SAFETY DATA SHEET



use.

Date of issue 7/11/2024 (month/day/year)

Version 1.03

Section 1. Chemical product and company identification

Α.	Product name	1	SIGMAPRIME 200 BASE YEL/GREEN
	Product code	1	000001192386

Other means of identification 00446787; 00446788

Ь.	Product use	 bf the substance or mixture and uses advised against Professional applications, Used by spraying.
	Use of the substance/ mixture	: Coating.
	Uses advised against	: Product is not intended, labelled or packaged for consumer
C.	Supplier's or Importer's information	: PPG SSC (680-090) 19, Yeocheon-ro 217beon-gil, Nam-gu, Ulsan, Korea Tel: +82-52-210-8222 Korea.MSDS@PPG.COM
	Email Address	
	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 (SINGLE EXPOSURE) (Respiratory tract
	irritation) - Category 3
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
	AQUATIC HAZARD (LONG-TERM) - Category 3
	

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

B. GHS label elements, including precautionary statements



Date of issue 7/11/2024 (month/day/year)

Product name SIGMAPRIME 200 BASE YEL/GREEN

Section 2. Hazards identification

Hazard statements	 H226 - Flammable liquid and vapor. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H335 - May cause respiratory irritation. H350 - May cause cancer. H372 - Causes damage to organs through prolonged or repeated exposure. (centra nervous system (CNS), kidneys, liver) H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements	
Prevention	 P202 - Do not handle until all safety precautions have been read and understood. P280 - Wear protective gloves, protective clothing and eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P241 - Use explosion-proof electrical, ventilating or lighting equipment. P242 - Use non-sparking tools. P243 - Take action to prevent static discharges. P273 - Avoid release to the environment. P260 - Do not breathe vapor. P270 - Do not eat, drink or smoke when using this product. P264 - Wash thoroughly after handling.
Response	 P308 + P313 - IF exposed or concerned: Get medical advice or attention. P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell. P362 + P364 - Take off contaminated clothing and wash it before reuse. P302 + P352 - IF ON SKIN: Wash with plenty of water. P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.
Storage	P403 + P233 - Store in a well-ventilated place. Keep container tightly closed. P403 + P235 - Keep cool.
Disposal	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
C. Other hazards which do not result in classification	Prolonged or repeated contact may dry skin and cause irritation. 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.

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 >700 - <1100)</td><td>CAS: 25036-25-3</td><td>10 -<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	10 -<20
iron hydroxide oxide yellow	IRON HYDROXIDE OXIDE	CAS: 51274-00-1	5 - <10
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Section 3. Composition/information on ingredients

Ŭ		
ALUMINUM POWDER	CAS: 7429-90-5	1 - <5
SOLVENT NAPHTHA (PETROLEUM),	CAS: 64742-94-5	1 - <5
HEAVY AROMATIC		
Hydrocarbons, C10-C13, n-alkanes,	CAS: 64742-48-9	1 - <5
isoalkanes, cyclics, < 2% aromatics		
ETHYLBENZENE	CAS: 100-41-4	1 - <5
ISOBUTYL ALCOHOL	CAS: 78-83-1	1 - <5
PROPYLENE GLYCOL MONOMETHYL	CAS: 107-98-2	1 - <5
ETHER		
PHENOLIC RESIN	CAS: 61788-44-1	1 - <5
QUARTZ (<10 microns)	CAS: 14808-60-7	1 - <5
urea, polymer with formaldehyde,	CAS: 68002-18-6	1 - <5
isobutylated		
NAPHTHALENE	CAS: 91-20-3	0.1 - <1
TOLUENE	CAS: 108-88-3	0.1 - <1
	SOLVENT NAPHTHA (PETROLEUM), HEAVY AROMATIC Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics ETHYLBENZENE ISOBUTYL ALCOHOL PROPYLENE GLYCOL MONOMETHYL ETHER PHENOLIC RESIN QUARTZ (<10 microns) urea, polymer with formaldehyde, isobutylated NAPHTHALENE	SOLVENT NAPHTHA (PETROLEUM), HEAVY AROMATICCAS: 64742-94-5Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

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	1	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)

Product name SIGMAPRIME 200 BASE YEL/GREEN

Section 5. Fire-fighting measures

			C
Α.	Extinguishing media		
	Suitable extinguishing media	1	Use dry chemical, CO ₂ , water spray (fog) or foam.
	Unsuitable extinguishing media	-	Do not use water jet.
В.	Specific hazards arising from the chemical	:	Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
	Hazardous thermal decomposition products	:	Decomposition products may include the following materials: carbon oxides nitrogen oxides 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.
1			

Section 6. Accidental release measures

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

precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

C. Methods and materials for containment and cleaning up

Small spill: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and
explosion-proof equipment. Dilute with water and mop up if water-soluble.
Alternatively, or if water-insoluble, absorb with an inert dry material and place in an
appropriate waste disposal container. Dispose of via a licensed waste disposal
contractor.

