# SAFETY DATA SHEET



Date of issue 1/5/2022 (month/day/year)

Version 9

### Section 1. Chemical product and company identification

A. Product name	: SIGMAPRIME 200 HARDENER
Product code	: 00254137

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

Product use Use of the substance/ mixture	<ul><li>Professional applications, Used by spraying.</li><li>Coating.</li></ul>
Uses advised against	: Product is not intended, labelled or packaged for consumer use.
C. Supplier's or Importer's information Email Address	: PPG SSC (680-090) 19, Yeocheon-ro 217beon-gil, Nam-gu, Ulsan, Korea Tel: +82-52-210-8222 Korea.MSDS@PPG.COM
Emergency telephone number:	: +82-52-210-8222

## Section 2. Hazards identification

A. Hazard classification	: AMMABLE LIQUIDS - Category 3
	SKIN IRRITATION - Category 2
	SERIOUS EYE DAMAGE - Category 1
	SKIN SENSITISATION - Category 1
	CARCINOGENICITY - Category 2
	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 1
	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
<del></del>	

This product is classified in accordance with the Industrial Safety and Health Act and the Chemical Control Act.

B. GHS label elements, including precautionary statements



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	Hazard statements		<ul> <li>H226 - Flammable liquid and vapour.</li> <li>H315 - Causes skin irritation.</li> <li>H317 - May cause an allergic skin reaction.</li> <li>H318 - Causes serious eye damage.</li> <li>H335 - May cause respiratory irritation.</li> <li>H336 - May cause drowsiness or dizziness.</li> <li>H351 - Suspected of causing cancer.</li> <li>H372 - Causes damage to organs through prolonged or repeated exposure. (central nervous system (CNS), kidneys, liver)</li> <li>H412 - Harmful to aquatic life with long lasting effects.</li> </ul>
	Precautionary statements		
	Prevention	:	<ul> <li>P202 - Do not handle until all safety precautions have been read and understood.</li> <li>P280 - Wear protective gloves, protective clothing and eye or face protection.</li> <li>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P241 - Use explosion-proof electrical, ventilating or lighting equipment.</li> <li>P242 - Use non-sparking tools.</li> <li>P243 - Take action to prevent static discharges.</li> <li>P273 - Avoid release to the environment.</li> <li>P260 - Do not breathe vapour.</li> <li>P270 - Do not eat, drink or smoke when using this product.</li> <li>P264 - Wash thoroughly after handling.</li> </ul>
	Response	-	<ul> <li>P308 + P313 - IF exposed or concerned: Get medical advice or attention.</li> <li>P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.</li> <li>P362 + P364 - Take off contaminated clothing and wash it before reuse.</li> <li>P302 + P352 - IF ON SKIN: Wash with plenty of water.</li> <li>P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.</li> <li>P305 + P351 + P338, P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>Immediately call a POISON CENTER or doctor.</li> </ul>
	Storage	:	P403 + P233 - Store in a well-ventilated place. Keep container tightly closed. P403 + P235 - Keep cool.
	Disposal	:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
).	Other hazards which do not result in classification	:	Causes digestive tract burns. Prolonged or repeated contact may dry skin and cause irritation.

## Section 3. Composition/information on ingredients

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

**CAS number** 

С

: Not applicable.

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### Section 3. Composition/information on ingredients

Chemical name	Common name	Identifiers	%
Ź-methylpropan-1-ol	ISOBUTYL ALCOHOL	CAS: 78-83-1	20 - <30
Xylene	XYLENES	CAS: 1330-20-7	20 - <30
Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines	POLYAMIDE RESIN	CAS: 68410-23-1	20 - <30
ethylbenzene	ETHYLBENZENE	CAS: 100-41-4	1 - <5
2,4,6-tris(dimethylaminomethyl)phenol	2;4;6 TRIS (DIMETHYLAMINOMETHYL) PHENOL	CAS: 90-72-2	1 - <5
3,6-diazaoctanethylenediamin	TRIETHYLENETETRAMINE	CAS: 112-24-3	1 - <5

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 recognised 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 the container or label. Keep person warm and at rest. Do NOT induce vomiting.
Е.	Notes to physician	:	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	Specific treatments	1	No specific treatment.
	Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

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### Section 5. Firefighting measures

	•		•
Α.	Extinguishing media		
	Suitable extinguishing media	1	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 vapour. 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 harmful 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
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 spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**B. Environmental** precautions : Avoid dispersal of spilt 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.

