SAFETY DATA SHEET



Date of issue 17 February 2024

Version 11

Section 1. Identification			
Chemical name	: SIGMAPRIME 200 BASE YELLOWGREEN		
GHS product identifier	: SIGMAPRIME 200 BASE YELLOWGREEN		
Code	: 00202390		
Relevant identified uses of the substance or mixture and uses advised against			
Product use	Coating. Professional applications, Used by spraying.		
Supplier's details	: PPG Industries International Inc. Taiwan Branch. No.209, Hong Tzuenn Rd Ping Chen City, Taoyuan County, Taiwan Tel: 886 3 3663922 886 3 3751639 (Automotive OEM Coatings Products). Fax: 886 3 2182667		
Emergency telephone number	: North: +886-3-3663922 North : +886-911998320 South: +886-7-8718105 South : +886-932793707		

Section 2. Hazards identification

Classification of the	: FLAMMABLE LIQUIDS - Category 3
substance or mixture	ACUTE TOXICITY (dermal) - Category 5
	ACUTE TOXICITY (inhalation) - Category 4
	SKIN CORROSION/IRRITATIÓN - Category 2
	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
	SKIN SENSITIZATION - Category 1
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 AQUATIC TOXICITY (ACUTE) - Category 2
	AQUATIC TOXICITY (CHRONIC) - Category 2
	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 52.1%
	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 38.1%
	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 60.6%
GHS label elements	

Product name SIGMAPRIME 200 BASE YELLOWGREEN

Section 2. Hazards identification

Hazard pictograms	
Signal word	: Danger
Hazard statements	 Flammable liquid and vapor. May be harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Harmful if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.
Precautionary statements	
Prevention	: Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Do not breathe vapor. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.
Response	: Collect spillage. Get medical advice or attention if you feel unwell. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF ON SKIN: Call a POISON CENTER or doctor if you feel unwell. Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. 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.
Storage	: Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Other hazards which do not result in classification	: Causes digestive tract burns. 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

Substance/mixture

: Mixture

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Section 3. Composition/information on ingredients

