# **SAFETY DATA SHEET**



Date of issue 1/1/2025 (month/day/year)

Version 12

# Section 1. Chemical product and company identification

A. Product name : SIGMAPRIME 700 BASE REDBROWN

Product code : 00394166

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

**Product use** : Professional applications, Used by spraying.

Use of the substance/

mixture

: Coating.

**Uses advised against**: Product is not intended, labelled or packaged for consumer use.

C. Supplier's or Importer's

information

**Email Address** 

: PPG SSC (680-090)

19, Yeocheon-ro 217beon-gil, Nam-gu,

Ulsan, Korea

Tel: +82-52-210-8222 Korea.MSDS@PPG.COM

**Emergency telephone** 

number:

: +82-52-210-8331

## Section 2. Hazards identification

A. Hazard classification : AMMABLE LIQUIDS - Category 3

ACUTE TOXICITY (inhalation) - Category 4

SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 1A

TOXIC TO REPRODUCTION - Category 1B

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract

irritation) - Category 3

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 This product is classified in accordance with the Industrial Safety and Health Act and

the Chemical Control Act.

B. GHS label elements, including precautionary statements

Symbol









Signal word : Danger

Korea (GHS) Page: 1/16

**Product name SIGMAPRIME 700 BASE REDBROWN** 

### Section 2. Hazards identification

Hazard statements : F226 - Flammable liquid and vapor.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H318 - Causes serious eye damage.

H332 - Harmful if inhaled.

H335 - May cause respiratory irritation.

H350 - May cause cancer.

H360 - May damage fertility or the unborn child.

H372 - Causes damage to organs through prolonged or repeated exposure. (central nervous system (CNS), kidneys, liver)

### **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.

P241 - Use explosion-proof electrical, ventilating or lighting equipment.

P242 - Use non-sparking tools.

P243 - Take action to prevent static discharges.

P240 - Ground and bond container and receiving equipment.

P260 - Do not breathe vapor.

P270 - Do not eat, drink or smoke when using this product.

P264 - Wash thoroughly after handling.

Response

: P370 + P378 - In case of fire: Never use water to extinguish.

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. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated

clothing. Rinse skin with water or shower.

P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention. 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. Immediately call a POISON CENTER or doctor.

P321 - Specific treatment (see the label).

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.

Korea (GHS) Page: 2/16

**Product name SIGMAPRIME 700 BASE REDBROWN** 

# Section 3. Composition/information on ingredients

Chemical name	Common name	Identifiers	%
rystalline silica, respirable powder (<10 microns)	QUARTZ (<10 microns)	CAS: 14808-60-7	20 - <30
		EC: 238-878-4	
Talc , not containing asbestiform fibres	Talc, non-asbestos form	CAS: 14807-96-6	20 - <30
		EC: 238-877-9	
Epoxy Resin (700 <mw<=1100)< td=""><td>EPOXY RESIN (AVERAGE MOLECULAR WEIGHT &gt;700 - &lt;1100)</td><td>CAS: 25036-25-3</td><td>10 -&lt;20</td></mw<=1100)<>	EPOXY RESIN (AVERAGE MOLECULAR WEIGHT >700 - <1100)	CAS: 25036-25-3	10 -<20
Xylene	XYLENES	CAS: 1330-20-7 EC: 215-535-7	10 -<20
Cashew, nutshell liq.	CASHEW NUTSHELL LIQUID	CAS: 8007-24-7 EC: 232-355-4	1 - <5
ethylbenzene	ETHYLBENZENE	CAS: 100-41-4 EC: 202-849-4	1 - <5
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	CAS: 68609-97-2	1 - <5
		EC: 271-846-8	
Aluminium powder (stabilized)	ALUMINUM POWDER	CAS: 7429-90-5 EC: 231-072-3	1 - <5
Solvent naphtha (petroleum), heavy arom.	SOLVENT NAPHTHA (PETROLEUM), HEAVY AROMATIC	CAS: 64742-94-5	1 - <5
		EC: 265-198-5	
diiron trioxide	Diiron trioxide	CAS: 1309-37-1	1 - <5
dill off trioxide	Billott trioxido	EC: 215-168-2	
Urea, polymer with formaldehyde, butylated	UREA-FORMALDEHYDE RESIN, BUTYLATED	CAS: 68002-19-7	1 - <5
2-methylpropan-1-ol	ISOBUTYL ALCOHOL	CAS: 78-83-1 EC: 201-148-0	1 - <5
4-methylpentan-2-one	4-METHYLPENTAN-2-ONE / METHYL ISOBUTYL KETONE	CAS: 108-10-1	0.1 - <1
		EC: 203-550-1	

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

Section 4. 1 iis	ot alu illeasures
A. Eye contact	<ul> <li>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.</li> </ul>
B. 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	<ul> <li>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.</li> </ul>
D. Ingestion	: If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.

