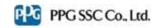
SAFETY DATA SHEET



Date of issue 4/22/2020 (month/day/year)

Version 2

Section 1. Chemical product and company identification

: SIGMAPRIME 700 BASE YELLOW GREEN A. Product name

Product code : 00438617

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

Product use : Professional applications, Used by spraying. : Coating. Paint. Painting-related materials. Use of the substance/

mixture

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

C. Supplier's information : 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:

Email Address

: +82-52-210-8222

Section 2. Hazards identification

AMMABLE LIQUIDS - Category 3 A. Hazard classification

SKIN CORROSION/IRRITATION - Category 2

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2

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

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: 1/15

Product name SIGMAPRIME 700 BASE YELLOW 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. (central

nervous system (CNS), kidneys, liver)

Precautionary statements

Prevention

: P201 - Obtain special instructions before use.

P280 - Wear protective gloves. Wear protective clothing. Wear 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.

P260 - Do not breathe vapor.

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

P264 - Wash thoroughly after handling.

: P312 - Call a POISON CENTER or doctor if you feel unwell. Response

P308 + P313 - IF exposed or concerned: Get medical advice or attention. 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.

: P403 + P233 - Store in a well-ventilated place. Keep container tightly closed. **Storage**

P403 + P235 - Keep cool.

: P501 - Dispose of contents and container in accordance with all local, regional, **Disposal**

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	%
√alc , not containing asbestiform fibres	Talc, non-asbestos form	CAS: 14807-96-6	20 - <30
crystalline silica, respirable powder (<10 microns)	QUARTZ (<10 microns)	CAS: 14808-60-7	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
Xylene	XYLENES	CAS: 1330-20-7	10 -<20
iron hydroxide oxide	IRON HYDROXIDE OXIDE	CAS: 20344-49-4	1 - <5
Aluminium powder (stabilized)	ALUMINUM POWDER	CAS: 7429-90-5	1 - <5
Phenol, methylstyrenated	Phenol, methylstyrenated	CAS: 68512-30-1	1 - <5
oxirane, mono[(C12-14-alkyloxy)methyl]	oxirane, mono[(C12-14-alkyloxy)methyl]	CAS: 68609-97-2	1 - <5

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Product code 00438617 Date of issue 4/22/2020 (month/day/year) Version 2
Product name SIGMAPRIME 700 BASE YELLOW GREEN

Section 3. Composition/information on ingredients

L			
derivs.	derivs		
1,2,4,5-tetramethylbenzene	1,2,4,5-tetramethylbenzene	CAS: 95-93-2	1 - <5
1-methoxy-2-propanol	PROPYLENE GLYCOL MONOMETHYL	CAS: 107-98-2	1 - <5
	ETHER		
ethylbenzene	ETHYLBENZENE	CAS: 100-41-4	1 - <5
2-methylpropan-1-ol	ISOBUTYL ALCOHOL	CAS: 78-83-1	1 - <5
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		
4-methylpentan-2-one	4-METHYLPENTAN-2-ONE / METHYL	CAS: 108-10-1	0.1 - <1
	ISOBUTYL KETONE		

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

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

SUB codes represent substances without registered CAS Numbers.

Section 4. First aid measures

A. Eye contact	: Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids
	anart for at least 10 minutes and seek immediate medical advice

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	: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is
	irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by
	trained personnel.

- D. Ingestion : If swallowed, seek medical advice immediately and show this container or label.
 Keep person warm and at rest. Do NOT induce vomiting.
- E. Notes to physician
 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.
 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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Product name SIGMAPRIME 700 BASE YELLOW GREEN

Section 5. Fire-fighting measures

A. Extinguishing media

Suitable extinguishing media

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

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. 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 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.