Hazardous ingredients	Concentration %	CAS number
Palc, not containing asbestiform fibres	20 - <25	14807-96-6
Epoxy Resin (700 <mw<=1100)< td=""><td>10 - <20</td><td>25036-25-3</td></mw<=1100)<>	10 - <20	25036-25-3
xylene	10 - <20	1330-20-7
Solvent naphtha (petroleum), heavy arom.	3 - <5	64742-94-5
2-methylpropan-1-ol	3 - <5	78-83-1
ethylbenzene	1 - <3	100-41-4
Hydrocarbons, C10-C13, n-alkanes, isoalkanes,	1 - <3	64742-48-9
cyclics, < 2% aromatics		
1-methoxy-2-propanol	1 - <3	107-98-2
crystalline silica, respirable powder (<10 microns)	1 - <3	14808-60-7
4-nonylphenol, branched	1 - <3	84852-15-3
Urea, polymer with formaldehyde, butylated	1 - <3	68002-19-7
naphthalene	0.3 - <1	91-20-3
toluene	0.1 - <0.3	108-88-3
危害成分	濃度 %	化學文摘社登記號碼(CAS No.)
危害成分 肾 石(不含石綿纖維)	濃度 % 20 - <25	化學文摘社登記號碼(CAS No.) 14807-96-6
肾 石(不含石綿纖維)	20 - <25	14807-96-6
肾 石(不含石綿纖維) 環氧樹脂 (700 <mw<=1100)< td=""><td>20 - <25 10 - <20</td><td>14807-96-6 25036-25-3</td></mw<=1100)<>	20 - <25 10 - <20	14807-96-6 25036-25-3
丙(不含石綿纖維) 環氧樹脂(700 <mw<=1100) 二甲苯</mw<=1100) 	20 - <25 10 - <20 10 - <20	14807-96-6 25036-25-3 1330-20-7
丙(不含石綿纖維) 環氧樹脂(700 <mw<=1100) 二甲苯 重質芳香烴石腦油</mw<=1100) 	20 - <25 10 - <20 10 - <20 3 - <5	14807-96-6 25036-25-3 1330-20-7 64742-94-5
肾 石(不含石綿纖維) 環氧樹脂(700 <mw<=1100) 二甲苯 重質芳香烴石腦油 異丁醇</mw<=1100) 	20 - <25 10 - <20 10 - <20	14807-96-6 25036-25-3 1330-20-7
肾 石(不含石綿纖維) 環氧樹脂(700 <mw<=1100) 二甲苯 重質芳香烴石腦油 異丁醇 苯乙烷</mw<=1100) 	20 - <25 10 - <20 10 - <20 3 - <5 3 - <5 1 - <3	14807-96-6 25036-25-3 1330-20-7 64742-94-5 78-83-1
丙(不含石綿纖維) 環氧樹脂(700 <mw<=1100) 二甲苯 重質芳香烴石腦油 異丁醇 苯乙烷 碳氫化合物,C10-C13,正構烷烴,異烷烴,環狀,芳</mw<=1100) 	20 - <25 10 - <20 10 - <20 3 - <5 3 - <5 1 - <3	14807-96-6 25036-25-3 1330-20-7 64742-94-5 78-83-1 100-41-4
丙(不含石綿纖維) 環氧樹脂(700 <mw<=1100) 二甲苯 重質芳香烴石腦油 異丁醇 苯乙烷 碳氫化合物,C10-C13,正構烷烴,異烷烴,環狀,芳 烴<2%</mw<=1100) 	20 - <25 10 - <20 10 - <20 3 - <5 3 - <5 1 - <3 1 - <3	14807-96-6 25036-25-3 1330-20-7 64742-94-5 78-83-1 100-41-4 64742-48-9
丙(不含石綿纖維) 環氧樹脂(700 <mw<=1100) 二甲苯 重質芳香烴石腦油 異丁醇 苯乙烷 碳氫化合物,C10-C13,正構烷烴,異烷烴,環狀,芳 烴<2% 丙二醇甲醚</mw<=1100) 	20 - <25 10 - <20 10 - <20 3 - <5 3 - <5 1 - <3 1 - <3 1 - <3	14807-96-6 25036-25-3 1330-20-7 64742-94-5 78-83-1 100-41-4 64742-48-9 107-98-2
丙(不含石綿纖維) 環氧樹脂(700 <mw<=1100) 二甲苯 重質芳香烴石腦油 異丁醇 苯乙烷 碳氫化合物,C10-C13,正構烷烴,異烷烴,環狀,芳 烴<2% 丙二醇甲醚 晶砂石,可吸入粉末(<10微米)</mw<=1100) 	20 - <25 $10 - <20$ $10 - <20$ $3 - <5$ $3 - <5$ $1 - <3$ $1 - <3$ $1 - <3$	14807-96-6 25036-25-3 1330-20-7 64742-94-5 78-83-1 100-41-4 64742-48-9 107-98-2 14808-60-7
丙(不含石綿纖維) 環氧樹脂(700 <mw<=1100) 二甲苯 重質芳香烴石腦油 異丁醇 苯乙烷 碳氫化合物,C10-C13,正構烷烴,異烷烴,環狀,芳 烴<2% 丙二醇甲醚 晶砂石,可吸入粉末(<10微米) 支鏈4-壬基苯酚</mw<=1100) 	20 - <25 $10 - <20$ $10 - <20$ $3 - <5$ $3 - <5$ $1 - <3$ $1 - <3$ $1 - <3$ $1 - <3$ $1 - <3$	14807-96-6 25036-25-3 1330-20-7 64742-94-5 78-83-1 100-41-4 64742-48-9 107-98-2 14808-60-7 84852-15-3
第石(不含石綿纖維) 環氧樹脂(700 <mw<=1100) 二甲苯 重質芳香烴石腦油 異丁醇 苯乙烷 碳氫化合物,C10-C13,正構烷烴,異烷烴,環狀,芳 烴<2% 丙二醇甲醚 晶砂石,可吸入粉末(<10微米) 支鏈4-壬基苯酚 Urea, polymer with formaldehyde, butylated</mw<=1100) 	20 - <25 $10 - <20$ $10 - <20$ $3 - <5$ $3 - <5$ $1 - <3$ $1 - <3$ $1 - <3$ $1 - <3$ $1 - <3$ $1 - <3$	14807-96-6 25036-25-3 1330-20-7 64742-94-5 78-83-1 100-41-4 64742-48-9 107-98-2 14808-60-7 84852-15-3 68002-19-7
爾石(不含石綿纖維) 環氧樹脂(700 <mw<=1100) 二甲苯 重質芳香烴石腦油 異丁醇 苯乙烷 碳氫化合物,C10-C13,正構烷烴,異烷烴,環狀,芳 烴<2% 丙二醇甲醚 晶砂石,可吸入粉末(<10微米) 支鏈4-壬基苯酚</mw<=1100) 	20 - <25 $10 - <20$ $10 - <20$ $3 - <5$ $3 - <5$ $1 - <3$ $1 - <3$ $1 - <3$ $1 - <3$ $1 - <3$	14807-96-6 25036-25-3 1330-20-7 64742-94-5 78-83-1 100-41-4 64742-48-9 107-98-2 14808-60-7 84852-15-3

