## SAFETY DATA SHEET



**Date of issue** 6/27/2024 (month/day/year)

Version 2.01

### Section 1. Chemical product and company identification

: SIGMAPRIME 700 HSE BASE YELLOWGREEN A. Product name **Product code** : 000001099856

Other means of identification 00317123

B. Relevant identified uses of the substance or mixture and uses advised against : Professional applications, Used by spraying. **Product use** Use of the substance/ : Coating. mixture : Product is not intended, labelled or packaged for consumer use. Uses advised against С 

С.	Supplier's or Importer's	: PPG SSC
	information	(680-090)
		19, Yeocheon-ro 217beon-gil, Nam-gu,
		Ulsan, Korea
		Tel: +82-52-210-8222
	Email Address	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 (SINGLE EXPOSURE) (Respiratory tract
	irritation) - Category 3
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
<del></del>	

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



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### 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>H319 - Causes serious eye irritation.</li> <li>H335 - May cause respiratory irritation.</li> <li>H350 - May cause cancer.</li> <li>H372 - Causes damage to organs through prolonged or repeated exposure. (central nervous system (CNS), kidneys, liver)</li> </ul>	
Precautionary statements	S		
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>P260 - Do not breathe vapor.</li> <li>P270 - Do not eat, drink or smoke when using this product.</li> <li>P264 - Wash thoroughly after handling.</li> </ul>	
Response	:	<ul> <li>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 - 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	:	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 &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	10 -<20
iron hydroxide oxide yellow	IRON HYDROXIDE OXIDE	CAS: 51274-00-1	5 - <10
Aluminium powder (stabilized)	ALUMINUM POWDER	CAS: 7429-90-5	1 - <5
Phenol, methylstyrenated	Phenol, methylstyrenated	CAS: 68512-30-1	1 - <5
Hydrocarbons, C10-C13, n-alkanes,	Hydrocarbons, C10-C13, n-alkanes,	CAS: 64742-48-9	1 - <5
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### Section 3. Composition/information on ingredients

•	•		
isoalkanes, cyclics, < 2% aromatics	isoalkanes, cyclics, < 2% aromatics		
oxirane, mono[(C12-14-alkyloxy)methyl]	oxirane, mono[(C12-14-alkyloxy)methyl]	CAS: 68609-97-2	1 - <5
derivs.	derivs		
1-methoxy-2-propanol	PROPYLENE GLYCOL MONOMETHYL	CAS: 107-98-2	1 - <5
	ETHER		
crystalline silica, respirable powder (<10	QUARTZ (<10 microns)	CAS: 14808-60-7	1 - <5
microns)			
ethylbenzene	ETHYLBENZENE	CAS: 100-41-4	1 - <5
2-methylpropan-1-ol	ISOBUTYL ALCOHOL	CAS: 78-83-1	1 - <5
12-hydroxyoctadecanoic acid reaction	12-hydroxyoctadecanoic acid, reaction	CAS: 220926-97-6	1 - <5
products with	products with		
1,3-benzenedimethanamine and	1,3-benzenedimethanamine and		
hexamethylenediamine	hexamethylenediamine		
Cashew, nutshell liq.	CASHEW NUTSHELL LIQUID	CAS: 8007-24-7	1 - <5
Urea, polymer with formaldehyde,	urea, polymer with formaldehyde,	CAS: 68002-18-6	1 - <5
isobutylated	isobutylated		

# 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.	
Ε.	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)

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### 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.
	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).
C. Methods and materials for	СС	ntainment 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.
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.
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#### Section 7. Handling and storage