Section 6. Accidental release measures

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

Section 7. Handling and storage

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

B. Conditions for safe storage, including any incompatibilities
 Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

A. Occupational exposure limits

Ingredient name	Exposure limits
✓alc , not containing asbestiform fibres	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	TWA: 2 mg/m ³ 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 ³ 8 hours. Form:
	Respirable fraction
Xylene	Ministry of Employment and Labor
	(Republic of Korea, 1/2020). [Xylene]
	STEL: 150 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
iron hydroxide oxide yellow	Ministry of Employment and Labor
	(Republic of Korea, 1/2020). [Iron oxide]
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Section 8. Exposure controls/personal protection

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	Respiratory protection Eye protection	hazards of the product and the safe workers are exposed to concentrati appropriate, certified respirators. U	d on known or anticipated exposure levels, the e working limits of the selected respirator. If ions above the exposure limit, they must use lse a properly fitted, air-purifying or air-fed ved standard if a risk assessment indicates this is	
C.	Personal protective equip	oment		
	Environmental exposure controls	they comply with the requirements c	process equipment should be checked to ensure of environmental protection legislation. In some gineering modifications to the process ace emissions to acceptable levels.	
В.	Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.		
	Recommended monitoring procedures		opriate monitoring standards. Reference to ethods for the determination of hazardous	
	Toluene		TWA: 10 ppm 8 hours. Ministry of Employment and Labor (Republic of Korea, 1/2020). STEL: 150 ppm 15 minutes. TWA: 50 ppm 8 hours.	
	naphthalene		Ministry of Employment and Labor (Republic of Korea, 1/2020). Absorbed through skin. STEL: 15 ppm 15 minutes.	
			(Republic of Korea, 1/2020). TWA: 0.05 mg/m ³ 8 hours. Form: Respirable fraction	
	crystalline silica, respirable	powder (<10 microns)	(Republic of Korea, 1/2020). STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours. Ministry of Employment and Labor	
	1-methoxy-2-propanol		(Republic of Korea, 1/2020). TWA: 50 ppm 8 hours. Ministry of Employment and Labor	
	2-methylpropan-1-ol		STEL: 125 ppm 15 minutes. TWA: 100 ppm 8 hours. Ministry of Employment and Labor	
	ethylbenzene		TWA: 10 mg/m ³ 8 hours. Form: Dust Ministry of Employment and Labor (Republic of Korea, 1/2020).	
	Aluminium powder (stabiliz	red)	Fume TWA: 5 mg/m ³ , (as Fe) 8 hours. Ministry of Employment and Labor (Republic of Korea, 1/2020).	
I			TWA: 5 mg/m³, (as Fe) 8 hours. Form:	

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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.

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	Solubility in water	:	Not available.						
			cold water	No	t solubl	e			
L.	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
K.	Vapor pressure	÷		Vapo	r Press	ure at 20°C	Va	por press	sure at 50°C
J.	Lower and upper explosive (flammable) limits	:	Greatest known ran	ge: Lower:	1.48%	Upper: 13.74	% (1-me	ethoxy-2-p	ropanol)
I.	Flammability (solid, gas)	:	Not available.	Not available.					
н.	Evaporation rate	;	Not available.	Jot available.					
G.	Flash point	:	Closed cup: 31°C (8	7.8°F)					
F.	Boiling point/boiling range	1	>37.78°C (>100°F)						
Ε.	Melting/freezing point	;	Not available.						
D.	рН	:	Not applicable.						
С.	Odor threshold		Not available.						
В.	Odor	:	Aromatic. [Slight]						
	Color		Yellow.						
	Physical state	- 21	Liquid.						

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Product name SIGMAPRIME 200 BASE YEL/GREEN

Section 9. Physical and chemical properties

Vapor density: Not available.M.Relative density: 1.47N.Partition coefficient: n-
octanol/water: Not applicable.Auto-ignition:

P. temperature

		Ingredient name	°C	°F	Method
		Solvent naphtha (petroleum), heavy arom.	220 to 250	428 to 482	ASTM E 659
Decomposition temperature	:	Not available.			
Viscosity R.	:	Kinematic (room temperature): >400 mm²/s (>400 cSt) Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)			
Flow time (ISO 2431)	:	Not available.			
Molecular weight	:	Not applicable.			