Korea (GHS) Page: 3/16

**Product name SIGMAPRIME 700 BASE REDBROWN** 

### Section 4. First aid measures

E. 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

: No specific treatment.

**Protection of first-aiders** 

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

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

A. Extinguishing media

Suitable extinguishing media

: Use dry chemical, CO2, water spray (fog) or foam.

illeula

Unsuitable extinguishing media

: Do not use water jet.

B. 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. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

B. Environmental precautions

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

C. Methods and materials for containment and cleaning up

Korea (GHS) Page: 4/16

Date of issue 1/1/2025 (month/day/year) Version 12

Product code 00394166

**Product name SIGMAPRIME 700 BASE REDBROWN** 

### 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

### A. 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. Avoid exposure during pregnancy. 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.
- 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
crystalline silica, respirable powder (<10 microns)	ISHA Article 42 (Republic of Korea, 1/2020)
	TWA 8 hours: 0.05 mg/m³. Form:
Talc , not containing asbestiform fibres	Respirable fraction.  ISHA Article 42 (Republic of Korea,
	1/2020)
	TWA 8 hours: 2 mg/m³ (as asbestos). Form: fibers.

Korea (GHS) Page: 5/16

**Product name SIGMAPRIME 700 BASE REDBROWN** 

### Section 8. Exposure controls/personal protection

Xylene	ISHA Article 42 (Republic of Korea,
	1/2020) [Xylene]
	STEL 15 minutes: 150 ppm.
	TWA 8 hours: 100 ppm.
ethylbenzene	ISHA Article 42 (Republic of Korea,
	1/2020)
	STEL 15 minutes: 125 ppm.
	TWA 8 hours: 100 ppm.
Aluminium powder (stabilized)	ISHA Article 42 (Republic of Korea,
	1/2020)
	TWA 8 hours: 10 mg/m³. Form: Dust.
diiron trioxide	ISHA Article 42 (Republic of Korea,
	1/2020) [Iron oxide]
	TWA 8 hours: 5 mg/m³ (as Fe). Form:
	Fume.
	TWA 8 hours: 5 mg/m³ (as Fe).
2-methylpropan-1-ol	ISHA Article 42 (Republic of Korea,
	1/2020)
	TWA 8 hours: 50 ppm.
4-methylpentan-2-one	ISHA Article 42 (Republic of Korea,

Recommended monitoring procedures

: Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

1/2020)

STEL 15 minutes: 75 ppm. TWA 8 hours: 50 ppm.

B. 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.

**Environmental exposure controls** 

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### C. Personal protective equipment

**Respiratory protection** 

: Respirator selection must be based on known or anticipated exposure levels, the 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 Hand protection : Chemical splash goggles and face shield.

: 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

Korea (GHS) Page: 6/16

**Product name SIGMAPRIME 700 BASE REDBROWN** 

### Section 8. Exposure controls/personal protection

estimated.

**Gloves** butyl rubber

: Personal protective equipment for the body should be selected based on the task **Body protection** 

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.

Wash hands, forearms and face thoroughly after handling chemical products, before **Hygiene measures** 

> 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 evewash 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 Brownish-red. B. Odor Characteristic. : Not available. C. Odor threshold D. pH : Not applicable. E. Melting/freezing point : Not available. F. Boiling point/boiling

range

: >37.78°C (>100°F)

G. Flash point : Closed cup: 27°C (80.6°F)

H. Evaporation rate Not available. Flammability (solid, gas) : Not available. J. Lower and upper : Not available.

explosive (flammable)

limits

K. Vapor pressure

	Vapor Pressure at 20°C			Vapo	r pressu	re at 50°C
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
2-methylpropan-1-ol	<12.00102	<1.6	DIN EN 13016-2			

Media Result L. Solubility(ies)

> cold water Not soluble

Solubility in water : Not available. Vapor density Not available.

**Relative density** : 1.22

Partition coefficient: n-

octanol/water

: Not applicable.

**Auto-ignition** 

temperature

Korea (GHS) Page: 7/16

**Product name SIGMAPRIME 700 BASE REDBROWN** 

### Section 9. Physical and chemical properties

P.

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

Q. Decomposition temperature

: Not available.

R. Viscosity

Dynamic (room temperature): Not available.
 Kinematic (room temperature): Not available.
 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

A. Chemical stability : The product is stable.

Possibility of hazardous reactions

Possibility of hazardous: Under normal conditions of storage and use, hazardous reactions will not occur.

B. 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 : 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

decomposition products

Inhalation : Harmful if inhaled. May cause respiratory irritation.