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

Ministry of Employment and Labor (Republic of Korea, 1/2020).			
TWA: 2 mg/m <sup>3</sup> 8 hours. Form: fibers			
Ministry of Employment and Labor			
(Republic of Korea, 1/2020).			
TWA: 0.05 mg/m <sup>3</sup> 8 hours. Form:			
Respirable fraction			
Ministry of Employment and Labor			
(Republic of Korea, 1/2020). [Xylene]			
STEL: 150 ppm 15 minutes.			
TWA: 100 ppm 8 hours.			
Ministry of Employment and Labor			
(Republic of Korea, 1/2020). [Iron oxide			
TWA: 5 mg/m³, (as Fe) 8 hours. Form:			
TWA: 5 mg/m³, (as Fe) 8 hours.			
Ministry of Employment and Labor			
(Republic of Korea, 1/2020).			
TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Dust			
Ministry of Employment and Labor			
(Republic of Korea, 1/2020).			
STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours.			
Ministry of Employment and Labor			
(Republic of Korea, 1/2020).			
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### Section 8. Exposure controls/personal protection

	ethylbenzene			TWA: 0.05 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction <b>Ministry of Employment and Labor</b> (Republic of Korea, 1/2020). STEL: 125 ppm 15 minutes.	
				TWA: 100 ppm 8 hours. <b>Ministry of Employment and Labor</b> (Republic of Korea, 1/2020). TWA: 50 ppm 8 hours.	
				ACGIH TLV (United States). TWA: 10 mg/m <sup>3</sup> Form: Inhalable particle TWA: 3 mg/m <sup>3</sup> , (inhalable dust) Form: Respirable particle	
				opriate monitoring standards. Reference to ethods 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	:			
C.	Personal protective equip	m	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 s above the exposure limit, they must use a properly fitted, air-purifying or air-fed standard if a risk assessment indicates this is	
	Eye protection	:	Chemical splash goggles.		
	Hand protection	:	be worn at all times when handling che this is necessary. Considering the par check during use that the gloves are s should be noted that the time to break	rers. In the case of mixtures, consisting of	
	Gloves	:	butyl rubber		
	Body protection	:	being performed and the risks involved		

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#### Section 8. Exposure controls/personal protection

**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.

#### A. Appearance

	Physical state	:	Liquid.
	Color	:	Green.
В.	Odor	:	Aromatic.
<b>C</b> .	Odor threshold	:	Not available.
D.	рН	:	Not applicable.
Ε.	Melting/freezing point	:	Not available.
F.	Boiling point/boiling range	:	>37.78°C (>100°F)
~	Electronic t		Classed avery 27°C (C

G. Flash point

H. Evaporation rate

: Closed cup: 37°C (98.6°F) : Not available.

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: Not available.

Not available.

: Not applicable.

- Flammability (solid, gas) : Not available. Ι.
- J. Lower and upper explosive (flammable) limits
- K. Vapor pressure
- Vapor Pressure at 20°C Vapor pressure at 50°C mm Hg Ingredient name kPa Method **kPa** Method mm Hg <12.00102 <1.6 2-methylpropan-1-ol DIN EN 13016-2 Media Result cold water Not soluble

: Greatest known range: Lower: 1.48% Upper: 13.74% (1-methoxy-2-propanol)

- L. Solubility(ies)
- Solubility in water
- Vapor density Μ.
- **Relative density** N.
- Partition coefficient: n-0.
- octanol/water
- **Auto-ignition** Ρ. temperature

Ingredient name	°C	°F	Method
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	>230	>446	

#### **Decomposition** Q.

: Not available.

temperature

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### Section 9. Physical and chemical properties

Viscosity R.

: Kinematic (room temperature): >400 mm<sup>2</sup>/s (>400 cSt) Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt) Flow time (ISO 2431) : Not available. : Not applicable.

Molecular weight S.

### 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 halogenated compounds Formaldehyde. metal oxide/oxides

### Section 11. Toxicological information

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

Potential acute health effects

: May cause respiratory irritation.
: No known significant effects or critical hazards.
: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
: Causes serious eye irritation.
s/symptoms
: Adverse symptoms may include the following: respiratory tract irritation coughing
: No specific data.
: Adverse symptoms may include the following: irritation redness dryness cracking
: Adverse symptoms may include the following: pain or irritation watering redness