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

Description of neces	sary first aid measures
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.
Ingestion	 If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.
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.
Eye contact	: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
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Section 4. First aid measures

Most important symptoms/e	ffects, acute and delayed
Potential acute health effect	<u>ets</u>
Eye contact	: Causes serious eye damage.
Inhalation	: Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
Skin contact	: May be harmful in contact with skin. Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: Corrosive to the digestive tract. Causes burns. Can cause central nervous system (CNS) depression.
Over-exposure signs/symp	<u>otoms</u>
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains
Indication of immediate me	dical attention and special treatment needed, if necessary
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

Extinguishing media	
Suitable	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Not suitable	: Do not use water jet.
Specific hazards arising from the chemical	: Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon oxides nitrogen oxides metal oxide/oxides Formaldehyde.
Special protective actions for fire-fighters	: 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.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

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.
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). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
Methods and materials for co	ontainment and cleaning up
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.
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

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. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
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

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
<mark>I</mark> alc (Mg3H2(SiO3)4)	TW Minstry of Labor, labor permissible workplace exposure standards, allowable concentration (Taiwan, 3/2018). STEL: 4 mg/m ³ 15 minutes. TWA: 2 mg/m ³ 8 hours.
xylene	TW Minstry of Labor, labor permissible workplace exposure standards, allowable concentration (Taiwan, 3/2018). [xylenes (o-, m-, p-isomer)] STEL: 542.5 mg/m ³ 15 minutes. STEL: 125 ppm 15 minutes. TWA: 434 mg/m ³ 8 hours.
2-methylpropan-1-ol	TWA: 100 ppm 8 hours. TW Minstry of Labor, labor permissible workplace exposure standards, allowable concentration (Taiwan, 3/2018). STEL: 228 mg/m ³ 15 minutes. STEL: 75 ppm 15 minutes. TWA: 152 mg/m ³ 8 hours.
ethylbenzene	TWA: 50 ppm 8 hours. TW Minstry of Labor, labor permissible workplace exposure standards, allowable concentration (Taiwan, 3/2018).
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Section 8. Exposure controls/personal protection

1-methoxy-2-propanol		STEL: 542.5 mg/m ³ 15 minutes. STEL: 125 ppm 15 minutes. TWA: 434 mg/m ³ 8 hours. TWA: 100 ppm 8 hours. TW Minstry of Labor, labor permissible workplace exposure standards, allowable concentration (Taiwan, 3/2018). STEL: 461.25 mg/m ³ 15 minutes.
crystalline silica, respirable powder (<10 microns)		STEL: 125 ppm 15 minutes. TWA: 369 mg/m ³ 8 hours. TWA: 100 ppm 8 hours. TW Minstry of Labor, labor permissible workplace exposure standards, allowable concentration (Taiwan, 3/2018). [Type 1 dust: Mineral dust with over 10%
nanhthalana		crystalline free SiO2 content respirable dust] TWA: 10 mg/m ³ / (%SiO2+2) 8 hours. Form: Respirable dust STEL: 15 mg/m ³ / (%SiO2+2) 15 minutes. Form: Respirable dust TW Minstry of Labor, labor permissible
naphthalene		workplace exposure standards, allowable concentration (Taiwan, 3/2018). STEL: 78 mg/m ³ 15 minutes. STEL: 15 ppm 15 minutes. TWA: 52 mg/m ³ 8 hours. TWA: 10 ppm 8 hours.
toluene		TW Minstry of Labor, labor permissible workplace exposure standards, allowable concentration (Taiwan, 3/2018). Absorbed through skin. STEL: 470 mg/m ³ 15 minutes. STEL: 470 mg/m ³ 15 minutes. STEL: 125 ppm 15 minutes. TWA: 376 mg/m ³ 8 hours. TWA: 100 ppm 8 hours.
Appropriate engineering : controls	ventilation or other engineering contro contaminants below any recommend	Jse process enclosures, local exhaust ols to keep worker exposure to airborne ed or statutory limits. The engineering controls concentrations below any lower explosive n equipment.
Individual protection measures Respiratory protection :	Respirator selection must be based of hazards of the product and the safe w workers are exposed to concentration appropriate, certified respirators. Use	on known or anticipated exposure levels, the vorking limits of the selected respirator. If ns above the exposure limit, they must use e a properly fitted, air-purifying or air-fed d standard if a risk assessment indicates this is

