# SAFETY DATA SHEET



#### Date of issue 12/13/2023 (month/day/year)

Version 3

## Section 1. Chemical product and company identification

A. Product name	: SIGMAPRIME 200 BASE GREY
Product code	: 00445020

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

U	roduct use se of the substance/ hixture		Professional applications, Used by spraying. Coating.
	ses advised against	:	Product is not intended, labelled or packaged for consumer use.
ir	Supplier's or Importer's nformation 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:	:	+82-52-210-8222

## Section 2. Hazards identification

A. Hazard classification	: FLAMMABLE LIQUIDS - Category 3
	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 (SINGLE EXPOSURE) (Narcotic effects) - Category 3
	SPEČIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 AQUATIC HAZARD (LONG-TERM) - Category 2
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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



Product code 00445020

Date of issue <sup>12/13/2023</sup> (month/day/year)

Product name SIGMAPRIME 200 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>H335 - May cause respiratory irritation.</li> <li>H336 - May cause drowsiness or dizziness.</li> <li>H350 - May cause cancer.</li> <li>H373 - May cause damage to organs through prolonged or repeated exposure.</li> <li>(central nervous system (CNS), kidneys, liver)</li> <li>H411 - Toxic to aquatic life with long lasting effects.</li> </ul>
	Precautionary statements	5	
	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>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>P391 - Collect spillage.</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>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, 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> </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.
).	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** 

С

: Not applicable.

Korea (GHS) Page: 2/17

### Section 3. Composition/information on ingredients

Chemical name	Common name	Identifiers	%
	Talc, non-asbestos form	CAS: 14807-96-6	20 - <30
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
crystalline silica, respirable powder (>10 microns)	QUARTZ (>10 microns)	CAS: 14808-60-7	10 -<20
Xylene	XYLENES	CAS: 1330-20-7	5 - <10
ethylbenzene	ETHYLBENZENE	CAS: 100-41-4	5 - <10
Solvent naphtha (petroleum), heavy arom.	SOLVENT NAPHTHA (PETROLEUM), HEAVY AROMATIC	CAS: 64742-94-5	5 - <10
Aluminium powder (stabilized)	ALUMINUM POWDER	CAS: 7429-90-5	1 - <5
2-methylpropan-1-ol	ISOBUTYL ALCOHOL	CAS: 78-83-1	1 - <5
1-methoxy-2-propanol	PROPYLENE GLYCOL MONOMETHYL ETHER	CAS: 107-98-2	1 - <5
nonylphenol	NONYL PHENOL	CAS: 25154-52-3	1 - <5
Octadecanamide, N,N'-1,6-hexanediylbis [12-hydroxy-	N,N-1,6-HEXANEDIYLBIS (12-HYDROXY-OCTADECANEIMIDE)	CAS: 55349-01-4	1 - <5
Solvent naphtha (petroleum), medium aliph.	SOLVENT NAPHTHA (PETROLEUM), MEDIUM ALIPHATIC	CAS: 64742-88-7	1 - <5
Solvent naphtha (petroleum), light aromatic	SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC	CAS: 64742-95-6	1 - <5
xylene	o-Xylene	CAS: 95-47-6	0.1 - <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

Α.	Eye contact	:	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
В.	Skin contact	:	Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
C.	Inhalation		Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
D.	Ingestion	:	If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.
E.	Notes to physician Specific treatments		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. No specific treatment.

### Section 4. First aid measures

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

#### See toxicological information (Section 11)

## Section 5. Fire-fighting measures

Α.	Extinguishing media		
	Suitable extinguishing media	:	Use dry chemical, CO <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 toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
	Hazardous thermal decomposition products	:	Decomposition products may include the following materials: carbon oxides nitrogen oxides metal oxide/oxides
<b>C</b> .	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.
S	action 6 Acciden	t	al ralazza mazsuras

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A. Personal precautions, : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from protective equipment and entering. Do not touch or walk through spilled material. Shut off all ignition sources. emergency procedures 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** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused precautions environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

#### C. Methods and materials for containment and cleaning up

### 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. 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 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	
🔽 alc , not containing asbestiform fibres	Ministry of Employment and Labor	
	(Republic of Korea, 1/2020).	
	TWA: 2 mg/m <sup>3</sup> 8 hours. Form: fibers	
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	
Xylene	Ministry of Employment and Labor	
1	Korea (GHS) Page: 5	5/17

