## SAFETY DATA SHEET



Date of issue 3/27/2024 (month/day/year)

Version 15

## Section 1. Chemical product and company identification

A. Product name	: SIGMAPRIME 700 BASE GREY
Product code	: 00380183

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

Product use	: Professional applications, Used by spraying.
Use of the substance/ mixture	: Coating.
Uses advised against	: Product is not intended, labelled or packaged for consumer use.
C. Supplier's or Importer's information Email Address	: PPG SSC (680-090) 19, Yeocheon-ro 217beon-gil, Nam-gu, Ulsan, Korea Tel: +82-52-210-8222 Korea.MSDS@PPG.COM
Emergency telephone number:	: <mark>⊮</mark> 82-52-210-8331

## Section 2. Hazards identification

A. Hazard classification	: FLAMMABLE LIQUIDS - Category 3
	SKIN IRRITATION - Category 2
	EYE IRRITATION - Category 2A
	SKIN SENSITIZATION - Category 1
	CARCINOGENICITY - Category 1A
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
	AQUATIC HAZARD (LONG-TERM) - Category 3
	EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 1A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

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

#### B. GHS label elements, including precautionary statements

Symbol



Signal word

: Danger

Product code 00380183

Date of issue 3/27/2024 (month/day/year)

Product name SIGMAPRIME 700 BASE GREY

## Section 2. Hazards identification

Hazard statements	<ul> <li>         Image: Flammable liquid and vapor.         H315 - Causes skin irritation.         H317 - May cause an allergic skin reaction.         H319 - Causes serious eye irritation.         H350 - May cause cancer.         H373 - May cause damage to organs through prolonged or repeated exposure.         (central nervous system (CNS), kidneys, liver)         H412 - Harmful to aquatic life with long lasting effects.     </li> </ul>
Precautionary statements	
Prevention	<ul> <li>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.</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>P273 - Avoid release to the environment.</li> <li>P260 - Do not breathe vapor.</li> <li>P264 - Wash thoroughly after handling.</li> </ul>
Response	<ul> <li>P308 + P313 - IF exposed or concerned: Get medical advice or attention.</li> <li>P362 + P364 - Take off contaminated clothing and wash it before reuse.</li> <li>P302 + P352 - IF ON SKIN: Wash with plenty of water.</li> <li>P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.</li> <li>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.</li> <li>Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P337 + P313 - If eye irritation persists: Get medical advice or attention.</li> </ul>
Storage	: 🗗 403 + P235 - Store in a well-ventilated place. 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.
	· Not applicable.

Chemical name	Common name	Identifiers	%
₽poxy 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	5 - <10
crystalline silica, respirable powder (<10 microns)	QUARTZ (<10 microns)	CAS: 14808-60-7	5 - <10
Phenol, methylstyrenated	Phenol, methylstyrenated	CAS: 68512-30-1	1 - <5
Solvent naphtha (petroleum), light aromatic	SOLVENT NÁPHTHA (PETROLEUM), LIGHT AROMATIC	CAS: 64742-95-6	1 - <5
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	oxirane, mono[(C12-14-alkyloxy)methyl] derivs	CAS: 68609-97-2	1 - <5
Aluminium powder (stabilized)	ALUMINUM POWDER	CAS: 7429-90-5	1 - <5
1,2,4-trimethylbenzene	1,2,4-TRIMETHYL BENZENE	CAS: 95-63-6	1 - <5
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#### Section 3. Composition/information on ingredients

•	•		
ethylbenzene	ETHYLBENZENE	CAS: 100-41-4	1 - <5
Cashew, nutshell liq.	CASHEW NUTSHELL LIQUID	CAS: 8007-24-7	1 - <5
Urea, polymer with formaldehyde,	UREA-FORMALDEHYDE RESIN,	CAS: 68002-19-7	1 - <5
butylated	BUTYLATED		
Solvent naphtha (petroleum), heavy	SOLVENT NAPHTHA (PETROLEUM),	CAS: 64742-94-5	1 - <5
arom.	HEAVY AROMATIC		
2-methylpropan-1-ol	ISOBUTYL ALCOHOL	CAS: 78-83-1	1 - <5
1-methoxy-2-propanol	PROPYLENE GLYCOL MONOMETHYL	CAS: 107-98-2	1 - <5
	ETHER		
titanium dioxide	TITANIUM DIOXIDE	CAS: 13463-67-7	0.1 - <1
4-methylpentan-2-one	4-METHYLPENTAN-2-ONE / METHYL	CAS: 108-10-1	0.1 - <1
	ISOBUTYL KETONE		

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	:	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	Specific treatments	4	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 <sub>2</sub> , water spray (fog) or foam.
	Unsuitable extinguishing media	:	Do not use water jet.
В.	Specific hazards arising from the chemical	:	Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is 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 nitrogen oxides halogenated compounds metal oxide/oxides Formaldehyde.
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 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.

