SAFETY DATA SHEET



(month/day/year) **Date of issue** 8/13/2024

Version 12

Section 1. Chemical product and company identification

A. Product	name :	: SIGMATHERM 350 RAL 9010/CNC-7003	
Product	code :	: 00252521	

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

	Product use Use of the substance/		Professional applications, Used by spraying. Coating.
I	mixture Uses advised against		Product is not intended, labelled or packaged for consumer use.
	Supplier's or Importer's information Email Address	:	PPG SSC (680-090) 19, Yeocheon-ro 217beon-gil, Nam-gu, Ulsan, Korea Tel: +82-52-210-8222 Korea.MSDS@PPG.COM
	Emergency telephone number:	:	+82-52-210-8331

Section 2. Hazards identification

4	A. Hazard classification	: FLAMMABLE LIQUIDS - Category 3
		SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		CARCINOGENICITY - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -
		Category 3
		SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
		AQUATIC HAZARD (LONG-TERM) - Category 3

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

B. GHS label elements, including precautionary statements ÷

Symbol



Signal word

: Danger

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Section 2. Hazards identification

Hazard statements	ous system (CNS), k	ion. /e irritation. ness or dizziness. sing cancer. o organs through prolonged or repeated exposure. (central
Precautionary statements		
Prevention	 O - Wear protective g O - Keep away from h ces. No smoking. 1 - Use explosion-pro 2 - Use non-sparking 3 - Take action to pre 3 - Avoid release to th O - Do not breathe value 	vent static discharges. ne environment. por. nr smoke when using this product.
Response	4 + P312 - IF INHALE 2 + P364 - Take off c 2 + P352 - IF ON SKI 5 + P351 + P338 - IF 10ve contact lenses, i	d or concerned: Get medical advice or attention. ED: Call a POISON CENTER or doctor if you feel unwell. contaminated clothing and wash it before reuse. N: Wash with plenty of water. IN EYES: Rinse cautiously with water for several minutes. f present and easy to do. Continue rinsing. tion persists: Get medical advice or attention.
Storage	3 + P233 - Store in a 3 + P235 - Keep cool	well-ventilated place. Keep container tightly closed.
Disposal	1 - Dispose of conten onal and international	ts and container in accordance with all local, regional, regulations.
C. Other hazards which do not result in classification	onged or repeated co	ntact may dry skin and cause irritation.

Section 3. Composition/information on ingredients

CAS number/other identifiers

CAS number : Not applicable.

Chemical name	Common name	Identifiers	%
Vylene	XYLENES	CAS: 1330-20-7	30 - <40
titanium dioxide	TITANIUM DIOXIDE	CAS: 13463-67-7	20 - <30
ethylbenzene	ETHYLBENZENE	CAS: 100-41-4	5 - <10
butan-1-ol	1-BUTANOL	CAS: 71-36-3	1 - <5
propylidynetrimethanol octamethylcyclotetrasiloxane	TRIMETHYLOLPROPANE OCTAMETHYLCYCLOTETRASILOXANE	CAS: 77-99-6 CAS: 556-67-2	0.1 - <1 <0.1

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Section 3. Composition/information on ingredients

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	:	Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
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.
С.	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	:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	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.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Α.	Extinguishing media		
	Suitable extinguishing media	:	Use dry chemical, CO_2 , water spray (fog) or foam.
	Unsuitable extinguishing media	:	Do not use water jet.
В.	B. Specific hazards arising from the chemical		An 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 metal oxide/oxides Formaldehyde.
C.	Special equipment for fire-fighting	:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
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Section 5. Fire-fighting measures

Fire-fighting procedures : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Section 6. Accidental release measures

- A. Personal precautions, protective equipment and emergency procedures
 No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- **B. Environmental** precautions : Kvoid 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.