## Section 8. Exposure controls/personal protection

		(Republic of Korea, 1/2020). [Xylene (all
		isomers)]
		STEL: 150 ppm 15 minutes.
		TWA: 100 ppm 8 hours.
ethylbenzene		Ministry of Employment and Labor
		(Republic of Korea, 1/2020).
		STEL: 125 ppm 15 minutes.
		TWA: 100 ppm 8 hours.
Aluminium powder (stabili	zed)	Ministry of Employment and Labor
		(Republic of Korea, 1/2020).
		TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Dust
2-methylpropan-1-ol		Ministry of Employment and Labor
		(Republic of Korea, 1/2020).
		TWA: 50 ppm 8 hours.
1-methoxy-2-propanol		Ministry of Employment and Labor
		(Republic of Korea, 1/2020).
		STEL: 150 ppm 15 minutes.
		TWA: 100 ppm 8 hours.
Solvent naphtha (petroleu	m), medium aliph.	ACGIH TLV (United States).
	ing, mealain aipin	TWA: 400 ppm
xylene		Ministry of Employment and Labor
Aylone		(Republic of Korea, 1/2020). [Xylene (all
		isomers)]
		STEL: 150 ppm 15 minutes.
		TWA: 100 ppm 8 hours.
Recommended		opriate monitoring standards. Reference to
monitoring procedures		nethods for the determination of hazardous
	substances will also be required.	
Appropriate engineering	: Use only with adequate ventilation.	Use process enclosures, local exhaust
controls		trols to keep worker exposure to airborne
		nded or statutory limits. The engineering controls
		st concentrations below any lower explosive
	limits. Use explosion-proof ventila	
Environmental		process equipment should be checked to ensure
		of environmental protection legislation. In some
exposure controls		ngineering modifications to the process
		uce emissions to acceptable levels.
Personal protective equi	pment	
<b>Respiratory protection</b>	: Respirator selection must be base	d on known or anticipated exposure levels, the
		fe working limits of the selected respirator. If
		tions above the exposure limit, they must use

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 and face shield.

## Section 8. Exposure controls/personal protection

Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Gloves	: butyl rubber
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

## Section 9. Physical and chemical properties

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

Solubility in water	:	Not available.						
		cold water	No	t soluble	)			
Solubility(ies)	:	Media	Re	sult				
		2-methylpropan-1-ol	<12.00102	<1.6	DIN EN 13016-2			
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
Vapor pressure	÷		Vapo	r <mark>Press</mark> ı	ire at 20°C	Va	oor press	ure at 50°C
Lower and upper explosive (flammable) limits	:	Greatest known rang	ge: Lower:	1.48%	Upper: 13.74	∿% (1-me	thoxy-2-p	ropanol)
Flammability (solid, gas)	:	Not available.						
Evaporation rate	:	Not available.						
Flash point	:	Closed cup: 26.4°C	(79.5°F)					
Boiling point/boiling range	ł	>37.78°C (>100°F)						
рН	÷	Not applicable.						
Odor threshold	:	Not available.						
Odor	:	Aromatic.						
Color	:	Gray.						
	:	Liquid.						
	Odor Odor threshold pH Melting/freezing point Boiling point/boiling range Flash point Evaporation rate Flammability (solid, gas) Lower and upper explosive (flammable) limits Vapor pressure	Physical state:Color:Odor:Odor threshold:pH:Melting/freezing point:Boiling point/boiling:range:Flash point:Evaporation rate:Flammability (solid, gas):Lower and upper:explosive (flammable):limitsVapor pressureSolubility(ies):	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:Closed cup: 26.4°CFlash point:Closed cup: 26.4°CEvaporation rate:Not available.Flammability (solid, gas):Not available.Lower and upper:Greatest known rangeexplosive (flammable):Ingredient nameImitsVapor pressure:Ingredient nameSolubility(ies):Media cold water	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:Closed cup: 26.4°C (79.5°F)Flash point:Closed cup: 26.4°C (79.5°F)Evaporation rate:Not available.Flammability (solid, gas):Not available.Lower and upper:Greatest known range: Lower:explosive (flammable):Ingredient nameimitsVapor pressure:Vapor pressure:MediaSolubility(ies):MediaRe cold waterNo	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: 26.4°C (79.5°F)Evaporation rate: Not available.Flammability (solid, gas): Not available.Lower and upper: Greatest known range: Lower: 1.48%explosive (flammable): Ingredient nameImits: MediaVapor Pressure: MediaSolubility(ies): MediaResultcold waterNot soluble	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       :       Closed cup: 26.4°C (79.5°F)         Evaporation rate       :       Not available.         Flash point       :       Closed cup: 26.4°C (79.5°F)         Evaporation rate       :       Not available.         Flammability (solid, gas)       :       Not available.         Lower and upper       :       Greatest known range: Lower: 1.48% Upper: 13.74         explosive (flammable)       :       Greatest known range: Lower: 1.48% Upper: 13.74         Imits       Vapor Pressure at 20°C       Ingredient name       mm Hg       kPa       Method         Image       :	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: 26.4°C (79.5°F)         Evaporation rate       : Not available.         Flammability (solid, gas)       : Not available.         Lower and upper explosive (flammable)       : Greatest known range: Lower: 1.48% Upper: 13.74% (1-me         Vapor pressure       :         Vapor pressure       :         Ingredient name       mm Hg         Method       mm         Vapor pressure       :         Media       Result         Cold water       Not soluble	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: 26.4°C (79.5°F)         Evaporation rate       : Not available.         Flammability (solid, gas)       : Not available.         Lower and upper       : Greatest known range: Lower: 1.48% Upper: 13.74% (1-methoxy-2-pertexplosive (flammable)         limits       :         Vapor pressure       :         Ingredient name       mm Hg       kPa         imm Hg       kPa       Method       mm         KPa       :       :       :         Solubility(ies)       :       :       :       :         Media       Result       :       :       :         Cold water       Not soluble       :       :

