppm. ISHA Article 42 (Republic of Korea, 1/2020) TWA 8 hours: 10 mg/m <sup>3</sup> . Form: Dust. ISHA Article 42 (Republic of Korea,
2-methylpropan-1-ol	ed)	STEL 15 minutes: 125 ppm. TWA 8 hours: 100 ppm. ISHA Article 42 (Republic of Korea, 1/2020) TWA 8 hours: 10 mg/m <sup>3</sup> . Form: Dust. ISHA Article 42 (Republic of Korea,
2-methylpropan-1-ol	ed)	TWA 8 hours: 100 ppm. <b>ISHA Article 42 (Republic of Korea,</b> <b>1/2020)</b> TWA 8 hours: 10 mg/m <sup>3</sup> . Form: Dust. <b>ISHA Article 42 (Republic of Korea,</b>
2-methylpropan-1-ol	ed)	ISHA Article 42 (Republic of Korea, 1/2020) TWA 8 hours: 10 mg/m <sup>3</sup> . Form: Dust. ISHA Article 42 (Republic of Korea,
2-methylpropan-1-ol	eu)	1/2020) TWA 8 hours: 10 mg/m <sup>3</sup> . Form: Dust. ISHA Article 42 (Republic of Korea,
		TWA 8 hours: 10 mg/m <sup>3</sup> . Form: Dust. ISHA Article 42 (Republic of Korea,
		ISHA Article 42 (Republic of Korea,
titanium dioxide		1/2020)
titanium dioxide		
titanium dioxide		TWA 8 hours: 50 ppm.
		ISHA Article 42 (Republic of Korea,
		1/2020)
4-methylpentan-2-one		TWA 8 hours: 10 mg/m <sup>3</sup> . ISHA Article 42 (Republic of Korea,
		1/2020)
		STEL 15 minutes: 75 ppm.
		TWA 8 hours: 50 ppm.
Recommended	Peference should be made to ann	ropriate monitoring standards. Reference to
monitoring procedures		nethods for the determination of hazardous
3. Appropriate engineering controls	ventilation or other engineering cor contaminants below any recomme	Use process enclosures, local exhaust ntrols to keep worker exposure to airborne nded or statutory limits. The engineering controls ist concentrations below any lower explosive tion equipment.
Environmental exposure controls	they comply with the requirements cases, fume scrubbers, filters or en	process equipment should be checked to ensure of environmental protection legislation. In some ngineering modifications to the process luce emissions to acceptable levels.
C. Personal protective equipn	nent	
Respiratory protection	hazards of the product and the sa workers are exposed to concentra appropriate, certified respirators.	ed on known or anticipated exposure levels, the fe working limits of the selected respirator. If itions above the exposure limit, they must use Use a properly fitted, air-purifying or air-fed oved standard if a risk assessment indicates this is
Eye protection	: Chemical splash goggles and face	e shield.
Hand protection	be worn at all times when handling this is necessary. Considering the check during use that the gloves a should be noted that the time to be	oves complying with an approved standard should g chemical products if a risk assessment indicates e parameters specified by the glove manufacturer, are still retaining their protective properties. It reakthrough for any glove material may be acturers. In the case of mixtures, consisting of
	several substances, the protection estimated.	n time of the gloves cannot be accurately
Gloves	: butyl rubber	

### 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.

Δ.	Appearance			
	Physical state		Liquid.	
	Color	÷	Gray.	
в.	Odor		Characteristic.	
C.	Odor threshold	÷	Not available.	
D.	рН	:	Not applicable.	
Е.		:	Not available.	
F.		:	>37.78°C (>100°F)	
G.	Flash point	:	Closed cup: 28°C (82	2.4°F)
н.	Evaporation rate	:	Not available.	
ι.	Flammability (solid, gas)	:	Not available.	
J.	Lower and upper explosive (flammable) limits		Not available.	
к.	Vapor pressure	:		Va
			Ingredient name	mm I
			2-methylpropan-1-ol	<12.00
	Solubility(ies)		Media	<u> </u>
<u> </u>	consinty(ics)	1	cold water	

	Vapo	r <mark>Pressu</mark>	re at 20°C	Vap	Vapor pressure at 50°C			
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method		
2-methylpropan-1-ol	<12.00102	<1.6	DIN EN 13016-2					
Media	Re	sult						
cold water	No	t soluble						

: Not available.

: 1.21

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: Not available.

