# SAFETY DATA SHEET



#### Date of issue 10/14/2024 (month/day/year)

Version 4.08

### Section 1. Chemical product and company identification

A. Product name	: SIGMAPRIME 700 HARDENER
Product code	: 00394832

### 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	:	PPG SSC (680-090) 19, Yeocheon-ro 217beon-gil, Nam-gu, Ulsan, Korea Tel: +82-52-210-8222
	Email Address		Korea.MSDS@PPG.COM
	Emergency telephone number:	:	+82-52-210-8331

## Section 2. Hazards identification

Α.	Hazard classification	: FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - 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



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## Section 2. Hazards identification

	Hazard statements	<ul> <li>26 - Flammable liquid and vapor.</li> <li>2 + H332 - Harmful in contact with skin or if inhaled.</li> <li>5 - Causes skin irritation.</li> <li>7 - May cause an allergic skin reaction.</li> <li>8 - Causes serious eye damage.</li> <li>36 - May cause drowsiness or dizziness.</li> <li>31 - Suspected of causing cancer.</li> <li>32 - Causes damage to organs through prolonged or repeated exposizions system (CNS), kidneys, liver)</li> </ul>	sure. (central
	Precautionary statements		
	Prevention	<ul> <li>2 - Do not handle until all safety precautions have been read and until 0 - Wear protective gloves, protective clothing and eye or face protective of a cep away from heat, hot surfaces, sparks, open flames and other ces. No smoking.</li> <li>1 - Use explosion-proof electrical, ventilating or lighting equipment.</li> <li>1 - Use explosion-proof electrical, ventilating or lighting equipment.</li> <li>2 - Use non-sparking tools.</li> <li>3 - Take action to prevent static discharges.</li> <li>0 - Ground and bond container and receiving equipment.</li> <li>0 - Do not breathe vapor.</li> <li>0 - Do not eat, drink or smoke when using this product.</li> <li>4 - Wash thoroughly after handling.</li> </ul>	ection.
	Response	<ul> <li>10 + P378 - In case of fire: Never use water to extinguish.</li> <li>18 + P313 - IF exposed or concerned: Get medical advice or attention</li> <li>14 + P312 - IF INHALED: Call a POISON CENTER or doctor if you fer the start of the</li></ul>	eel unwell. ntaminated el unwell. ention. or several
	Storage	3 + P233 - Store in a well-ventilated place. Keep container tightly clo 3 + P235 - Keep cool.	osed.
	Disposal	1 - Dispose of contents and container in accordance with all local, re onal and international regulations.	egional,
с.	Other hazards which do not result in	longed or repeated contact may dry skin and cause irritation.	

classification

С

## Section 3. Composition/information on ingredients

#### **CAS number/other identifiers**

CAS number

: Not applicable.

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### Section 3. Composition/information on ingredients

Chemical name	Common name	Identifiers	%
Vylene	XYLENES	CAS: 1330-20-7	20 - <30
		EC: 215-535-7	
Cashew, nutshell liq.	CASHEW NUTSHELL LIQUID	CAS: 8007-24-7	5 - <10
		EC: 232-355-4	
Phenol, methylstyrenated	Phenol, methylstyrenated	CAS: 68512-30-1	5 - <10
		EC: 270-966-8	
2,4,6-tris(dimethylaminomethyl)phenol	2,4,6-tris(dimethylaminomethyl)phenol	CAS: 90-72-2	1 - <5
		EC: 202-013-9	
ethylbenzene	ETHYLBENZENE	CAS: 100-41-4	1 - <5
		EC: 202-849-4	
2-methylpropan-1-ol	ISOBUTYL ALCOHOL	CAS: 78-83-1	1 - <5
		EC: 201-148-0	
1-methoxy-2-propanol	PROPYLENE GLYCOL MONOMETHYL ETHER	CAS: 107-98-2	1 - <5
		EC: 203-539-1	

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

Α.	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.
В.	Skin contact	:	Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
C.	Inhalation	:	Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
D.	Ingestion	:	If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.
Ε.	Notes to physician	:	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	Specific treatments	1	No specific treatment.
	Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