Product code 00445020

Product name SIGMAPRIME 200 BASE GREY

## Section 9. Physical and chemical properties

- Vapor density : Not available. Μ. **Relative density** : 1.14 Ν. Partition coefficient: n-: Not applicable. 0. octanol/water **Auto-ignition** 2
- Ρ. temperature

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

**Decomposition** Q.

Viscosity

R.

S.

- : Not available.
- temperature
  - : Kinematic (40°C (104°F)): >21 mm<sup>2</sup>/s (>21 cSt)
- Flow time (ISO 2431) : Not available.
- Molecular weight : Not applicable.

## Section 10. Stability and reactivity

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

## Section 11. Toxicological information

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

### Potential acute health effects

Inhalation	: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
Ingestion	: Can cause central nervous system (CNS) depression.
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Eye contact	: Causes serious eye damage.
Over expective sign	sisuantons

<u>Over-exposure signs/symptoms</u>

## Section 11. Toxicological information

Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Ingestion	: Adverse symptoms may include the following: stomach pains
Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur
Eye contact	: Adverse symptoms may include the following: pain watering redness

### B. Health hazards

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
₽ poxy Resin (700 <mw<=1100)< p=""></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	-
Solvent naphtha (petroleum), heavy	LC50 Inhalation Dusts and	Rat	>5.2 mg/l	4 hours
arom.	mists		Ŭ	
	LD50 Oral	Rat	>5 g/kg	-
Aluminium powder (stabilized)	LC50 Inhalation Dusts and	Rat	>5 mg/l	4 hours
	mists		Ŭ	
	LD50 Oral	Rat	>15900 mg/kg	-
2-methylpropan-1-ol	LC50 Inhalation Vapor	Rat	24.6 mg/l	4 hours
, , , , , , , , , , , , , , , , , , ,	LD50 Dermal	Rabbit	2460 mg/kg	-
	LD50 Oral	Rat	2830 mg/kg	_
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	-
nonylphenol	LD50 Dermal	Rabbit	2.14 g/kg	_
	LD50 Oral	Rat	580 mg/kg	_
Solvent naphtha (petroleum), medium	LD50 Dermal	Rabbit	>3000 mg/kg	-
aliph.			J. J	
	LD50 Oral	Rat	>5000 mg/kg	_
Solvent naphtha (petroleum), light	LD50 Dermal	Rabbit	3.48 g/kg	_
aromatic				
	LD50 Oral	Rat	8400 mg/kg	-
xylene	LC50 Inhalation Vapor	Rat	27124 mg/m <sup>3</sup>	4 hours
,	LD50 Dermal	Rabbit	12126 mg/kg	-
			Korea (GHS)	Page: 9/