### C. Methods and material 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 the 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 spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

### Section 7. Handling and storage

	Precautions for safe handling	: Fut 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 vapour 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.
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B. Conditions for safe storage, including any incompatibilities
 Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising 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 unlabelled 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
2-methylpropan-1-ol		Ministry of Employment and Labor
		(Republic of Korea, 1/2020).
		TWA: 50 ppm 8 hours.
Xylene		Ministry of Employment and Labor
		(Republic of Korea, 1/2020).
		STEL: 150 ppm 15 minutes.
		TWA: 100 ppm 8 hours.
ethylbenzene		Ministry of Employment and Labor (Republic of Korea, 1/2020).
		STEL: 125 ppm 15 minutes.
		TWA: 100 ppm 8 hours.
Recommended monitoring procedures	atmosphere or biological monitorin of the ventilation or other control m protective equipment. Reference s	with exposure limits, personal, workplace g may be required to determine the effectiveness easures and/or the necessity to use respiratory should be made to appropriate monitoring guidance documents for methods for the nces will also be required.
Appropriate engineering controls	ventilation or other engineering cor	Use process enclosures, local exhaust ntrols to keep worker exposure to airborne nded or statutory limits. The engineering control

limits. Use explosion-proof ventilation equipment.

also need to keep gas, vapour or dust concentrations below any lower explosive

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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	:	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	1	Liquid.
	Colour	1	Yellow.
В.	Odour	1	Amine-like.
С.	Odour 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: 25°C (77°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

Solubility in water

M. Vapour density

L. Solubility

: Greatest known range: Lower: 1.7% Upper: 10.9% (2-methylpropan-1-ol)

	explosive (flammable)		
	limits		
Κ.	Vapour pressure	:	

5		Vapou	Vapour Pressure at 20°C			Vapour pressure at 50°C		
	Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
	2-methylpropan-1-ol	<12	<1.6	DIN EN 13016-2				
	Insoluble in the follow	wing mate	rials: co	old water.	•			
	Not available.							
	Not available.							
	0.95							

- N. Relative density O. Partition coefficient: n-: Not applicable. octanol/water
- : 430°C (806°F) P. Auto-ignition temperature
- **Q.** Decomposition : Not available. temperature : Kinematic (room temperature): >400 mm<sup>2</sup>/s (>400 cSt) **R. Viscosity** Kinematic (40°C (104°F)): >21 mm<sup>2</sup>/s (>21 cSt)
  - Flow time (ISO 2431) : Not available.
- S. Molecular weight : Not applicable.

## Section 10. Stability and reactivity

Α.	Chemical stability	1	The product is stable.
	Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
В.	Conditions to avoid	:	When exposed to high temperatures may produce hazardous decomposition products.
C.	Incompatible materials	:	Keep away from the following materials to prevent strong exothermic reactions: oxidising 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

A. Information on likely routes : Not available. of exposure							
Potential acute hea	Ilth effects						
Inhalation	<ul> <li>Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.</li> </ul>						
Ingestion	: Corrosive to the digestive tract. Causes burns. Can cause central nervous system (CNS) depression.						

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## Section 11. Toxicological information

Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Eye contact	: Causes serious eye damage.

: Causes serious eye damage.

#### **Over-exposure signs/symptoms**

Inhalation	Adverse symptoms may include the following: respiratory tract irritation coughing 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
✓methylpropan-1-ol	LC50 Inhalation Vapour	Rat	24.6 mg/l	4 hours
	LD50 Dermal	Rabbit	2460 mg/kg	-
	LD50 Oral	Rat	2830 mg/kg	-
Xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat	17.8 mg/l	4 hours
•	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
2,4,6-tris(dimethylaminomethyl)phenol	LD50 Dermal	Rabbit	1.28 g/kg	-
	LD50 Dermal	Rat	1280 mg/kg	-
	LD50 Oral	Rat	1200 mg/kg	-
3,6-diazaoctanethylenediamin	LD50 Dermal	Rabbit	1465 mg/kg	-
	LD50 Oral	Rat	1716 mg/kg	-

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

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation		
₩ylene	Skin - Moderate irritant	Rabbit	-	24 hours 500	-		
2,4,6-tris(dimethylaminomethyl) phenol	Skin - Visible necrosis	Rabbit	-	mg 4 hours	7 days		
Conclusion/Summary							
Skin : There are no data available on the mixture itself.							

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### Section 11. Toxicological information

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

#### **Sensitisation**

Product/ingredient name	Route of exposure	Species	Result
✓atty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines	skin	Mouse	Sensitising
2,4,6-tris (dimethylaminomethyl)phenol	skin	Guinea pig	Sensitising
3,6-diazaoctanethylenediamin	skin	Guinea pig	Sensitising
		available on the mixture itself. available on the mixture itself.	
	There are no data a	available on the mixture itself.	
Conclusion/Summary : Reproductive toxicity	There are no data	available on the mixture itself.	
	There are no data	available on the mixture itself.	