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

A. Precautions for safe handling

- Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. 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 non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. 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
▼alc , not containing asbestiform fibres	Ministry of Employment and Labor (Republic of Korea, 7/2018).
crystalline silica, respirable powder (<10 microns)	TWA: 2 mg/m³ 8 hours. Form: fibers Ministry of Employment and Labor (Republic of Korea, 7/2018).
	TWA: 0.05 mg/m³ 8 hours. Form: Respirable fraction
Xylene	Ministry of Employment and Labor (Republic of Korea, 7/2018).
	STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours.
Aluminium powder (stabilized)	Ministry of Employment and Labor (Republic of Korea, 7/2018).
1-methoxy-2-propanol	TWA: 10 mg/m³ 8 hours. Form: Dust Ministry of Employment and Labor (Population of Koron, 7/2018)
	(Republic of Korea, 7/2018). STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours.
ethylbenzene	Ministry of Employment and Labor (Republic of Korea, 7/2018).
	STEL: 125 ppm 15 minutes. TWA: 100 ppm 8 hours.

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Product name SIGMAPRIME 700 BASE YELLOW GREEN

Section 8. Exposure controls/personal protection

2-methylpropan-1-ol Ministry of Employment and Labor (Republic of Korea, 7/2018).

TWA: 50 ppm 8 hours.

4-methylpentan-2-one Ministry of Employment and Labor (Republic of Korea, 7/2018).

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

Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. 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.

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.

: 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.

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Product name SIGMAPRIME 700 BASE YELLOW GREEN

Section 9. Physical and chemical properties

A. Appearance

Physical state : Liquid. Color : Green. B. Odor Aromatic. C. Odor threshold : Not available. D. pH : Not available. E. Melting/freezing point : Not available. F. Boiling point/boiling : >37.78°C (>100°F)

range

G. Flash point : Closed cup: 25°C (77°F)

H. Evaporation rate : Not available. Flammability (solid, gas) : Not available.

J. Lower and upper explosive (flammable)

limits

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

K. Vapor pressure : Not available.

L. Solubility : Insoluble in the following materials: cold water.

M. Vapor density : Not available.

: 1.24 N. Relative density

O. Partition coefficient: n-: Not available.

octanol/water

: Not available.

P. Auto-ignition

temperature

Q. Decomposition temperature

: Kinematic (40°C (104°F)): >0.21 cm²/s (>21 cSt) R. Viscosity

Not available.

S. Molecular weight : Not applicable.

Section 10. Stability and reactivity

A. Chemical stability : The product is stable.

Possibility of hazardous

decomposition products

reactions

: 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.

Depending on conditions, decomposition products may include the following D. Hazardous

materials: carbon oxides nitrogen oxides halogenated compounds Formaldehyde.

metal oxide/oxides

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Product name SIGMAPRIME 700 BASE YELLOW GREEN

Section 11. Toxicological information

A. Information on the likely routes of exposure

: Not available.

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/symptoms

Inhalation : Adverse symptoms may include the following:

respiratory tract irritation

coughing

Ingestion: No specific data.

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)< td=""><td>LD50 Dermal</td><td>Rat</td><td>>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	-
iron hydroxide oxide	LC50 Inhalation Dusts and mists	Rat	>20 mg/l	4 hours
	LD50 Oral	Rat - Male	>10000 mg/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	-
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	LD50 Oral	Rat	17100 mg/kg	-
1,2,4,5-tetramethylbenzene	LD50 Oral	Rat	6700 mg/kg	-
1-methoxy-2-propanol	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	-
Urea, polymer with formaldehyde, isobutylated	LD50 Dermal	Rabbit	>5 g/kg	-

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Section 11. Toxicological information

	LD50 Oral	Rat	>5 g/kg	-
4-methylpentan-2-one	LC50 Inhalation Vapor	Rat	12.3 mg/l	4 hours
	LD50 Oral	Rat	2.08 g/kg	-

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

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Xylene	Skin - Moderate irritant	Rabbit	1	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

Product/ingredient name	Route of exposure	Species	Result
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	skin	Guinea pig	Sensitizing

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
▼alc , not containing asbestiform fibres	Category 3	-	Respiratory tract irritation
Xylene	Category 3	-	Narcotic effects
1,2,4,5-tetramethylbenzene	Category 3	-	Respiratory tract irritation
1-methoxy-2-propanol	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

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Section 11. Toxicological information				
		irritation		

Specific target organ toxicity (repeated exposure)

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

Aspiration hazard

Name	Result
	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.
 Teratogenicity : No known significant effects or critical hazards.
 Developmental effects : No known significant effects or critical hazards.
 Fertility effects : No known significant effects or critical hazards.