Product code00445020Date of issue12/13/2023 (month/day/year)Version 3Product nameSIGMAPRIME 200 BASE GREY					
Section 11. Toxicological information					
	LD50 Oral	Rat	3	523 mg/kg	-
Conclusion/Summary :	There are no data available of	on the mixture itse	elf.		
Irritation/Corrosion					
Product/ingredient name	Result	Species	Score	Exposure	Observation
Kylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Conclusion/Summary		<b>I</b>			•
	There are no data available of				
Eyes :	There are no data available of				
Respiratory :	There are no data available of	on the mixture itse	elt.		
Conclusion/Summary         Skin       : There are no data available on the mixture itself.         Respiratory       : There are no data available on the mixture itself.					
Mutagenicity Conclusion/Summary : There are no data available on the mixture itself.					
Carcinogenicity Conclusion/Summary : There are no data available on the mixture itself.					
<b>Reproductive toxicity</b> <b>Conclusion/Summary</b> : There are no data available on the mixture itself.					
Teratogenicity         Conclusion/Summary       : There are no data available on the mixture itself.					
Specific target organ toxicity	<u>(single exposure)</u>				
Name		Classification	Route of exposure	•	t organs
		1			

Name	Classification	Route of exposure	Target organs
	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
1-methoxy-2-propanol	Category 3	-	Narcotic effects
Solvent naphtha (petroleum), medium aliph.	Category 3	-	Narcotic effects
Solvent naphtha (petroleum), light aromatic	Category 3	-	Narcotic effects
xylene	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects

Specific target organ toxicity (repeated exposure)

# Section 11. Toxicological information

<u> </u>				
Name	Classification	Route of exposure	Target organs	
<mark>X</mark> ylene	Category 1	-	central nervous system (CNS), kidneys, liver	
Solvent naphtha (petroleum), medium aliph.	Category 1	-	central nervous system (CNS)	
xylene	Category 2	-	-	

#### Aspiration hazard

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

#### Potential chronic health effects

General	: May cause damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity 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**

Prolonged or repeated contact may dry skin and cause irritation. Sanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing.

Chemical name	Identifiers	GHS Classification
✓alc , not containing asbestiform fibres	CAS: 14807-96-6	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
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
crystalline silica, respirable powder (>10 microns)	CAS: 14808-60-7	CARCINOGENICITY - Category 1A
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
		Korea (GHS) Page: 11/17

## Section 11. Toxicological information

	040.400.44.4	(REPEATED EXPOSURE) - Category 1
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.	000.04742-04-0	
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE
		EXPOSURE) (Narcotic effects) - Category 3
		ASPIRATION HAZARD - Category 1
·· · · · · · · · · · · · · · · · · · ·		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
2-methylpropan-1-ol	CAS: 78-83-1	GASES - Category 2 FLAMMABLE LIQUIDS - Category 3
	CA3. 70-03-1	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
ware data and		EXPOSURE) (Narcotic effects) - Category 3
nonylphenol	CAS: 25154-52-3	CORROSIVE TO METALS - Category 1
		ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION - Category 1
		SERIOUS EYE DAMAGE - Category 1
		TOXIC TO REPRODUCTION - Category 2
		AQUATIC HAZARD (ACUTE) - Category 1
		AQUATIC HAZARD (LONG-TERM) - Category 1
Octadecanamide, N,N'-1,6-hexanediylbis [12-hydroxy-	CAS: 55349-01-4	SKIN SENSITIZATION - Category 1B
		AQUATIC HAZARD (LONG-TERM) - Category 4
Solvent naphtha (petroleum), medium	CAS: 64742-88-7	FLAMMABLE LIQUIDS - Category 3
aliph.		
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE
		EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY
		(REPEATED EXPOSURE) - Category 1
		ASPIRATION HAZARD - Category 1
		AQUATIC HAZARD (LONG-TERM) - Category 2
Solvent naphtha (petroleum), light	CAS: 64742-95-6	FLAMMABLE LIQUIDS - Category 3
aromatic		
		SKIN IRRITATION - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE
		EXPOSURE) (Narcotic effects) - Category 3
		ASPIRATION HAZARD - Category 1
va de ne	CAS. 05 47 C	AQUATIC HAZARD (LONG-TERM) - Category 2
xylene	CAS: 95-47-6	FLAMMABLE LIQUIDS - Category 3
		ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2
		Korea (GHS) Page: 12/17

## Section 11. Toxicological information

EYE IRRITATION - Category 2A
TOXIC TO REPRODUCTION - Category 2
SPECIFIC TARGET ORGAN TOXICITY (SINGLE
EXPOSURE) (Respiratory tract irritation) -
Category 3
SPECIFIC TARGET ORGAN TOXICITY (SINGLE
EXPOSURE) (Narcotic effects) - Category 3
SPECIFIC TARGET ORGAN TOXICITY
(REPEATED EXPOSURE) - Category 2
ASPIRATION HAZARD - Category 1