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

A. Precautions for safe handling
 i Put on appropriate personal protective equipment (see Section 8). 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. 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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Section 7. Handling and storage

B. Conditions for safe storage, including an 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.
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Section 8. Exposure controls/personal protection

A. Occupational exposure limits

Ingredient name		Exposure limits
▼ylene		Ministry of Employment and Labor (Republic of Korea, 1/2020). [Xylene] STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours.
titanium dioxide		Ministry of Employment and Labor (Republic of Korea, 1/2020). TWA: 10 mg/m ³ 8 hours. Form: total dust with less than 1% of free SiO2
ethylbenzene		Ministry of Employment and Labor (Republic of Korea, 1/2020). STEL: 125 ppm 15 minutes. TWA: 100 ppm 8 hours.
butan-1-ol		Ministry of Employment and Labor (Republic of Korea, 1/2020). Absorbed through skin. TWA: 20 ppm 8 hours.
Recommended monitoring procedures		opriate monitoring standards. Reference to ethods for the determination of hazardous
Appropriate engineering controls	ventilation or other engineering cont contaminants below any recommen	Use process enclosures, local exhaust trols to keep worker exposure to airborne ided or statutory limits. The engineering controls st concentrations below any lower explosive ion equipment.
Environmental exposure controls	they comply with the requirements of	process equipment should be checked to ensure of environmental protection legislation. In some igineering modifications to the process uce emissions to acceptable levels.
Personal protective equip	ment	
Respiratory protection	hazards of the product and the safe	d on known or anticipated exposure levels, the e working limits of the selected respirator. If tions above the exposure limit, they must use
	appropriate, certified respirators. L	Jse a properly fitted, air-purifying or air-fed ved standard if a risk assessment indicates this is
Eye protection	appropriate, certified respirators. L respirator complying with an approv	Jse a properly fitted, air-purifying or air-fed

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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	: For prolonged or repeated handling, use the following type of gloves:
	Not recommended: nitrile rubber Recommended: butyl rubber, neoprene, polyvinyl alcohol (PVA), Viton®
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. 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.

А.	Appearance				
	Physical state	:	Liquid.		
	Color	1	White.		
В.	Odor	1	Aromatic.		
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	1	Closed cup: 26°C (78	3.8°F)	
н.	Evaporation rate	1	Not available.		
Т.	Flammability (solid, gas)	:	Not available.		
J.	Lower and upper explosive (flammable) limits	:	Greatest known rang	e: Lower: 1.4% Upper: 11.3% (I	outan-1-ol)
К.	Vapor pressure	1		Vapor Pressure at 20°C	Vapor p

	Vapor	r <mark>Pressu</mark> i	re at 20°C	Vapor pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
ethylbenzene	9.30076	1.2				

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Section 9. Physical and chemical properties

Solubility(ies)		Media	Result			
	1	cold water	Not soluble			
Solubility in water	:	Not available.				
Vapor density M.	:	Not available.				
Relative density	:	1.24				
 Partition coefficient: n- octanol/water 	;	Not applicable.				
Auto-ignition temperature	-					
		Ingredient name	°C	°F	Method	
		butan-1-ol	355	671	EU A.15	
Decomposition Q. temperature	:	Not available.		I		
R. Viscosity	:	Kinematic (40°C (104°	F)): >21 mm²/s (>2 ⁻	1 cSt)		
Flow time (ISO 2431)	:	Not available.				
Molecular weight	1.1	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: oxidizing agents, strong alkalis, strong acids.
D.	Hazardous decomposition products	:	Depending on conditions, decomposition products may include the following materials: carbon oxides Formaldehyde. metal oxide/oxides
1			

Section 11. Toxicological information

A. Information on the like routes of exposure	ely : Not available.
Potential acute health ef	ffects
Inhalation	: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Ingestion	: Can cause central nervous system (CNS) depression.
Skin contact	: Causes skin irritation. Defatting to the skin.
Eye contact	: Causes serious eye irritation.
	matema

Over-exposure signs/symptoms

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Section 11. Toxicological information

Inhalation	:	Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Ingestion	1	No specific data.
Skin contact	:	Adverse symptoms may include the following: irritation redness dryness cracking
Eye contact	:	Adverse symptoms may include the following: pain or irritation watering redness

B. Health hazards

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
X ylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
titanium dioxide	LC50 Inhalation Dusts and	Rat	>6.82 mg/l	4 hours
	mists			
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 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	-
butan-1-ol	LC50 Inhalation Vapor	Rat	24000 mg/m ³	4 hours
	LD50 Dermal	Rabbit	3400 mg/kg	-
	LD50 Oral	Rat	790 mg/kg	-
propylidynetrimethanol	LD50 Dermal	Rabbit	10 g/kg	-
	LD50 Oral	Rat	14000 mg/kg	-
octamethylcyclotetrasiloxane	LC50 Inhalation Vapor	Rat	36 g/m ³	4 hours
	LD50 Dermal	Rat	>2375 mg/kg	-
	LD50 Oral	Rat	>4800 mg/kg	-

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

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation	
X ylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-	
Conclusion/Summary						
Skin	: There are no data available on the mixture itself.					
Eyes	: There are no data available on the mixture itself.					
Respiratory	: There are no data available on the mixture itself.					