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

<u>Specific target organ toxicity (single exposure)</u>							
Name	Classification	Route of exposure	Target organs				
2-methylpropan-1-ol	Category 3	-	Respiratory tract irritation				
Xylene	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
	ASPIRATION HAZARD - Category 2 ASPIRATION HAZARD - Category 1

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### Section 11. Toxicological information

### Potential chronic health effects

General	: Causes damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: 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**

Causes digestive tract burns. 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 vapour/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.

Chemical name	Identifiers	GHS Classification
✓-methylpropan-1-ol	CAS: 78-83-1	FLAMMABLE LIQUIDS - Category 3 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 2
Xylene	CAS: 1330-20-7	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1
Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines	CAS: 68410-23-1	SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1
ethylbenzene	CAS: 100-41-4	SKIN SENSITISATION - Category 1A LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 FLAMMABLE LIQUIDS - Category 2
2,4,6-tris(dimethylaminomethyl)phenol	CAS: 90-72-2	ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 2 ASPIRATION HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 CORROSIVE TO METALS - Category 1 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 SKIN CORROSION - Category 1C SERIOUS EYE DAMAGE - Category 1
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## Section 12. Ecological information

### A. Ecotoxicity

Product/ingredient name	Result	Species	Exposure
-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines	EC50 4.11 mg/l Fresh water	Algae	72 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water Chronic NOEC 1 mg/l Fresh water	Daphnia Daphnia - Ceriodaphnia dubia	48 hours -
2,4,6-tris (dimethylaminomethyl) phenol	Acute LC50 175 mg/l	Fish	96 hours

### B. Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
Tatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines ethylbenzene	-	15 % - 28 0 79 % - Rea	days adily - 10 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
Kylene Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines ethylbenzene	-				Readily Not read Readily	

### C. Bioaccumulative potential

Product/ingredient name	ne LogPow BCF		Potential	Potential	
₽-methylpropan-1-ol	1	-	low		
Xylene	3.12	7.4 to 18.5	low		
ethylbenzene	3.6	79.43	low		
2,4,6-tris	0.219	-	low		
(dimethylaminomethyl)					
phenol					
3,6-diazaoctanethylenediamin	-1.66 to -1.4	-	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 minimised 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. Vapour 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 spilt 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 RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL
C. Transport hazard class(es)	3	3	3
D. Packing group		III	
Environmental hazards	No.	No.	No.
E. Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

#### Additional information

UN	: This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5.1.
IMDG	: This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5.
ΙΑΤΑ	: None identified.

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

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### Section 14. Transport information

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

Transport in bulk according	1	Not applicable.
to IMO instruments		

### Section 15. Regulatory information

Α.	Regulation according to I	<u>SHA</u>
	ISHA article 117 (Harmful substances prohibited from manufacture)	: None of the components are listed.
	ISHA article 118 (Harmful substances requiring permission)	: None of the components are listed.
	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	cal Substances and Physical Factors
	The following components P-methylpropan-1-ol Xylene ethylbenzene	have an OEL:
	Annex 19 (Exposure standards established for harmful factors)	: None of the components are listed.
	ISHA Enforcement Regs Annex 21 (Harmful factors subject to Work Environment Measurement)	: The following components are listed: isobutyl alcohol, xylene, ethyl benzene
	ISHA Enforcement Regs Annex 22 (Harmful Factors Subject to Special Health Check- up)	: The following components are listed: Isobutyl alcohol, Xylene, Ethyl benzene
	Standard of Industrial Safety and Health Annex 12 (Hazardous substances subject to control)	: The following components are listed: isobutyl alcohol, xylene, ethyl benzene
В.	Regulation according to (	Chemicals Control Act
	CCA 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.

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### Section 15. Regulatory information

aut	icle 19 Subject to thorization (K-Reach icle 25)	:	None of the components are listed.
	icle 20 Restricted (K- ach Article 27)	:	None of the components are listed.
Ch	icle 20 Toxic emicals (K-Reach icle 20)	:	Not applicable
Ko	rea inventory	1	All components are listed or exempted.
(Ac	A Article 39 ccident Precaution emicals)	:	None of the components are listed.
	ngerous Materials fety 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>Wa</u>	stes regulation	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
E. <u>Re</u>	gulation according to o	oth	<u>er foreign laws</u>
env reg	fety, health and vironmental julations specific for 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.	Date of issue/Date of revision	: 1/5/2022
C.	Version	: 9
	Prepared by	: EHS
D.	Other	

Indicates information that has changed from previously issued version.

#### <u>Disclaimer</u>

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.