**Ingestion**: No known significant effects or critical hazards.

**Skin contact**: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.

**Eye contact** : Causes serious eye damage.

Over-exposure signs/symptoms

**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

reduced fetal weight increase in fetal deaths skeletal malformations

Korea (GHS) Page: 8/16

**Product name SIGMAPRIME 700 BASE REDBROWN** 

### **Section 11. Toxicological information**

Ingestion : Adverse symptoms may include the following:

stomach pains reduced fetal weight increase in fetal deaths skeletal malformations

**Skin contact**: Adverse symptoms may include the following:

pain or irritation

redness dryness cracking

blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations

**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)< td=""><td>LD50 Dermal</td><td>Rat</td><td>&gt;2000 mg/kg</td><td>-</td></mw<=1100)<>	LD50 Dermal	Rat	>2000 mg/kg	-
,	LD50 Oral	Rat	>2000 mg/kg	-
Xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
·	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	LD50 Dermal	Rabbit	>4000 mg/kg	-
	LD50 Oral	Rat	17100 mg/kg	-
Aluminium powder (stabilized)	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours
	LD50 Oral	Rat	>15900 mg/kg	-
Solvent naphtha (petroleum), heavy arom.	LC50 Inhalation Dusts and mists	Rat	>5.2 mg/l	4 hours
	LD50 Oral	Rat	>5 g/kg	-
diiron trioxide	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours
	LD50 Oral	Rat	10 g/kg	-
2-methylpropan-1-ol	LC50 Inhalation Vapor	Rat	24.6 mg/l	4 hours
7	LD50 Dermal	Rabbit	2460 mg/kg	-
	LD50 Oral	Rat	2830 mg/kg	-
4-methylpentan-2-one	LC50 Inhalation Vapor	Rat	11 mg/l	4 hours
•	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	2.08 g/kg	-

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

**Irritation/Corrosion** 

Korea (GHS) Page: 9/16

#### **Product name SIGMAPRIME 700 BASE REDBROWN**

### **Section 11. Toxicological information**

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

**Conclusion/Summary** 

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

**Sensitization** 

**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.

**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
Talc , not containing asbestiform fibres	Category 3	-	Respiratory tract irritation
Xylene	Category 3	-	Narcotic effects
Solvent naphtha (petroleum), heavy arom.	Category 3	-	Narcotic effects
2-methylpropan-1-ol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
4-methylpentan-2-one	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects

### Specific target organ toxicity (repeated exposure)

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

### **Aspiration hazard**

Korea (GHS) Page: 10/16

Product code 00394166	Date of issue 1/1/2025 (month/day/year)	Version 12
Product name SIGMAPRIME 700 BASE REDBROW	'N	

# **Section 11. Toxicological information**

Name	Result
Solvent naphtha (petroleum), heavy arom.	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 2

### Potential chronic health effects

General : Causes damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

Once sensitized, a severe allergic reaction may occur when subsequently exposed to

very low levels.

**Carcinogenicity**: May cause cancer. Risk of cancer depends on duration and level of exposure.

**Mutagenicity**: No known significant effects or critical hazards.

**Reproductive toxicity**: May damage fertility or the unborn child.

### **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
rystalline silica, respirable powder (<10 microns)	CAS: 14808-60-7	CARCINOGENICITY - Category 1A
,	EC: 238-878-4	
Talc , not containing asbestiform fibres	CAS: 14807-96-6	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
	EC: 238-877-9	0 ,
Epoxy Resin (700 <mw<=1100)< td=""><td>CAS: 25036-25-3</td><td>SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1B</td></mw<=1100)<>	CAS: 25036-25-3	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1B
Xylene	CAS: 1330-20-7 EC: 215-535-7	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
Cashew, nutshell liq.	CAS: 8007-24-7 EC: 232-355-4	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
ethylbenzene	CAS: 100-41-4 EC: 202-849-4	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 2 ASPIRATION HAZARD - Category 1

Korea (GHS) Page: 11/16

Product code	00394166	Date of issue	1/1/2025 (month/day/year)	Version 12
la	0101117771177			

### **Product name SIGMAPRIME 700 BASE REDBROWN**

# Section 11. Toxicological information

	T .	
oxirane, mono[(C12-14-alkyloxy)methyl]	CAS: 68609-97-2	AQUATIC HAZARD (LONG-TERM) - Category 3 SKIN IRRITATION - Category 2
delive.	EC: 271-846-8	EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1B TOXIC TO REPRODUCTION - Category 1B
Aluminium powder (stabilized)	CAS: 7429-90-5 EC: 231-072-3	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
	EC: 265-198-5	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2
diiron trioxide	CAS: 1309-37-1 EC: 215-168-2	Not classified.
Urea, polymer with formaldehyde, butylated	CAS: 68002-19-7	AQUATIC HAZARD (LONG-TERM) - Category 4
2-methylpropan-1-ol	CAS: 78-83-1 EC: 201-148-0	FLAMMABLE LIQUIDS - Category 3 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 2
4-methylpentan-2-one	CAS: 108-10-1 EC: 203-550-1	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3