Additional information

Sanding and grinding dusts may be harmful if inhaled. This product contains crystalline silica which can cause lung cancer or silicosis. The risk of cancer depends on the duration and level of exposure to dust from sanding surfaces or mist from spray applications. 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. This product either contains formaldehyde or is capable of releasing formaldehyde above 0.5 ppm under certain conditions. Formaldehyde is a known cancer hazard, a skin sensitizer and a respiratory sensitizer. Avoid contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated.

Chemical name	Common name	CAS#	GHS Classification
✓alc , not containing asbestiform fibres	Talc, non-asbestos form	14807-96-6	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
crystalline silica, respirable powder (<10 microns)	QUARTZ (<10 microns)	14808-60-7	CARCINOGENICITY - Category 1A
Epoxy Resin (700 <mw <="1100)</td"><td>EPOXY RESIN (AVERAGE MOLECULAR WEIGHT >700 - <1100)</td><td>25036-25-3</td><td>SKIN CORROSION/IRRITATION - Category 2</td></mw>	EPOXY RESIN (AVERAGE MOLECULAR WEIGHT >700 - <1100)	25036-25-3	SKIN CORROSION/IRRITATION - Category 2
			SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 SKIN SENSITIZATION - Category 1
Xylene	XYLENES	1330-20-7	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (dermal) - Category 4

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Product name SIGMAPRIME 700 BASE YELLOW GREEN

Product code 00438617

Section 11. Toxicological information

dection in toxic	ological illiolillati	OII	
			ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION/IRRITATION - Category
			SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
iron hydroxide oxide	IRON HYDROXIDE OXIDE	20344-49-4	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 Not classified.
Aluminium powder (stabilized)	ALUMINUM POWDER	7429-90-5	FLAMMABLE SOLIDS - Category 1
			SUBSTANCES AND MIXTURES, WHICH IN CONTACT WITH WATER, EMIT FLAMMABLE GASES - Category 2
Phenol, methylstyrenated	Phenol, methylstyrenated	68512-30-1	SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITIZATION - Category 1
			AQUATIC HAZARD (LONG-TERM) - Category 3
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	oxirane, mono[(C12-14-alkyloxy)methyl] derivs	68609-97-2	SKIN CORROSION/IRRITATION - Category 2
1,2,4,5-tetramethylbenzene	1,2,4,5-tetramethylbenzene	95-93-2	SKIN SENSITIZATION - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
1-methoxy-2-propanol	PROPYLENE GLYCOL MONOMETHYL ETHER	107-98-2	AQUATIC HAZARD (LONG-TERM) - Category 4 FLAMMABLE LIQUIDS - Category 3
	INONOMETHTE ETHER		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
ethylbenzene	ETHYLBENZENE	100-41-4	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 2 ASPIRATION HAZARD - Category 1
2-methylpropan-1-ol	ISOBUTYL ALCOHOL	78-83-1	FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 2
			SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
			SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
Cashew, nutshell liq.	CASHEW NUTSHELL LIQUID	8007-24-7	ASPIRATION HAZARD - Category 2 ACUTE TOXICITY (oral) - Category 4

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Section 11. Toxicological information

Urea, polymer with formaldehyde, isobutylated 4-methylpentan-2-one	urea, polymer with formaldehyde, isobutylated 4-METHYLPENTAN-2-ONE / METHYL ISOBUTYL KETONE	68002-18-6 108-10-1	ACUTE TOXICITY (dermal) - Category 4 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SKIN SENSITIZATION - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 4 FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
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Section 12. Ecological information

A. **Ecotoxicity**

Product/ingredient name	Result	Species	Exposure
iron hydroxide oxide	Acute LC50 >100 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 LC50 150 to 200 mg/l Fresh water	Fish	96 hours
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours

B. Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Xylene	-	-	Readily
ethylbenzene	-	-	Readily

C. Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Xylene	3.16	7.4 to 18.5	low
1,2,4,5-tetramethylbenzene	4	-	high
ethylbenzene	3.15	79.43	low
2-methylpropan-1-ol	0.76	-	low
4-methylpentan-2-one	1.31	-	low

D. Mobility in soil

Soil/water partition coefficient (K_{oc})

: Not available.