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

#### **Acute toxicity**

Product name SIGMAPRIME 700 HSE BASE YELLOWGREEN

### Section 11. Toxicological information

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	_
Phenol, methylstyrenated	LD50 Dermal	Rabbit	>2000 mg/kg	_
	LD50 Oral	Rat	>2000 mg/kg	_
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>6 g/kg	_
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	LD50 Oral	Rat	17100 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	-
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	-
12-hydroxyoctadecanoic acid reaction products with	LC50 Inhalation Dusts and mists	Rat	3.56 mg/l	4 hours
1,3-benzenedimethanamine and	IIIISIS			
hexamethylenediamine				
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
Urea, polymer with formaldehyde, isobutylated	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	>5 g/kg	-

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

#### Irritation/Corrosion

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

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

#### **Sensitization**

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### Section 11. Toxicological information

Product/ingredient name	Route of exposure	Species	Result			
øxirane, mono[ (C12-14-alkyloxy)methyl] derivs.	skin	Guinea pig	Sensitizing			
	Conclusion/Summary         Skin       : There are no data available on the mixture itself.					
Mutagenicity Conclusion/Summary : There are no data available on the mixture itself.						
<b>Conclusion/Summary</b> : There are no data available on the mixture itself.						
Reproductive toxicity Conclusion/Summary :	There are no dat	a available on the mixture its	elf.			
<u>Teratogenicity</u> Conclusion/Summary :	There are no dat	a available on the mixture its	elf.			

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

Name	Classification	Route of exposure	Target organs
Talc , not containing asbestiform fibres	Category 3	-	Respiratory tract irritation
Xylene	Category 3	-	Narcotic effects
1-methoxy-2-propanol	Category 3	-	Narcotic effects
2-methylpropan-1-ol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects

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

Name	Classification	Route of exposure	Target organs
Kylene	Category 1		central nervous system (CNS), kidneys, liver
12-hydroxyoctadecanoic acid reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	Category 2	-	-

#### **Aspiration hazard**

Name	Result
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	ASPIRATION HAZARD - Category 1
ethylbenzene 2-methylpropan-1-ol	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 2

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#### Section 11. Toxicological information

#### Potential chronic health effects

General	: Causes damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: May cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: 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
$\overline{\mathbf{V}}$ 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
iron hydroxide oxide yellow	CAS: 51274-00-1	Not classified.
Aluminium powder (stabilized)	CAS: 7429-90-5	FLAMMABLE SOLIDS - Category 1 SUBSTANCES AND MIXTURES, WHICH IN CONTACT WITH WATER, EMIT FLAMMABLE GASES - Category 2
Phenol, methylstyrenated	CAS: 68512-30-1	SKIN IRRITATION - Category 2 SKIN SENSITIZATION - Category 1B AQUATIC HAZARD (LONG-TERM) - Category 3
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	CAS: 64742-48-9	FLAMMABLE LIQUIDS - Category 4
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	CAS: 68609-97-2	ASPIRATION HAZARD - Category 1 SKIN IRRITATION - Category 2
1-methoxy-2-propanol	CAS: 107-98-2	SKIN SENSITIZATION - Category 1B FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE
crystalline silica, respirable powder (<10	CAS: 14808-60-7	EXPOSURE) (Narcotic effects) - Category 3 CARCINOGENICITY - Category 1A
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### Section 11. Toxicological information

U		
microns)		
ethylbenzene 2-methylpropan-1-ol	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 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
12-hydroxyoctadecanoic acid reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	CAS: 220926-97-6	ASPIRATION HAZARD - Category 2 ACUTE TOXICITY (oral) - Category 4
		ACUTE TOXICITY (inhalation) - Category 4 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
Cashew, nutshell liq.	CAS: 8007-24-7	ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1B AQUATIC HAZARD (LONG-TERM) - Category 4
Urea, polymer with formaldehyde, isobutylated	CAS: 68002-18-6	AQUATIC HAZARD (LONG-TERM) - Category 4