Sensitization Conclusion/Summary

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Section 11. Toxicological information

Skin	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
Mutananiaitu	
<u>Mutagenicity</u>	
Conclusion/Summary	: There are no data available on the mixture itself.
Carcinogenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
conclusion/cumuly	
Reproductive toxicity	
<u>Reproductive toxicity</u>	
Conclusion/Summary	: There are no data available on the mixture itself.
Teratogenicity	

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

Specific target organ toxicity (single exposure)

	Route of exposure	Target organs
gory 3 gory 3	-	Narcotic effects Respiratory tract irritation Narcotic effects
g	ory 3	ory 3 -

Specific target organ toxicity (repeated exposure)

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

Aspiration hazard

Name	Result
ethylbenzene	ASPIRATION HAZARD - Category 1

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.
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

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Section 11. Toxicological 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. Contains a substance that may emit formaldehyde if stored beyond its shelf life and/or during cure at curing temperatures greater than 60C (140F). Avoid contact with skin and clothing.

Chemical name	Identifiers	GHS Classification
₩ylene	CAS: 1330-20-7	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
titanium dioxide ethylbenzene	CAS: 13463-67-7 CAS: 100-41-4	CARCINOGENICITY - Category 2 FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 2 ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 3
butan-1-ol	CAS: 71-36-3	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 4 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
propylidynetrimethanol octamethylcyclotetrasiloxane	CAS: 77-99-6 CAS: 556-67-2	TOXIC TO REPRODUCTION - Category 2 FLAMMABLE LIQUIDS - Category 3 TOXIC TO REPRODUCTION - Category 2 AQUATIC HAZARD (LONG-TERM) - Category 1

Section 12. Ecological information

A. Ecotoxicity

Product/ingredient name	Result	Species	Exposure
titanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
butan-1-ol	Acute LC50 1376 mg/l	Fish	96 hours
propylidynetrimethanol	Acute LC50 >1000 mg/l	Fish	96 hours
octamethylcyclotetrasiloxane	Chronic NOEC 100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	21 days

B. Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
ethylbenzene	-	79 % - Readily - 10 days	-	-

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Section 12. Ecological information

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

C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
X ylene	3.12	7.4 to 18.5	Low
ethylbenzene	3.6	79.43	Low
butan-1-ol	1	-	Low
propylidynetrimethanol	-0.47	-	Low
octamethylcyclotetrasiloxane	6.488	-	High

D. Mobility in soil

Soil/water partition : Not available. coefficient (Koc)

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	IAI	Α
A. UN number	UN1263	UN1263	UN1:	263
B. UN proper shipping name	PAINT	PAINT	PAII	NT
C. Transport hazard class(es)	3	3	3	
D. Packing group	III	III		
Environmental hazards	No.	No.	Nc).
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Additional information

UN	: None identified.
IMDG	: None identified.
ΙΑΤΑ	: None identified.

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

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

Transport in bulk according : Not applicable. to IMO instruments

Section 15. Regulatory information

			-		
A .	Regulation according to I	SH	IA A A A A A A A A A A A A A A A A A A		
	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 Chemical Substances and Physical Factors				
	The following components Vene titanium dioxide ethylbenzene butan-1-ol	ha	ave 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: xylene, titanium dioxide, ethyl benzene, n- butanol		

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Section 15. Regulatory information

	ISHA Enforcement Regs Annex 22 (Harmful Factors Subject to Special Health Check- up)	:	The following components are listed: Xylene, Ethyl benzene, n-Butanol
	Standard of Industrial Safety and Health Annex 12 (Hazardous substances subject to control)	:	The following components are listed: xylene, titanium dioxide, ethyl benzene, n- butanol
В.	Regulation according to (Che	emicals 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.
	Article 20 Toxic Chemicals (K-Reach Article 20)	:	Not applicable
	Korea inventory	:	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.
Е.	Regulation according to o	oth	er 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	:	9/12/2018
C .	Date of issue/Date of revision	:	8/13/2024
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Section 16. Other information

D.	Version	:	12
	Prepared by	:	EHS

E. 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.