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Product name SIGMAPRIME 700 BASE YELLOW GREEN

Section 12. Ecological information

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.

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	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.

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Product name SIGMAPRIME 700 BASE YELLOW GREEN

Section 15. Regulatory information

A. Regulation according to ISHA

ISHA article 37 (Harmful substances prohibited from manufacture)

: None of the components are listed.

ISHA article 38 (Harmful substances requiring

itul :

: None of the components are listed.

permission)

Article 2 of Youth Protection Act on Substances Hazardous to Youth : It is not allowed to sell to persons under the age of 19.

The following components have an OEL:

Valc . not containing asbestiform fibres

crystalline silica, respirable powder (<10 microns)

Exposure Limits of Chemical Substances and Physical Factors

Xylene

Aluminium powder (stabilized)

1-methoxy-2-propanol

ethylbenzene

2-methylpropan-1-ol

4-methylpentan-2-one

ISHA Enforcement Regs Annex 11-3 (Exposure standards established for harmful factors) : None of the components are listed.

ISHA Enforcement Regs Annex 11-5 (Harmful factors subject to Work Environment Measurement)

The following components are listed: Xylene, o,m,p-isomers Preparations containing material at weight ratio of 1% or more, Ethylbenzene Preparations containing material at weight ratio of 1% or more, Talc, non-asbestos form/Soap stone less than 1% crystalline silica; (Mineral dust), Quartz (Mineral dust), Aluminum, metal (Dust), as AL; Preparations containing material at weight ratio more than 1%, Iron oxide (Dust and fume), as Fe; Preparations containing material at weight ratio more than 1%, Isobutyl alcohol Preparations containing material at weight ratio of 1% or more

ISHA Enforcement Regs Annex 12-2 (Harmful Factors Subject to Special Health Check-up) The following components are listed: Xylene, Ethylbenzene, Aluminum and compounds as Al, Iron oxide as Fe; (dust and fume), Isobutyl alcohol

Standard of Industrial Safety and Health Annex 12 (Hazardous substances subject to control) The following components are listed: xylene, ethyl benzene, aluminum and its compounds, iron and its compounds, isobutyl alcohol

B. Regulation according to Chemicals Control Act

CCA Article 20 Toxic

Chemicals (K-Reach

Article 20)

: Not applicable

CCA Article 18 Prohibited (K-Reach

Prohibited (K-Reac Article 27)

: None of the components are listed.

CCA Article 20

: None of the components are listed.

Restricted (K-Reach Article 27)

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Product name SIGMAPRIME 700 BASE YELLOW GREEN

Section 15. Regulatory information

CCA Article 11 (TRI) : The following components are listed: Xylene including o-,m-,p- isomer, Ethylbenzene,

Aluminium and its compounds

Korea inventory : All components are listed or exempted.

CCA Article 39 (Accident : None of the components are listed.

Precaution Chemicals)

C. <u>Dangerous Materials</u> Safety Management Act

: Class: Class 4 - Flammable Liquid

Item: 4. Class 2 petroleums - Water-insoluble liquid

Threshold: 1000 L Danger category: III

Signal word: Contact with sources of ignition prohibited

D. <u>Wastes regulation</u>: Dispose of contents and container in accordance with all local, regional, national and

international regulations.

E. Regulation according to other foreign laws

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. Date of issue/Date of

revision

4/22/2020

C. Version : 2
Prepared by : EHS

D. Other

Procedure used to derive the classification

Classification	Justification
Not supported	On basis of test data
Not supported	Calculation method

▼ 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.

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