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 : S a s e
  - : 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

hazardous. Do not reuse container.	Do not handle until all safety precautions have been read and under get in eyes or on skin or clothing. Do not breathe vapor or mist. Do Avoid release to the environment. Use only with adequate ventilation appropriate respirator when ventilation is inadequate. Do not enter and confined spaces unless adequately ventilated. Keep in the orig an approved alternative made from a compatible material, kept tight not in use. Store and use away from heat, sparks, open flame or ar source. Use explosion-proof electrical (ventilating, lighting and mate equipment. Use only non-sparking tools. Take precautionary meas electrostatic discharges. Empty containers retain product residue a	o not ingest. on. Wear storage areas ginal container or tly closed when ny other ignition erial handling) sures against
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B. Conditions for safe storage, including any incompatibilities
 Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

#### A. Occupational exposure limits

Ingredient name	Exposure limits
<b>X</b> 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 <sup>3</sup> 8 hours. Form: Respirable fraction
Aluminium powder (stabilized)	Ministry of Employment and Labor (Republic of Korea, 1/2020). TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Dust
1,2,4-trimethylbenzene	Ministry of Employment and Labor
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## Section 8. Exposure controls/personal protection

	ethylbenzene			(Republic of Korea, 1/2020). [Trimethyl benzene (mixed isomers)] TWA: 25 ppm 8 hours. Ministry of Employment and Labor (Republic of Korea, 1/2020).
	2-methylpropan-1-ol			STEL: 125 ppm 15 minutes. TWA: 100 ppm 8 hours. Ministry of Employment and Labor (Republic of Korea, 1/2020).
	1-methoxy-2-propanol			TWA: 50 ppm 8 hours. <b>Ministry of Employment and Labor</b> (Republic of Korea, 1/2020). STEL: 150 ppm 15 minutes.
	titanium dioxide			TWA: 100 ppm 8 hours. <b>Ministry of Employment and Labor</b> <b>(Republic of Korea, 1/2020).</b> TWA: 10 mg/m <sup>3</sup> 8 hours. Form: total dust
	4-methylpentan-2-one			with less than 1% of free SiO2 <b>Ministry of Employment and Labor</b> <b>(Republic of Korea, 1/2020).</b> STEL: 75 ppm 15 minutes. TWA: 50 ppm 8 hours.
	Recommended monitoring procedures	:		iate monitoring standards. Reference to ods for the determination of hazardous
В.	Appropriate engineering controls	:		s to keep worker exposure to airborne d or statutory limits. The engineering controls oncentrations below any lower explosive
	Environmental exposure controls	:		
с.	Personal protective equip	ome	ent	
	Respiratory protection	:	hazards of the product and the safe w workers are exposed to concentration appropriate, certified respirators. Use	n known or anticipated exposure levels, the orking limits of the selected respirator. If is above the exposure limit, they must use a properly fitted, air-purifying or air-fed d standard if a risk assessment indicates this is
	Eye protection	:	Chemical splash goggles.	
	Hand protection	:	be worn at all times when handling ch this is necessary. Considering the pa check during use that the gloves are s should be noted that the time to break	s complying with an approved standard should emical products if a risk assessment indicates rameters specified by the glove manufacturer, still retaining their protective properties. It athrough for any glove material may be rers. In the case of mixtures, consisting of the of the gloves cannot be accurately

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## Section 8. Exposure controls/personal protection