#### See toxicological information (Section 11)

## Section 5. Fire-fighting measures

Α.	Extinguishing media		
	Suitable extinguishing media	:	Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
	Unsuitable extinguishing media	:	Do not use water jet.
В.	Specific hazards arising from the chemical	:	Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.
	Hazardous thermal decomposition products	:	Decomposition products may include the following materials: carbon oxides nitrogen oxides
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

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

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

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
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.
2-methylpropan-1-ol	ISHA Article 42 (Republic of Korea, 1/2020)
1-methoxy-2-propanol	TWA 8 hours: 50 ppm. ISHA Article 42 (Republic of Korea,
	<b>1/2020)</b> STEL 15 minutes: 150 ppm. TWA 8 hours: 100 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.

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## Section 8. Exposure controls/personal protection

	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.
с.	Personal protective equip	me	ent
	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	1	Chemical splash goggles and face shield.
	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	1	butyl rubber
	Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
	Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

## Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Α.	Appearance		
	Physical state	:	Liquid.
	Color	1	Not available.
В.	Odor	:	Characteristic.
С.	Odor threshold	1	Not available.
D.	рН	1	Not applicable.
Ε.	Melting/freezing point	1	Not available.
F.	Boiling point/boiling range	:	>37.78°C (>100°F)
G.	Flash point	:	Closed cup: 26°C (78.8°F)
н.	Evaporation rate	:	Not available.
I.	Flammability (solid, gas)	:	Not available.

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## Section 9. Physical and chemical properties

J. Lower and upper explosive (flammable) limits : Not available.

limits									
K. Vapor pressure	1		Vapo	Vapor Pressure at 20°C			Vapor pressure 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				
Solubility(ies)		Media	Re	sult					
		cold water Not soluble							
Solubility in water	:	Not available.							
Vapor density	1	Not available.							
Relative density	1	0.97							
Partition coefficient: n- octanol/water	:	Not applicable.	Not applicable.						
Auto-ignition temperature	:								
		Ingredient name		°C	°F		Method		
		1-methoxy-2-propanol		270	518				
Decomposition temperature	:	Not available.		1					
Viscosity R.	:	Øynamic (room tem Kinematic (room ten Kinematic (40°C (10	nperature)	: Not av	ailable.				
Flow time (ISO 2431)	1	Not available.							
	:								

## Section 10. Stability and reactivity

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

## Section 11. Toxicological information

**Product name SIGMAPRIME 700 HARDENER** 

Α.	Information on the like routes of exposure	y : Not available.
<u>P</u>	otential acute health eff	ects
	Inhalation	: Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
	Ingestion	: Can cause central nervous system (CNS) depression.
	Skin contact	: Harmful in contact with skin. Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
	Eye contact	: Causes serious eye damage.
<u>0</u>	ver-exposure signs/sym	ptoms
	Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
	Ingestion	: Adverse symptoms may include the following: stomach pains
	Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur
	Eye contact	: Adverse symptoms may include the following: pain watering redness

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

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
Phenol, methylstyrenated	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
2,4,6-tris(dimethylaminomethyl)phenol	LD50 Dermal	Rat	1280 mg/kg	-
	LD50 Oral	Rat	1200 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	-
2-methylpropan-1-ol	LC50 Inhalation Vapor	Rat	24.6 mg/l	4 hours
	LD50 Dermal	Rabbit	2460 mg/kg	-
	LD50 Oral	Rat	2830 mg/kg	-
1-methoxy-2-propanol	LC50 Inhalation Vapor	Rat	>7000 ppm	6 hours
	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	5.2 g/kg	-

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

### Irritation/Corrosion

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## Section 11. Toxicological information

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Product/ingredient name		Result	Species	Score	Exposure	Observation
Xylene		Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Conclusion/Summary						
Skin	: T	here are no data available o	n the mixture i	tself.		
Eyes	: T	here are no data available o	n the mixture i	tself.		
Respiratory	: Т	here are no data available o	n the mixture i	tself.		
<u>Sensitization</u> <u>Conclusion/Summary</u> Skin Respiratory	• • • •	ere are no data available on ere are no data available on				
<u>Mutagenicity</u> Conclusion/Summary	: Tł	nere are no data available or	the mixture it	self.		
Carcinogenicity Conclusion/Summary : There are no data available on the mixture itself.						
Reproductive toxicity Conclusion/Summary	: т	here are no data available o	n the mixture i	tself.		
<u>Teratogenicity</u> Conclusion/Summary	: т	here are no data available o	n the mixture i	tself.		