Section 10. Stability and reactivity

Α.	Chemical stability Possibility of hazardous reactions		The product is stable. 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 Formaldehyde. metal oxide/oxides

Section 11. Toxicological information

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

Potential acute health effects

Inhalation: 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 irritation.Over-exposure signs/symptomsInhalation: Adverse symptoms may include the following:
respiratory tract irritation
coughingIngestion: No specific data.

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Section 11. Toxicological information

Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness

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	-
iron hydroxide oxide yellow	LC50 Inhalation Dusts and mists	Rat	>5.05 mg/l	4 hours
	LD50 Oral	Rat	>10 g/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 arom.	LC50 Inhalation Dusts and mists	Rat	>5.2 mg/l	4 hours
	LD50 Oral	Rat	>5 g/kg	-
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>6 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	-
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
	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	5.2 g/kg	-
Phenol, styrenated	LD50 Dermal	Rabbit	>5010 mg/kg	-
•	LD50 Oral	Rat	3550 mg/kg	-
Urea, polymer with formaldehyde, isobutylated	LD50 Dermal	Rabbit	>5 g/kg	-
-	LD50 Oral	Rat	>5 g/kg	-
naphthalene	LD50 Dermal	Rabbit	>20 g/kg	-
	LD50 Oral	Rat	490 mg/kg	-
Toluene	LC50 Inhalation Vapor	Rat	49 g/m ³	4 hours
	LD50 Dermal	Rabbit	8.39 g/kg	-
	LD50 Oral	Rat	5580 mg/kg	-

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

Irritation/Corrosion

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Section 11. Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
₩ylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Conclusion/Summary		-			

Skin	: There are no data available on the mixture itself.
Eyes	: There are no data available on the mixture itself.

: There are no data available on the mixture itself.

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

Sensitization

Product/ingredient name	Route of	Species	Result
	exposure	oponio	
Phenol, styrenated	skin	Mouse	Sensitizing
Conclusion/Summary			
Skin :	There are no data a	available on the mixture itself.	
Respiratory :	There are no data a	available on the mixture itself.	
<u>Mutagenicity</u> Conclusion/Summary :	There are no data	available on the mixture itself.	
<u>Carcinogenicity</u> Conclusion/Summary :	There are no data	available on the mixture itself.	
Reproductive toxicity Conclusion/Summary	There are no data	available on the mixture itself.	
Teratogenicity			

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

Specific target organ toxicity (single exposure)

Name	Classification	Route of exposure	Target organs
F alc , 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
1-methoxy-2-propanol	Category 3	-	Narcotic effects
Toluene	Category 3	-	Narcotic effects

Specific target organ toxicity (repeated exposure)

Section 11. Toxicological information

Name	Classification	Route of exposure	Target organs
▼ylene	Category 1		central nervous system (CNS), kidneys, liver
Toluene	Category 2	-	-

Aspiration hazard

Name	Result
Solvent naphtha (petroleum), heavy arom.	ASPIRATION HAZARD - Category 1
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2%	ASPIRATION HAZARD - Category 1
aromatics	
ethylbenzene	ASPIRATION HAZARD - Category 1
2-methylpropan-1-ol	ASPIRATION HAZARD - Category 2
Toluene	ASPIRATION HAZARD - Category 1

Potential chronic health effects

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

Additional information

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
${f P}$ 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 (REPEATED EXPOSURE) - Category 1
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Section 11. Toxicological information

iron hydroxide oxide yellow Aluminium powder (stabilized)	CAS: 51274-00-1 CAS: 7429-90-5	Not classified. FLAMMABLE SOLIDS - Category 1 SUBSTANCES AND MIXTURES, WHICH IN
		CONTACT WITH WATER, EMIT FLAMMABLE GASES - Category 2
Solvent naphtha (petroleum), heavy arom.	CAS: 64742-94-5	FLAMMABLE LIQUIDS - Category 4
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	CAS: 64742-48-9	FLAMMABLE LIQUIDS - Category 4
ethylbenzene	CAS: 100-41-4	ASPIRATION HAZARD - Category 1 FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 2 ASPIRATION HAZARD - Category 1
2-methylpropan-1-ol	CAS: 78-83-1	AQUATIC HAZARD (LONG-TERM) - Category 3 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
Phenol, styrenated	CAS: 61788-44-1	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1B AQUATIC HAZARD (LONG-TERM) - Category 2
crystalline silica, respirable powder (<10 microns)	CAS: 14808-60-7	CARCINOGENICITY - Category 1A
Urea, polymer with formaldehyde, isobutylated	CAS: 68002-18-6	AQUATIC HAZARD (LONG-TERM) - Category 4
naphthalene	CAS: 91-20-3	FLAMMABLE SOLIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 CARCINOGENICITY - Category 2
Toluene	CAS: 108-88-3	FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1