Gloves	: butyl rubber
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

## Section 9. Physical and chemical properties

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

Α.	Appearance								
	Physical state	:	Liquid.						
	Color	1	Gray.						
В.	Odor	1	Characteristic.						
С.	Odor threshold	1	Not available.						
D.	рН	1	Not applicable.						
Ε.	Melting/freezing point	1	Not available.						
F.	Boiling point/boiling range	1	>37.78°C (>100°F)						
G.	Flash point	:	Closed cup: 26°C (7	8.8°F)					
н.	Evaporation rate	1	Not available.						
Т.	Flammability (solid, gas)	:	Not available.						
J.	Lower and upper explosive (flammable) limits	:	Greatest known rang	ge: Lower:	1.48%	Upper: 13.74	₩ (1-me	thoxy-2-p	oropanol)
к.	Vapor pressure	4		Vapo	r Press	ure at 20°C	Vap	oor press	sure at 50
K.	Vapor pressure	:	Ingredient name	Vapor mm Hg	r Press kPa	ure at 20°C	Var mm Hg	kPa	sure at 50 Metho
K.	Vapor pressure	:	Ingredient name		kPa	1	mm	-	1
K.		:		<b>mm Hg</b>	kPa	Method DIN EN	mm	-	1
K. L.	Vapor pressure Solubility(ies)	:	methylpropan-1-ol	<pre></pre>	<b>kPa</b> <1.6	Method DIN EN 13016-2	mm	-	1
K. L.		:	Media	<pre></pre>	kPa <1.6 sult	Method DIN EN 13016-2	mm	-	1
L.	Solubility(ies) Solubility in water Vapor density	:	Media	<pre></pre>	kPa <1.6 sult	Method DIN EN 13016-2	mm	-	1
L. M.	Solubility(ies) Solubility in water Vapor density	: : : :	Media old water Not available.	<pre></pre>	kPa <1.6 sult	Method DIN EN 13016-2	mm	-	1
L.	Solubility(ies) Solubility in water Vapor density		<ul> <li>Media</li> <li>Media</li> <li>Media</li> <li>Mot available.</li> <li>Not available.</li> </ul>	<pre></pre>	kPa <1.6 sult	Method DIN EN 13016-2	mm	-	1
L. M. N.	Solubility(ies) Solubility in water Vapor density Relative density Partition coefficient: n-		Media   Øold water   Not available.   Not available.   1.48	<pre></pre>	kPa <1.6 sult	Method DIN EN 13016-2	mm	-	1

Vapor pressure at 50°C

Method

Product code 00380183 Product name SIGMAPRIME 700 BASE GREY

## **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
Not available.			

# Q.Decomposition<br/>temperature:R.Viscosity<br/>Flow time (ISO 2431):

- : **K**inematic (40°C (104°F)): >21 mm²/s (>21 cSt)
- 1) : 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

	mation on the likel es of exposure	y : Not available.
Potentia	al acute health effe	ects
Inhal	ation	No known significant effects or critical hazards.
Inges	stion	No known significant effects or critical hazards.
Skin	contact	Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Eye o	contact	Causes serious eye irritation.
<u>Over-ex</u>	<u> (posure signs/sym</u>	<u>ptoms</u>
Inhal	ation	No specific data.
Inges	stion	No specific data.
Skin	contact	Adverse symptoms may include the following: irritation redness dryness cracking
Eye o	contact	Adverse symptoms may include the following: pain or irritation watering redness
B. Healt	h hazards	

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## Section 11. Toxicological information

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
<mark>E</mark> poxy 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	-
Phenol, methylstyrenated	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
Solvent naphtha (petroleum), light aromatic	LD50 Dermal	Rabbit	3.48 g/kg	-
	LD50 Oral	Rat	8400 mg/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	_
1,2,4-trimethylbenzene	LC50 Inhalation Vapor	Rat	18000 mg/m <sup>3</sup>	4 hours
·,_, · · ······························	LD50 Oral	Rat	5 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	_
Solvent naphtha (petroleum), heavy	LC50 Inhalation Dusts and	Rat	>5.2 mg/l	4 hours
arom.	mists		0	
	LD50 Oral	Rat	>5 g/kg	_
2-methylpropan-1-ol	LC50 Inhalation Vapor	Rat	24.6 mg/l	4 hours
51 1	LD50 Dermal	Rabbit	2460 mg/kg	_
	LD50 Oral	Rat	2830 mg/kg	-
1-methoxy-2-propanol	LC50 Inhalation Vapor	Rat	>7000 ppm	6 hours
5 1 1	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		J.	
	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
<i>.</i>	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
₩ylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Conclusion/Summary					

<u>Conclusion/Summary</u>		
Skin	:	There are no data available on the mixture itself.
Eyes	1	There are no data available on the mixture itself.
Respiratory	1	There are no data available on the mixture itself.