### Section 12. Ecological information

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

Product/ingredient name	Result	Species	Exposure
ron hydroxide oxide yellow	Acute LC50 >100000 mg/l	Fish	96 hours
oxirane, mono[	LC50 >100 mg/l	Fish	96 hours
(C12-14-alkyloxy)methyl]			
derivs.			
1-methoxy-2-propanol	Acute LC50 23300 mg/l	Daphnia	48 hours
	Acute LC50 >4500 mg/l Fresh water	Fish	96 hours
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
12-hydroxyoctadecanoic	Acute EC50 >100 mg/l	Algae - Pseudokirchneriella	72 hours
acid reaction products with		subcapitata (microalgae)	
1,3-benzenedimethanamine and hexamethylenediamine			
	Acute EC50 >100 mg/l	Daphnia - <i>Daphnia magna</i>	48 hours
		(Water flea)	40 110013
	Acute LC50 >100 mg/l	Fish - Oncorhynchus mykiss	96 hours
		(rainbow trout)	oo nouro
	Chronic NOEC 100 mg/l	Algae - Pseudokirchneriella	72 hours
		subcapitata	
	Chronic NOEC ≥50 mg/l	Daphnia - <i>Daphnia magna</i>	21 days

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### Section 12. Ecological information

(Water flea)

#### B. Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
ethylbenzene 12-hydroxyoctadecanoic acid reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	- OECD 301D Ready Biodegradability - Closed Bottle Test		9 % - Readily - 10 days % - Not readily - 29 days			
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	<b>Jradability</b>
<b>X</b> ylene ethylbenzene	-		-		Readily Readily	

#### C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
<b>X</b> ylene	3.12	7.4 to 18.5	Low
Phenol, methylstyrenated	3.627	-	Low
oxirane, mono[	3.77	-	Low
(C12-14-alkyloxy)methyl]			
derivs.			
1-methoxy-2-propanol	<1	-	Low
ethylbenzene	3.6	79.43	Low
2-methylpropan-1-ol	1	-	Low
12-hydroxyoctadecanoic	>6	-	High
acid reaction products with			
1,3-benzenedimethanamine			
and hexamethylenediamine			
Cashew, nutshell liq.	>4.78	-	High

#### D. Mobility in soil

Soil/water partition : Not available. coefficient (Koc)

E. Other adverse effects : No known significant effects or critical hazards.

### Section 13. Disposal considerations

: The generation of waste should be avoided or minimized wherever possible. A. Disposal methods 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.

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#### Section 13. Disposal considerations

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.
ΙΑΤΑ	: None identified.

### F. Special precaution which a user to be aware of or needs to comply with in connection with transport or transportation

**Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not applicable. to IMO instruments

### Section 15. Regulatory information

Α.	A. <u>Regulation according to ISHA</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.		

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### Section 15. Regulatory information

	-					
	Article 2 of Youth Protection Act on Substances Hazardous to Youth	-	It is not allowed to sell to persons under the age of 19.			
	Exposure Limits of Chemical Substances and Physical Factors					
	The following components have an OEL: Talc , not containing asbestiform fibres crystalline silica, respirable powder (>10 microns) Xylene iron hydroxide oxide yellow Aluminium powder (stabilized) 1-methoxy-2-propanol crystalline silica, respirable powder (<10 microns) ethylbenzene 2-methylpropan-1-ol 12-hydroxyoctadecanoic acid reaction products with 1,3-benzenedimethanamine and hexamethylenediamine					
	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, iron oxide, aluminum and its compounds, quartz, ethyl benzene, isobutyl alcohol			
	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			
В.	Regulation according to (	<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.			
	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	:	🕅 components are listed or exempted.			
	Article 39 (Accident Precaution Chemicals)	:	None of the components are listed.			

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### Section 15. Regulatory information

C. <u>Dangerous Materials</u> <u>Safety Management Act</u>	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. <u>Wastes regulation</u>	Dispose of contents and container in accordance with all local, regional, nation and international regulations.	nal
E. Regulation according to	<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 produ (including its ingredients).	uct

### 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	:	1/13/2021
C.	Date of issue/Date of revision	:	6/27/2024
D.	Version	:	2.01
	Prepared by	:	EHS
_	011		

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.