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Section 8. Exposure controls/personal protection

Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Gloves	: butyl rubber
Skin protection	 Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Eye protection	: Chemical splash goggles and face shield.
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

Physical state : Liquid. Color : Various Odor : Aromatic. Odor threshold : Not available. pH : Not applicable. Melting point : Not available. Boiling point : >37.78°C (>100°F) Flash point : Closed cup: 28°C (82.4°F) Flash point : Ote available. Burning time : Not available. Burning rate : Not available. Evaporation rate : Not available. Evaporation rate : Not available. Lower and upper explosive (flammable) limits : Not available. Vapor pressure : Not available. Relative density : 1.41 Solubility(ies) : 1.41 Partition coefficient: n : Not applicable.					Taiwan GHS	Page: 8/16
Color: VariousOdor: Aromatic.Odor threshold: Not available.pH: Not available.Boiling point: Not available.Boiling point: >37.78°C (>100°F)Flash point: Closed cup: 28°C (82.4°F)Flammability (solid, gas): Not available.Burning time: Not available.Burning rate: Not available.Evaporation rate: Not available.Lower and upper explosive (flammable) limits: Not available.Vapor pressure: Not available.Vapor density: Not available.Relative density: 1.41Solubility(ies): Media		:	Not applicable.			
Color: VariousOdor: Aromatic.Odor threshold: Not available.pH: Not applicable.Melting point: Not available.Boiling point: >37.78°C (>100°F)Flash point: Closed cup: 28°C (82.4°F)Flammability (solid, gas): Not available.Burning time: Not applicable.Burning rate: Not applicable.Decomposition temperature: Not available.Evaporation rate: Not available.Lower and upper explosive: Not available.(flammable) limits: Not available.Vapor density: Not available.Relative density: 1.41	oorability(103)	1		Not soluble		
Color: VariousOdor: Aromatic.Odor threshold: Not available.pH: Not applicable.Melting point: Not available.Boiling point: >37.78°C (>100°F)Flash point: Closed cup: 28°C (82.4°F)Flammability (solid, gas): Not available.Burning time: Not applicable.Burning rate: Not applicable.Evaporation rate: Not available.Evaporation rate: Not available.Vapor pressure: Not available.Vapor density: Not available.	Solubility/ies)		Media	Result		
Color: VariousOdor: Aromatic.Odor threshold: Not available.pH: Not applicable.Melting point: Not available.Boiling point: >37.78°C (>100°F)Flash point: Closed cup: 28°C (82.4°F)Flammability (solid, gas): Not available.Burning time: Not applicable.Burning rate: Not applicable.Decomposition temperature: Not available.Evaporation rate: Not available.Lower and upper explosive (flammable) limits: Not available.Vapor pressure: Not available.	Relative density	:	1.41			
Color: VariousOdor: Aromatic.Odor threshold: Not available.pH: Not applicable.Melting point: Not available.Boiling point: >37.78°C (>100°F)Flash point: Closed cup: 28°C (82.4°F)Flammability (solid, gas): Not available.Burning time: Not applicable.Burning rate: Not applicable.Decomposition temperature: Not available.Evaporation rate: Not available.Lower and upper explosive (flammable) limits: Not available.	Vapor density	1	Not available.			
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Color: VariousOdor: Aromatic.Odor threshold: Not available.pH: Not applicable.Melting point: Not available.Boiling point: >37.78°C (>100°F)Flash point: Closed cup: 28°C (82.4°F)Flammability (solid, gas): Not available.Burning time: Not applicable.	Decomposition temperature	:	Not available.			
Color: VariousOdor: Aromatic.Odor threshold: Not available.pH: Not applicable.Melting point: Not available.Boiling point: >37.78°C (>100°F)Flash point: Closed cup: 28°C (82.4°F)Flammability (solid, gas): Not available.	Burning rate	:	Not applicable.			
Color: VariousOdor: Aromatic.Odor threshold: Not available.pH: Not applicable.Melting point: Not available.Boiling point: >37.78°C (>100°F)Flash point: Closed cup: 28°C (82.4°F)	Burning time	:	Not applicable.			
Color: VariousOdor: Aromatic.Odor threshold: Not available.pH: Not applicable.Melting point: Not available.Boiling point: >37.78°C (>100°F)	Flammability (solid, gas)	:	Not available.			
Color: VariousOdor: Aromatic.Odor threshold: Not available.pH: Not applicable.Melting point: Not available.	Flash point	:	Closed cup: 28°C (82.4°F)		
Color: VariousOdor: Aromatic.Odor threshold: Not available.pH: Not applicable.		:	>37.78°C (>100°F)			
Color: VariousOdor: Aromatic.Odor threshold: Not available.	Melting point	:	••			
Color : Various Odor : Aromatic.	рН	:	Not applicable.			
Color : Various						
Physical state : Liquid.			•			
Appearance			Liquid.			