#### **Sensitization**

Product code 00380183

Date of issue 3/27/2024 (month/day/year)

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Product name SIGMAPRIME 700 BASE GREY

## Section 11. Toxicological information

Product/ingredient name	Route of	Species	Result	
øxirane, mono[ (C12-14-alkyloxy)methyl] derivs.	skin	Guinea pig	Sensitizing	
		a available on the mixture its a available on the mixture its		
Mutagenicity Conclusion/Summary :	There are no da	ta available on the mixture its	self.	
Carcinogenicity Conclusion/Summary	There are no da	ata available on the mixture it	self.	
Reproductive toxicity Conclusion/Summary	: There are no da	ata available on the mixture i	tself.	
<u>Teratogenicity</u> Conclusion/Summary	: There are no da	ata available on the mixture i	tself.	

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

Name	Classification	Route of exposure	Target organs
<b>X</b> ylene	Category 3	-	Narcotic effects
Solvent naphtha (petroleum), light aromatic	Category 3	-	Narcotic effects
1,2,4-trimethylbenzene	Category 3	-	Respiratory tract irritation
Solvent naphtha (petroleum), heavy arom.	Category 3	-	Narcotic effects
2-methylpropan-1-ol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
1-methoxy-2-propanol	Category 3	-	Narcotic effects
4-methylpentan-2-one	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects

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

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

#### **Aspiration hazard**

## Section 11. Toxicological information

Name	Result
Solvent naphtha (petroleum), light aromatic	ASPIRATION HAZARD - Category 1
ethylbenzene	ASPIRATION HAZARD - Category 1
Solvent naphtha (petroleum), heavy arom.	ASPIRATION HAZARD - Category 1
2-methylpropan-1-ol	ASPIRATION HAZARD - Category 2

#### Potential chronic health effects

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

#### **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. 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
₽poxy Resin (700 <mw<=1100)< td=""><td>CAS: 25036-25-3</td><td>SKIN IRRITATION - Category 2</td></mw<=1100)<>	CAS: 25036-25-3	SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
Video -	040,4000,007	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
microns)		5,7
Phenol, methylstyrenated	CAS: 68512-30-1	SKIN IRRITATION - Category 2
		SKIN SENSITIZATION - Category 1B
		AQUATIC HAZARD (LONG-TERM) - Category 3
Solvent naphtha (petroleum), light aromatic	CAS: 64742-95-6	FLAMMABLE LIQUIDS - Category 3
		SKIN IRRITATION - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE
		EXPOSURE) (Narcotic effects) - Category 3
		ASPIRATION HAZARD - Category 1
		AQUATIC HAZARD (LONG-TERM) - Category 2
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	CAS: 68609-97-2	SKIN IRRITATION - Category 2
		SKIN SENSITIZATION - Category 1B
Aluminium powder (stabilized)	CAS: 7429-90-5	FLAMMABLE SOLIDS - Category 1
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## Section 11. Toxicological information

		SUBSTANCES AND MIXTURES, WHICH IN CONTACT WITH WATER, EMIT FLAMMABLE
		GASES - Category 2
1,2,4-trimethylbenzene	CAS: 95-63-6	FLAMMABLE LIQUIDS - Category 3
		ACUTE TOXICITY (inhalation) - Category 4
		SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE
		EXPOSURE) (Respiratory tract irritation) -
		Category 3
	CAC: 100 11 1	AQUATIC HAZARD (LONG-TERM) - Category 2
ethylbenzene	CAS: 100-41-4	FLAMMABLE LIQUIDS - Category 2
		ACUTE TOXICITY (inhalation) - Category 4
		CARCINOGENICITY - Category 2
		ASPIRATION HAZARD - Category 1
Cashavy, avtahall lia	CAS: 8007 04 7	AQUATIC HAZARD (LONG-TERM) - Category 3
Cashew, nutshell liq.	CAS: 8007-24-7	ACUTE TOXICITY (oral) - Category 4
		ACUTE TOXICITY (dermal) - Category 4 SKIN IRRITATION - Category 2
		SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1
		SKIN SENSITIZATION - Category 1B
Urea, polymer with formaldehyde,	CAS: 68002-19-7	AQUATIC HAZARD (LONG-TERM) - Category 4 AQUATIC HAZARD (LONG-TERM) - Category 4
butylated	CAS. 66002-19-7	AQUATIC HAZARD (LONG-TERIVI) - Calegory 4
Solvent naphtha (petroleum), heavy	CAS: 64742-94-5	FLAMMABLE LIQUIDS - Category 4
arom.	CAS. 04742-34-3	
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE
		EXPOSURE) (Narcotic effects) - Category 3
		ASPIRATION HAZARD - Category 1
		AQUATIC HAZARD (LONG-TERM) - Category 2
2-methylpropan-1-ol	CAS: 78-83-1	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
1-methoxy-2-propanol	CAS: 107-98-2	FLAMMABLE LIQUIDS - Category 3
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE
		EXPOSURE) (Narcotic effects) - Category 3
titanium dioxide	CAS: 13463-67-7	CARCINOGENICITY - Category 2
4-methylpentan-2-one	CAS: 108-10-1	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
		EAR USURE) (Narcourd enects) - Category 3