# Section 12. Ecological information

### A. **Ecotoxicity**

Product/ingredient name	Result	Species	Exposure
<b>e</b> thylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
oxirane, mono[	EC50 844 mg/l	Algae	72 hours
(C12-14-alkyloxy)methyl]			
derivs.			
	EC50 7.2 mg/l	Daphnia	48 hours
	LC50 >1.8 mg/l	Fish	96 hours
Solvent naphtha	NOEL 0.48 mg/l Fresh water	Daphnia	21 days
(petroleum), heavy arom.			
diiron trioxide	Acute EC50 >100 mg/l	Daphnia	48 hours
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
4-methylpentan-2-one	Acute LC50 >179 mg/l	Fish	96 hours

Korea (GHS) Page: 12/16

Date of issue 1/1/2025 (month/day/year) Version 12

**Product name SIGMAPRIME 700 BASE REDBROWN** 

### **Section 12. Ecological information**

### B. Persistence and degradability

Product code 00394166

Product/ingredient name	Test	Result	Dose	Inoculum
<b>e</b> thylbenzene	-	79 % - Readily - 10 days	-	-
oxirane, mono[	OECD 301F	87 % - Readily - 28 days	-	-
(C12-14-alkyloxy)methyl]	Ready			
derivs.	Biodegradability			
	- Manometric			
	Respirometry			
	Test			
4-methylpentan-2-one	OECD 301F	83 % - Readily - 28 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Kylene ethylbenzene oxirane, mono[ (C12-14-alkyloxy)methyl] derivs.	- - -	-	Readily Readily Readily
4-methylpentan-2-one	-	-	Readily

#### C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Kylene	3.12	7.4 to 18.5	Low
Cashew, nutshell liq.	>4.78	-	High
ethylbenzene	3.6	79.43	Low
oxirane, mono[	3.77	160 to 263	Low
(C12-14-alkyloxy)methyl] derivs.			
Solvent naphtha (petroleum), heavy arom.	2.8 to 6.5	-	High
2-methylpropan-1-ol	1	-	Low
4-methylpentan-2-one	1.9	-	Low

### D. Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

E. Other adverse effects : 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.

Korea (GHS) Page: 13/16

Date of issue 1/1/2025 (month/day/year) Version 12

**Product name SIGMAPRIME 700 BASE REDBROWN** 

### **Section 13. Disposal considerations**

### **B.** Disposal precautions

Product code 00394166

: 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	IATA
A. UN number	UN1263	UN1263	UN1263
B. UN proper shipping name	PAINT	PAINT	PAINT
C. Transport hazard class(es)	3	3	3
D. Packing group	III	III	III
Environmental hazards	No.	No.	No.
E. Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

### **Additional information**

UN : None identified.IMDG : None identified.IATA : None identified.

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

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

Transport in bulk according : Not applicable. to IMO instruments

# Section 15. Regulatory information

#### A. Regulation according to ISHA

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.

Korea (GHS) Page: 14/16

**Product name SIGMAPRIME 700 BASE REDBROWN** 

### 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:

**ISHA Enforcement Regs**: None of the components are listed.

**Annex 19 (Exposure** standards established for harmful factors)

**ISHA Enforcement Regs** Annex 11-5 (Harmful factors subject to Work

aluminum and its compounds, iron oxide, isobutyl alcohol

: The following components are listed: quartz, talc / soapstone, xylene, ethyl benzene,

**Environment** 

**Measurement)** 

**ISHA Enforcement Regs Annex 22 (Harmful Factors Subject to Special Health Check-** : The following components are listed: Xylene, Ethyl benzene, Aluminum and its compounds, Iron oxide (dust, fume), Isobutyl alcohol

up) **Standard of Industrial Safety and Health Annex 12 (Hazardous** 

: The following components are listed: xylene, ethyl benzene, aluminum and its compounds, iron and its compounds, isobutyl alcohol

substances subject to control)

#### B. 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

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 Article 39 (Accident**  : All components are listed or exempted. : None of the components are listed.

**Precaution Chemicals**) C. <u>Dangerous Materials</u> Safety Management Act

: Class: Class 4 - Flammable Liquid

and international regulations.

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

#### E. Regulation according to other foreign laws

Korea (GHS) Page: 15/16

**Product name SIGMAPRIME 700 BASE REDBROWN** 

### **Section 15. Regulatory information**

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

A. 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.

**B. First issue date** : 10/7/2019 **C. Date of issue/Date of** : 1/1/2025

revision

D. Version : 12
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.

Korea (GHS) Page: 16/16