- M. Vapor density
- N. Relative density

Solubility in water

- O. Partition coefficient: n- : Not applicable. octanol/water
- P. Auto-ignition
- P. temperature

## Section 9. Physical and chemical properties

		Ingredient name	°C	°F	Method
		Solvent naphtha (petroleum), heavy arom.	220 to 250	428 to 482	ASTM E 659
Q.	Decomposition : temperature	Not available.			
R.	-	ynamic (room temperature): Not available. (inematic (room temperature): Not available. (inematic (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 nitrogen oxides halogenated compounds Formaldehyde. metal oxide/oxides

## Section 11. Toxicological information

A. Information on the routes of exposur	
Potential acute healt	th 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	s/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
	K (010) D 0140

### Section 11. Toxicological information

Eye contact

: Adverse symptoms may include the following:

pain watering redness

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

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Epoxy Resin (700 <mw<=1100)< td=""><td>LD50 Dermal</td><td>Rat</td><td>&gt;2000 mg/kg</td><td>-</td></mw<=1100)<>	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
Xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	LD50 Oral	Rat	17100 mg/kg	-
Aluminium powder (stabilized)	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours
	LD50 Oral	Rat	>15900 mg/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	-
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	-
titanium dioxide	LC50 Inhalation Dusts and	Rat	>6.82 mg/l	4 hours
	mists		Ū Ū	
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
4-methylpentan-2-one	LC50 Inhalation Vapor	Rat	11 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	2.08 g/kg	-

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

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation		
Xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-		
Conclusion/Summary							
Skin : There are no data available on the mixture itself.							

: There are no data available on the mixture itself.

Eyes Respiratory : 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
oxirane, mono[ (C12-14-alkyloxy)methyl] derivs.	skin	Guinea pig	Sensitizing

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### Section 11. Toxicological information

Conclusion/Summary	
Skin	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
<u>Mutagenicity</u>	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.
<b>Carcinogenicity</b>	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.
Reproductive toxicity	
	. There are no data available on the unit time its off
Conclusion/Summary	: There are no data available on the mixture itself.
<u> </u>	
Teratogenicity	

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

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

Name	Classification	Route of exposure	Target organs
Talc , not containing asbestiform fibres	Category 3	-	Respiratory tract irritation
Xylene	Category 3	-	Narcotic effects
Solvent naphtha (petroleum), heavy arom.	Category 3	-	Narcotic effects
2-methylpropan-1-ol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
4-methylpentan-2-one	Category 3	-	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
Solvent naphtha (petroleum), heavy arom.	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 2

#### 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.

## Section 11. Toxicological information

Carcinogenicity	: May cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

### Additional information

Prolonged or repeated contact may dry skin and cause irritation. Sanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Contains a substance that may emit formaldehyde if stored beyond its shelf life and/or during cure at curing temperatures greater than 60C (140F). Avoid contact with skin and clothing.

Chemical name	Identifiers	GHS Classification
vystalline silica, respirable powder (<10 microns)	CAS: 14808-60-7	CARCINOGENICITY - Category 1A
	EC: 238-878-4	
Talc , not containing asbestiform fibres	CAS: 14807-96-6	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
	EC: 238-877-9	
Epoxy Resin (700 <mw<=1100)< td=""><td>CAS: 25036-25-3</td><td>SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1B</td></mw<=1100)<>	CAS: 25036-25-3	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1B
Xylene	CAS: 1330-20-7 EC: 215-535-7	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
Cashew, nutshell liq.	CAS: 8007-24-7 EC: 232-355-4	(REPEATED EXPOSURE) - Category 1 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1B
ethylbenzene	CAS: 100-41-4 EC: 202-849-4	AQUATIC HAZARD (LONG-TERM) - Category 4 FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 2 ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 3
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	CAS: 68609-97-2	SKIN IRRITATION - Category 2
Aluminium powder (stabilized)	EC: 271-846-8 CAS: 7429-90-5 EC: 231-072-3	SKIN SENSITIZATION - Category 1B FLAMMABLE SOLIDS - Category 1 SUBSTANCES AND MIXTURES, WHICH IN CONTACT WITH WATER, EMIT FLAMMABLE GASES - Category 2
Solvent naphtha (petroleum), heavy	CAS: 64742-94-5	FLAMMABLE LIQUIDS - Category 4
arom.	EC: 265-198-5	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
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### Product code 00394162

Product name SIGMAPRIME 700 BASE GREY

## Section 11. Toxicological information

Urea, polymer with formaldehyde, butylated	CAS: 68002-19-7	ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2 AQUATIC HAZARD (LONG-TERM) - Category 4
2-methylpropan-1-ol	CAS: 78-83-1 EC: 201-148-0	FLAMMABLE LIQUIDS - Category 3 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 2
titanium dioxide	CAS: 13463-67-7 EC: 236-675-5	CARCINOGENICITY - Category 2
4-methylpentan-2-one	CAS: 108-10-1 EC: 203-550-1	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3