## Section 12. Ecological information

Product name SIGMAPRIME 700 BASE GREY

#### A. Ecotoxicity

Product/ingredient name	Result	Species	Exposure
Solvent naphtha (petroleum), light aromatic	Acute LC50 8.2 mg/l	Fish	96 hours
oxirane, mono[ (C12-14-alkyloxy)methyl]	LC50 >100 mg/l	Fish	96 hours
derivs. ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
ettyibenzene	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	40 HOUIS -
Solvent naphtha (petroleum), heavy arom.	NOEL 0.48 mg/l Fresh water	Daphnia	21 days
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
1-methoxy-2-propanol	Acute LC50 23300 mg/l	Daphnia	48 hours
	Acute LC50 >4500 mg/l Fresh water	Fish	96 hours
titanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
4-methylpentan-2-one	Acute LC50 >179 mg/l	Fish	96 hours

#### B. Persistence and degradability

Product/ingredient name	Test	79 % - Readily - 10 days 83 % - Readily - 28 days		Dose		Inoculum
€thylbenzene 4-methylpentan-2-one	- OECD 301F			-		-
Product/ingredient name	Aquatic half-life				Biodeg	gradability
₩ylene ethylbenzene 4-methylpentan-2-one	- - -		- - -		Readily Readily Readily	

#### C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Xylene	3.12	7.4 to 18.5	Low
Phenol, methylstyrenated	3.627	-	Low
oxirane, mono[	3.77	-	Low
(C12-14-alkyloxy)methyl]			
derivs.			
1,2,4-trimethylbenzene	3.63	120.23	Low
ethylbenzene	3.6	79.43	Low
Cashew, nutshell liq.	>4.78	-	High
Solvent naphtha	2.8 to 6.5	-	High
(petroleum), heavy arom.			
2-methylpropan-1-ol	1	-	Low
1-methoxy-2-propanol	<1	-	Low
4-methylpentan-2-one	1.9	-	Low

## D. <u>Mobility in soil</u>

Soil/water partition coefficient (Koc)

: Not available.

E. Other adverse effects

: No known significant effects or critical hazards.

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Section 13. Disposal considerations

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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

Product code 00380183

Date of issue 3/27/2024 (month/day/year)

Version 15

Product name SIGMAPRIME 700 BASE GREY

## Section 15. Regulatory information

Α.	Regulation according to I	SH	<u>A</u>
	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	ica	I Substances and Physical Factors
	The following components Kylene crystalline silica, respirable Aluminium powder (stabiliz 1,2,4-trimethylbenzene ethylbenzene 2-methylpropan-1-ol 1-methoxy-2-propanol titanium dioxide 4-methylpentan-2-one	e p	owder (<10 microns)
	ISHA Enforcement Regs Annex 19 (Exposure standards established for harmful factors) ISHA Enforcement Regs Annex 21 (Harmful factors subject to Work Environment Measurement)	:	None of the components are listed. The following components are listed: xylene, quartz, aluminum and its compounds, ethyl benzene, isobutyl alcohol
	ISHA Enforcement Regs Annex 22 (Harmful Factors Subject to Special Health Check- up)	:	The following components are listed: Xylene, Aluminum and its compounds, Ethyl benzene, Isobutyl alcohol
	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, isobutyl alcohol
В.	Regulation according to C	<u>Ch</u>	emicals Control Act
	Article 11 (TRI)		The following components are listed: Xylene including o-,m-,p- isomer, 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.

### Section 15. Regulatory information

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	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	1	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	1	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Ε.	Regulation according to o	oth	er foreign laws
	Safety, health and environmental regulations specific for	:	No known specific national and/or regional regulations applicable to this product (including its ingredients).

#### Section 16. Other information

<b>A</b> .	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	:	3/27/2024
С.	Version	:	15
	Prepared by	:	EHS
-	011		

D. Other

the product

✓ 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.