Product name SIGMAPRIME 200 BASE YELLOWGREEN

Section 9. Physical and chemical properties

Auto-ignition temperature	: 200°C (392°F)
Viscosity	: Kinematic (room temperature): >400 mm ² /s Kinematic (40°C): >21 mm ² /s
Viscosity	: > 100 s (ISO 6mm)

Section 10. Stability and reactivity

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

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
₽́poxy Resin (700 <mw <=1100)</mw 	LD50 Dermal	Rat	>2000 mg/kg	-
,	LD50 Oral	Rat	>2000 mg/kg	
		Rabbit		-
5	LD50 Dermal		1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
Solvent naphtha (petroleum), heavy arom.	LC50 Inhalation Dusts and mists	Rat	>5.2 mg/l	4 hours
-	LD50 Oral	Rat	>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	-
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	-
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>6 g/kg	-
	LC50 Inhalation Vapor	Rat	>7000 ppm	6 hours
	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	5.2 g/kg	-
	LD50 Dermal	Rabbit	2.14 g/kg	-
3 1	LD50 Oral	Rat	1300 mg/kg	-
	LD50 Dermal	Rabbit	>20 g/kg	-

Product name SIGMAPRIME 200 BASE YELLOWGREEN

Section 11. Toxicological information

	•				
	LD50 Oral	Rat	490 mg/kg	-	
toluene	LC50 Inhalation Vapor	Rat	49 g/m ³	4 hours	
	LD50 Dermal	Rabbit	8.39 g/kg	-	
	LD50 Oral	Rat	5580 mg/kg	-	

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
x ylene	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
4-nonylphenol, branched	Skin - Erythema/Eschar	Rabbit	4	mg -	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Talc (Mg3H2(SiO3)4)	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
xylene	Category 3	-	Respiratory tract irritation
Solvent naphtha (petroleum), heavy arom.	Category 3	-	Narcotic effects
2-methylpropan-1-ol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
1-methoxy-2-propanol	Category 3	-	Narcotic effects
toluene	Category 3	-	Narcotic effects

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
ethylbenzene	Category 2	-	hearing organs
crystalline silica, respirable powder (<10 microns)	Category 1	inhalation	-
naphthalene	Category 2	-	-
toluene	Category 2	-	-

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Section 11. Toxicological information

Aspiration hazard

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

Information on the likely : Not available. routes of exposure

Potential acute health effects

Inhalation	 Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
Ingestion	: Corrosive to the digestive tract. Causes burns. Can cause central nervous system (CNS) depression.
Skin contact	 May be harmful in contact with skin. Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Eye contact	: Causes serious eye damage.

Symptoms related to the physical, chemical and toxicological characteristics

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

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Section 11. Toxicological information

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Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	fects
Not available.	
General	: May cause damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.
Skin contact	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
SIGMAPRIME 200 BASE YELLOWGREEN	6289.2	2791.8	N/A	18.8	5.8
Talc (Mg3H2(SiO3)4)	N/A	N/A	N/A	11	N/A
Epoxy Resin (700 <mw<=1100)< td=""><td>2500</td><td>2500</td><td>N/A</td><td>N/A</td><td>N/A</td></mw<=1100)<>	2500	2500	N/A	N/A	N/A
xylene	4300	1700	N/A	11	1.5
2-methylpropan-1-ol	2830	2460	N/A	24.6	N/A
ethylbenzene	3500	17800	N/A	17.8	1.5
1-methoxy-2-propanol	5200	13000	N/A	N/A	N/A
4-nonylphenol, branched	1300	2140	N/A	N/A	N/A
naphthalene	490	N/A	N/A	N/A	N/A
toluene	5580	8390	N/A	49	N/A