## Section 12. Ecological information

### A. <u>Ecotoxicity</u>

Product/ingredient name	Result	Species	Exposure
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
-	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
Solvent naphtha	NOEL 0.48 mg/l Fresh water	Daphnia	21 days
(petroleum), heavy arom.	-		
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
nonylphenol	Acute EC50 0.056 mg/l Fresh water	Algae - Desmodesmus	72 hours
		subspicatus	
	Chronic EC10 0.003 mg/l Fresh water	Algae - Desmodesmus	72 hours
		subspicatus	
	Chronic NOEC 1 µg/l Fresh water	Daphnia - <i>Daphnia magna</i>	21 days
Solvent naphtha	Acute LC50 8.2 mg/l	Fish	96 hours
(petroleum), light aromatic			

### B. Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
<mark>e</mark> thylbenzene xylene	- OECD 301F		adily - 10 days adily - 28 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
₩ylene ethylbenzene xylene	- -		- -		Readily Readily Readily	

### C. Bioaccumulative potential

Product/ingredient name LogPow		BCF	Potential	
<b>X</b> ylene	3.12	7.4 to 18.5	Low	
ethylbenzene	3.6	79.43	Low	
Solvent naphtha	2.8 to 6.5	-	High	
(petroleum), heavy arom.			Ũ	
2-methylpropan-1-ol	1	-	Low	
1-methoxy-2-propanol	<1	-	Low	
nonylphenol	3.28	154.88	Low	
xylene	3.12	14.13	Low	

Korea (GHS) Page: 13/17

## Section 12. Ecological information

### 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

- 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	Yes. The environmentally hazardous substance mark is not required.	Yes.	Yes. The environmentally hazardous substance mark is not required.
E. Marine pollutant substances	Not applicable.	Solvent naphtha (petroleum), heavy aromatic)	Not applicable.

#### **Additional information**

UN	: None identified.
IMDG	: The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.

### Section 14. Transport information

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)       : None of the components are listed.         ISHA article 118       : None of the components are listed.         (Harmful substances       : None of the components are listed.         (Harmful substances       : None of the components are listed.         (Harmful substances       : It is not allowed to sell to persons under the age of 19.
(Harmful substances         prohibited from         manufacture)         ISHA article 118         (Harmful substances         requiring permission)         Article 2 of Youth Protection         Act on Substances Hazardous
(Harmful substances         requiring permission)         Article 2 of Youth Protection         Act on Substances Hazardous    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: Falc , not containing asbestiform fibres crystalline silica, respirable powder (>10 microns) Xylene ethylbenzene Aluminium powder (stabilized) 2-methylpropan-1-ol 1-methoxy-2-propanol Solvent naphtha (petroleum), medium aliph. xylene
ISHA Enforcement Regs : None of the components are listed. Annex 19 (Exposure standards established for harmful factors)
ISHA Enforcement Regs Annex 21 (Harmful factors subject to Work Environment Measurement) : The following components are listed: talc / soapstone, quartz, xylene, ethyl benzene, aluminum and its compounds, isobutyl alcohol
ISHA Enforcement Regs Annex 22 (Harmful Factors Subject to Special Health Check- up)
Standard of Industrial Safety and Health Annex 12 (Hazardous substances subject to control)
Korea (GHS) Page: 15/17

## Section 15. Regulatory information

В.	. Regulation according to Chemicals Control Act		
	Article 11 (TRI)	;	The following components are listed: Xylene including o-,m-,p- isomer, Ethylbenzene, Aluminium and its compounds, Nonylphenol
	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)	:	The following components are listed: nonylphenols
	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	;	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Ε.	. <u>Regulation according to other foreign laws</u>		
	Safety, health and environmental regulations specific for the product	:	No known specific national and/or regional regulations applicable to this product (including its ingredients).

## Section 16. Other information

Α.	References	:	Korean Ministry of Environment; Chemical Control Act Korean Ministry of Labor; Industrial Safety and Health Act NIER Notice Registry of Toxic Effects of Chemical Substances (RTECS) U.S. Environmental Protection Agency, AQUIRE (Aquatic toxicity Information Retrieval) ECOTOX Database System.
В.	Date of issue/Date of revision	:	12/13/2023
С.	Version	:	3
	Prepared by	:	EHS
D.	Other		

✓ Indicates information that has changed from previously issued version.

### **Disclaimer**

Product code 00445020

Product name SIGMAPRIME 200 BASE GREY

### Section 16. Other information

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.