Product name SIGMAPRIME 200 BASE YEL/GREEN

Section 12. Ecological information

A. Ecotoxicity

Product/ingredient name	Result	Species	Exposure	
iron hydroxide oxide yellow	Acute LC50 >100000 mg/l	Fish	96 hours	
Solvent naphtha (petroleum), heavy arom.	NOEL 0.48 mg/l Fresh water	Daphnia	21 days	
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours	
-	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-	
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	
Phenol, styrenated	Acute EC50 3.8 mg/l	Daphnia	48 hours	

B. Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
ethylbenzene Phenol, styrenated	- OECD 301F	79 % - Readily - 10 days 7 % - Not readily - 28 days		-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
₩ylene ethylbenzene Phenol, styrenated Toluene	- - -		- - -		Readily Readily Not rea Readily	dily

C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
X ylene	3.12	7.4 to 18.5	Low
Solvent naphtha (petroleum), heavy arom.	2.8 to 6.5	-	High
ethylbenzene	3.6	79.43	Low
2-methylpropan-1-ol	1	-	Low
1-methoxy-2-propanol	<1	-	Low
naphthalene	3.4	85.11	Low
Toluene	2.73	8.32	Low

D. Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

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

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Section 13. Disposal considerations

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 : This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5.1.

- IMDG : This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5.
- 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

Date of issue 7/11/2024 (month/day/year)

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Section 15. Regulatory information

Α.	Regulation according to I	<u>SHA</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	cal Substances and Physical Factors
	The following components Talc , not containing asbes crystalline silica, respirable Xylene iron hydroxide oxide yellow Aluminium powder (stabilit ethylbenzene 2-methylpropan-1-ol 1-methoxy-2-propanol crystalline silica, respirable naphthalene Toluene	stiform fibres powder (>10 microns) / red)
	ISHA Enforcement Regs Annex 19 (Exposure standards established	: The following components are listed: toluene
	for harmful factors) ISHA Enforcement Regs Annex 21 (Harmful factors subject to Work Environment Measurement)	: The following components are listed: talc / soapstone, quartz, xylene, iron oxide, aluminum and its compounds, ethyl benzene, isobutyl alcohol, quartz
	ISHA Enforcement Regs Annex 22 (Harmful Factors Subject to Special Health Check- up)	: The following components are listed: Xylene, Iron oxide (dust, fume), 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, iron and its compounds, aluminum and its compounds, ethyl benzene, isobutyl alcohol
B.	Regulation according to (hemicals Control Act
	Article 11 (TRI)	: The following components are listed: Xylene including o-,m-,p- isomer, Aluminium and its compounds, Ethylbenzene, Naphthalene
	Article 18 Prohibited (K- Reach Article 27)	: None of the components are listed.

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Section 15. Regulatory information

Article 19 Subject to		None of the components are listed.
authorization (K-Reach Article 25)	Ì	
Article 20 Restricted (K- Reach Article 27)	:	None of the components are listed.
Article 20 Toxic Chemicals (K-Reach Article 20)	:	Not applicable
Korea inventory	:	All components are listed or exempted.
Article 39 (Accident	:	None of the components are listed.
Precaution Chemicals)		
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
Wastes regulation	;	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Regulation according to o	oth	<u>er 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).
	Article 25) Article 20 Restricted (K- Reach Article 27) Article 20 Toxic Chemicals (K-Reach Article 20) Korea inventory Article 39 (Accident Precaution Chemicals) Dangerous Materials Safety Management Act Wastes regulation Regulation according to a Safety, health and environmental regulations specific for	authorization (K-Reach Article 25)Article 20 Restricted (K- Reach Article 27)Article 20 ToxicChemicals (K-Reach Article 20)Korea inventoryKorea inventoryArticle 39 (Accident Precaution Chemicals)Dangerous Materials Safety Management ActWastes regulationRegulation according to oth Safety, health and environmental regulations specific for

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	:	8/4/2022
C.	Date of issue/Date of revision	1	7/11/2024
	Varaian	÷.,	4.02

- D. Version : 1.03 **Prepared by** : EHS
- E. Other

Indicates information that has changed from previously issued version.

Disclaimer

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.