Other information

Causes digestive tract burns. 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.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Solvent naphtha (petroleum), heavy arom.	NOEL 0.48 mg/l Fresh water	Daphnia	21 days
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
-	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
1-methoxy-2-propanol	Acute LC50 23300 mg/l	Daphnia	48 hours
	Acute LC50 >4500 mg/l Fresh water	Fish	96 hours
4-nonylphenol, branched	Acute EC50 0.044 mg/l	Crustaceans - Moina macrocopa	48 hours
• •	Acute LC50 0.221 mg/l	Fish	96 hours

Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
ethylbenzene	-	79 % - Readily - 10 days		-		-
Product/ingredient name	Aquatic half-life)	Photolysis		Biode	gradability
₩ylene ethylbenzene toluene	- - -		- - -		Readil Readil Readil	ý

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
x ylene	3.12	7.4 to 18.5	Low
Solvent naphtha (petroleum),	2.8 to 6.5	-	High
heavy arom.			
2-methylpropan-1-ol	1	-	Low
ethylbenzene	3.6	79.43	Low
1-methoxy-2-propanol	<1	-	Low
4-nonylphenol, branched	5.4	251.19	Low
naphthalene	3.4	85.11	Low
toluene	2.73	8.32	Low

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

Product name SIGMAPRIME 200 BASE YELLOWGREEN

Section 13. Disposal considerations

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. 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
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class(es)	3	3	3
Packing group	III		III
Environmental hazards	Yes. The environmentally hazardous substance mark is not required.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	Solvent naphtha (petroleum), heavy aromatic)	Not applicable.

Additional information

UN	: This class 3 viscous liquid that is also environmentally hazardous is not subject to regulation in
	packagings up to 5 L, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2
	and 4.1.1.4 to 4.1.1.8 according to 2.3.2.5.2.

- IMDG : This class 3 viscous liquid that is also environmentally hazardous is not subject to regulation in packagings up to 5 L, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8 according to 2.3.2.5.
- **IATA** : The environmentally hazardous substance mark may appear if required by other transportation regulations.

Special precautions for user : 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.

Product name SIGMAPRIME 200 BASE YELLOWGREEN

Section 14. Transport information

Transport in bulk according : Not applicable. to IMO instruments

Section 15. Regulatory information

TCCSCA List of toxic chemicals

Not applicable.

TCCSCA List of concerned chemicals

Not applicable.

List of chemicals for which manufacturing or handling : This product contains substances "Specially hazardous to health": xylene, 2-methylpropan-1-ol, butan-1-ol, o-xylene, toluene, methanol.

manufacturing or handling is defined as "work specially hazardous to health"

Regulations Applicable:

- 1. Rules for Occupational Safety and Health Facilities
- 2. Regulations for the Labeling and Hazard Communication of Hazardous Chemicals
- 3. Prevention Rules for Organic Solvent Intoxication/Poisoning.
- 4. Standards of Permissible Exposure Limits of Airborne Hazardous Substances in Workplace
- 5. Traffic Safety Regulation of Road.

Section 16. Other information

References	Not available.		
Organization that	Name: PPG Industries International Inc., Taiwan Branch		
prepared the SDS	Address / Telephone : No.209, Hong Tzuenn Rd Ping Chen City, Taoyuan County, Taiwan North: +886-3-3663922 North : +886-911998320 South: +886-7-8718105 South : +886-932793707		
Person who prepared the SDS	Title:Name: (Signature):Technical managerTony ChengTechnical managerDaniel Wu		
Date of issue	17 February 2024		
Date of previous issue	: 4/12/2023		
Version	: 11		
Indicates information	n that has changed from previously issued v	ersion.	

Remarks

: New SDS layout incorporating TW Table 2017

Product name SIGMAPRIME 200 BASE YELLOWGREEN

Section 16. Other information

Key to abbreviations	: ADN = European Provisions concerning the International Carriage of Dangerous
•	Goods by Inland Waterway
	ADR = The European Agreement concerning the International Carriage of
	Dangerous Goods by Road
	ATE = Acute Toxicity Estimate
	BCF = Bioconcentration Factor
	GHS = Globally Harmonized System of Classification and Labelling of Chemicals
	IATA = International Air Transport Association
	IMDG = International Maritime Dangerous Goods
	LogPow = logarithm of the octanol/water partition coefficient
	MARPOL = International Convention for the Prevention of Pollution From Ships,
	1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
	RID = The Regulations concerning the International Carriage of Dangerous Goods
	by Rail
	UN = United Nations

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.