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

Name	Classification	Route of exposure	Target organs
Xylene 2-methylpropan-1-ol	Category 3 Category 3	-	Narcotic effects Respiratory tract irritation
1-methoxy-2-propanol	Category 3 Category 3	-	Narcotic effects 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**

Name	Result
ethylbenzene	ASPIRATION HAZARD - Category 1
2-methylpropan-1-ol	ASPIRATION HAZARD - Category 2

#### Potential chronic health effects

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### Section 11. Toxicological information

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	: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

#### **Additional information**

Prolonged or repeated contact may dry skin and cause irritation. 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. Avoid contact with skin and clothing. Exposure to amine vapor has been reported to cause transient corneal edema described as blue haze, halo effect, foggy or blurred vision for several hours. This condition is typically temporary and does not cause permanent visual effects. When the proper eye protection specified in Section 8 is worn, exposure is significantly reduced and the condition has not been observed.

Chemical name	Identifiers	GHS Classification
Xylene	CAS: 1330-20-7	FLAMMABLE LIQUIDS - Category 3
-	EC: 215-535-7	ACUTE TOXICITY (dermal) - Category 4
		ACUTE TOXICITY (inhalation) - Category 4
		SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		SPECIFIC TARGET ORĞAN TOXICITY (SINGLE
		EXPOSURE) (Narcotic effects) - Category 3
		SPECIFIC TARGET ORGAN TOXICITY
		(REPEATED EXPOSURE) - Category 1
Cashew, nutshell liq.	CAS: 8007-24-7	ACUTE TOXICITY (oral) - Category 4
	EC: 232-355-4	ACUTE TOXICITY (dermal) - Category 4
		SKIN IRRITATION - Category 2
		SERIOUS EYE DAMAGE - Category 1
		SKIN SENSITIZATION - Category 1B
		AQUATIC HAZARD (LONG-TERM) - Category 4
Phenol, methylstyrenated	CAS: 68512-30-1	SKIN IRRITATION - Category 2
	EC: 270-966-8	SKIN SENSITIZATION - Category 1B
	20.2.00000	AQUATIC HAZARD (LONG-TERM) - Category 3
2,4,6-tris(dimethylaminomethyl)phenol	CAS: 90-72-2	CORROSIVE TO METALS - Category 1
_, ., •	EC: 202-013-9	ACUTE TOXICITY (oral) - Category 4
	20.202 010 0	ACUTE TOXICITY (dermal) - Category 4
		SKIN CORROSION - Category 1C
		SERIOUS EYE DAMAGE - Category 1
ethylbenzene	CAS: 100-41-4	FLAMMABLE LIQUIDS - Category 2
ouryisonzono	EC: 202-849-4	ACUTE TOXICITY (inhalation) - Category 4
		CARCINOGENICITY - Category 2
		ASPIRATION HAZARD - Category 1
		AQUATIC HAZARD (LONG-TERM) - Category 3
2-methylpropan-1-ol	CAS: 78-83-1	FLAMMABLE LIQUIDS - Category 3
	EC: 201-148-0	SKIN IRRITATION - Category 2
		SERIOUS EYE DAMAGE - Category 1
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE
		EXPOSURE) (Respiratory tract irritation) -
		Category 3
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## Section 11. Toxicological information

1-methoxy-2-propanol	CAS: 107-98-2 EC: 203-539-1	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 2 FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
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## Section 12. Ecological information