## Section 12. Ecological information

### A. Ecotoxicity

Product/ingredient name	Result	Species	Exposure
ethylbenzene	Acute EC50 1.8 mg/l Fresh water Chronic NOEC 1 mg/l Fresh water	Daphnia Daphnia - <i>Ceriodaphnia dubia</i>	48 hours -
oxirane, mono[ (C12-14-alkyloxy)methyl] derivs.	LC50 >100 mg/l	Fish	96 hours
Solvent naphtha (petroleum), heavy arom.	NOEL 0.48 mg/l Fresh water	Daphnia	21 days
2-methylpropan-1-ol titanium dioxide 4-methylpentan-2-one	Acute EC50 1100 mg/l Acute LC50 >100 mg/l Fresh water Acute LC50 >179 mg/l	Daphnia Daphnia - <i>Daphnia magna</i> Fish	48 hours 48 hours 96 hours

#### B. Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
ethylbenzene 4-methylpentan-2-one	- OECD 301F		adily - 10 days adily - 28 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
Xylene ethylbenzene 4-methylpentan-2-one	- -		- -		Readily Readily Readily	

### C. Bioaccumulative potential

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### Section 12. Ecological information

Product/ingredient name	LogPow	BCF	Potential	
Xylene	3.12	7.4 to 18.5	Low	
Cashew, nutshell liq.	>4.78	-	High	
ethylbenzene	3.6	79.43	Low	
oxirane, mono[	3.77	-	Low	
(C12-14-alkyloxy)methyl]				
derivs.				
Solvent naphtha	2.8 to 6.5	-	High	
(petroleum), heavy arom.				
2-methylpropan-1-ol	1	-	Low	
4-methylpentan-2-one	1.9	-	Low	

### D. Mobility in soil

Soil/water partition : Not available. coefficient (K<sub>oc</sub>)

E. <u>Other adverse effects</u> : No known significant effects or critical hazards.

### Section 13. Disposal considerations

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

soil, waterways, drains and sewers.

## Section 14. Transport information

	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.		
			Korea (GHS) Page: 13/16		

Product code	00394162	Date of issue <sup>11/26/2024</sup> (month/d	ay/year) Version 9.11
Product name	SIGMAPRIME 700 BASE GREY		
Section 1	4. Transport informat	ion	
E. Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.
Additional infor	mation		
UN	: None identified.		

IMDG	: None identified.
ΙΑΤΑ	: 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** : None of the components are listed. (Harmful substances prohibited from manufacture) **ISHA article 118** : None of the components are listed. (Harmful substances requiring permission) **Article 2 of Youth Protection** : It is not allowed to sell to persons under the age of 19. Act on Substances Hazardous to Youth **Exposure Limits of Chemical Substances and Physical Factors** The following components have an OEL: **ISHA Enforcement Regs** : None of the components are listed. **Annex 19 (Exposure** standards established for harmful factors) **ISHA Enforcement Regs** : The following components are listed: quartz, talc / soapstone, xylene, ethyl benzene, Annex 11-5 (Harmful aluminum and its compounds, isobutyl alcohol factors subject to Work **Environment Measurement**) **ISHA Enforcement Regs** : The following components are listed: Xylene, Ethyl benzene, Aluminum and its Annex 22 (Harmful compounds, Isobutyl alcohol **Factors Subject to Special Health Check**up)

## Section 15. Regulatory information

	Standard of Industrial Safety and Health Annex 12 (Hazardous substances subject to control)	:	The following components are listed: xylene, ethyl benzene, aluminum and its compounds, isobutyl alcohol	
В.	Regulation according to	<u>Ch</u>	emicals Control Act	
	Article 11 (TRI)	:	The following components are listed: Xylene including o-,m-,p- isomer, Ethylbenzene, Aluminium and its compounds	
	Article 18 Prohibited (K- Reach Article 27)	1	None of the components are listed.	
	Article 19 Subject to authorization (K-Reach Article 25)	:	None of the components are listed.	
	Article 20 Restricted (K- Reach Article 27)	1	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)	1	None of the components are listed.	
C.	Dangerous Materials Safety Management Act	:	Class: Class 4 - Flammable Liquid Item: 4. Class 2 petroleums - Water-insoluble liquid Threshold: 1000 L Danger category: III Signal word: Contact with sources of ignition prohibited	
D.	Wastes regulation	;	Dispose of contents and container in accordance with all local, regional, national and international regulations.	
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.	First issue date	:	10/7/2019
C.	Date of issue/Date of revision	:	11/26/2024
D.	Version	:	9.11
	Prepared by	:	EHS
Ε.	Other		

### 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.