### A. Ecotoxicity

Product/ingredient name	Result	Species	Exposure
2,4,6-tris (dimethylaminomethyl) phenol	Acute LC50 >100 mg/l	Daphnia	48 hours
	Acute LC50 >100 mg/l	Fish	96 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water Chronic NOEC 1 mg/l Fresh water	Daphnia Daphnia - <i>Ceriodaphnia dubia</i>	48 hours -
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
1-methoxy-2-propanol	Acute LC50 23300 mg/l Acute LC50 >4500 mg/l Fresh water	Daphnia Fish	48 hours 96 hours

### B. Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
2,4,6-tris (dimethylaminomethyl) phenol	OECD 301D Ready Biodegradability - Closed Bottle Test	4 % - Not r	eadily - 28 days	-		-
ethylbenzene	-	79 % - Rea	adily - 10 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	gradability
Xylene 2,4,6-tris (dimethylaminomethyl) phenol ethylbenzene	-		-		Readily Not rea	dily

### C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential	
Xylene	3.12	7.4 to 18.5	Low	
Čashew, nutshell liq.	>4.78	-	High	
Phenol, methylstyrenated	3.627	-	Low	
2,4,6-tris	0.219	-	Low	
(dimethylaminomethyl)				
phenol				
ethylbenzene	3.6	79.43	Low	
2-methylpropan-1-ol	1	-	Low	
1-methoxy-2-propanol	<1	-	Low	

### D. Mobility in soil

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### Section 12. Ecological information

Soil/water partition coefficient (Koc)

: Not available.

E. <u>Other adverse effects</u> : No known significant effects or critical hazards.

### Section 13. Disposal considerations

 A. Disposal methods
 The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

B. Disposal precautions
 This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

### Section 14. Transport information

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

#### **Additional information**

- **UN** : 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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## Section 14. Transport information

Transport in bulk according : Not applicable. to IMO instruments

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## Section 15. Regulatory information

Α.	. 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.				
	Article 2 of Youth Protection Act on Substances Hazardous to Youth	: It is not allowed to sell to persons under the age of 19.				
	Exposure Limits of Chem	ical Substances and Physical Factors				
	The following components	have an OEL:				
	Annex 19 (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, ethyl benzene, isobutyl alcohol				
	ISHA Enforcement Regs Annex 22 (Harmful Factors Subject to Special Health Check- up)	: The following components are listed: Xylene, Ethyl benzene, Isobutyl alcohol				
	Standard of Industrial Safety and Health Annex 12 (Hazardous substances subject to control)	: The following components are listed: xylene, ethyl benzene, isobutyl alcohol				
В.	Regulation according to (	Chemicals Control Act				
	Article 11 (TRI)	: The following components are listed: Xylene including o-,m-,p- isomer, Ethylbenzene				
	Article 18 Prohibited (K- Reach Article 27)	: None of the components are listed.				
	Article 19 Subject to authorization (K-Reach Article 25)	: None of the components are listed.				
	Article 20 Restricted (K- Reach Article 27)	: None of the components are listed.				

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### Section 15. Regulatory information

	Article 20 Toxic Chemicals (K-Reach Article 20)	:	Not applicable		
	Korea inventory	1	All components are listed or exempted.		
	Article 39 (Accident Precaution Chemicals)	1	None of the components are listed.		
C.	Dangerous Materials Safety Management Act	:	Class: Class 4 - Flammable Liquid Item: 4. Class 2 petroleums - Water-insoluble liquid Threshold: 1000 L Danger category: III Signal word: Contact with sources of ignition prohibited		
D.	Wastes regulation	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.		
Ε.	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

Α.	References	Korean Ministry of Environment; Chemical Control Act Korean Ministry of Labor; Industrial Safety and Health Act NIER Notice Registry of Toxic Effects of Chemical Substances (RTECS) U.S. Environmental Protection Agency, AQUIRE (Aquatic toxicity Information Retrieval) ECOTOX Database System.	
В.	First issue date	5/30/2018	
C.	Date of issue/Date of revision	10/14/2024	
D.	Version	4.08	
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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.