SAFETY DATA SHEET



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

Version 7

Section 1. Chemical product and company identification

A. Product name	: PPG VIKOTE 56 BASE L(D)
Product code	: 00393184

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 Korea MSDS@PPG COM
Email Address	Korea.MSDS@PPG.COM
Emergency telephone number:	: <mark>⊭</mark> 82-52-210-8331

Section 2. Hazards identification

Α.	Hazard classification	: AMMABLE 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 2

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

Product code 00393184

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

Product name PPG VIKOTE 56 BASE L(D)

Section 2. Hazards identification

Hazard statements	 F226 - Flammable liquid and vapor. H315 - Causes skin irritation. H319 - Causes serious eye irritation. H336 - May cause drowsiness or dizziness. H351 - Suspected of causing cancer. H372 - Causes damage to organs through prolonged or repeated exposure. (central nervous system (CNS), kidneys, liver) H411 - Toxic to aquatic life with long lasting effects.
Precautionary statement	S
Prevention	 P202 - Do not handle until all safety precautions have been read and understood. P280 - Wear protective gloves, protective clothing and eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P241 - Use explosion-proof electrical, ventilating or lighting equipment. P242 - Use non-sparking tools. P243 - Take action to prevent static discharges. P273 - Avoid release to the environment. P260 - Do not breathe vapor. P270 - Do not eat, drink or smoke when using this product. P264 - Wash thoroughly after handling.
Response	 P391 - Collect spillage. P308 + P313 - IF exposed or concerned: Get medical advice or attention. P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell. P362 + P364 - Take off contaminated clothing and wash it before reuse. P302 + P352 - IF ON SKIN: Wash with plenty of water. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.
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.
C. Other hazards which do not result in classification	: Prolonged or repeated contact 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	%
X ylene	XYLENES	CAS: 1330-20-7	20 - <30
titanium dioxide	TITANIUM DIOXIDE	CAS: 13463-67-7	10 -<20
Solvent naphtha (petroleum), light aromatic	SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC	CAS: 64742-95-6	10 -<20
1,2,4-trimethylbenzene	1,2,4-TRIMETHYL BENZENE	CAS: 95-63-6	5 - <10
ethylbenzene	ETHYLBENZENE	CAS: 100-41-4	1 - <5
mesitylene	1,3,5-TRIMETHYLBENZENE	CAS: 108-67-8	1 - <5
propylbenzene	PROPYLBENZENE	CAS: 103-65-1	1 - <5
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Section 3. Composition/information on ingredients

1,2,3-trimethylbenzene	1,2,3-TRIMETHYL BENZENE	CAS: 526-73-8	1 - <5
cyclohexanone	cyclohexanone	CAS: 108-94-1	0.1 - <1
cumene	CUMENE	CAS: 98-82-8	0.1 - <1
ethanol	ETHYL ALCOHOL	CAS: 64-17-5	0.1 - <1
Toluene	TOLUENE	CAS: 108-88-3	0.1 - <1
titanium dioxide (<10 microns)	TITANIUM DIOXIDE (<10 microns)	CAS: 13463-67-7	0.1 - <1
propylidynetrimethanol	TRIMETHYLOLPROPANE	CAS: 77-99-6	0.1 - <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	:	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.
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.
Е.	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.	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.

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Section 5. Fire-fighting measures

			-
	Hazardous thermal decomposition products	:	Decomposition products may include the following materials: carbon oxides metal oxide/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. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
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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). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

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
 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.

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Section 7. Handling and storage

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	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 dus
	with less than 1% of free SiO2
1,2,4-trimethylbenzene	Ministry of Employment and Labor
•	(Republic of Korea, 1/2020). [Trimethyl
	benzene]
	TWA: 25 ppm 8 hours.
ethylbenzene	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	STEL: 125 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
mesitylene	Ministry of Employment and Labor
,	(Republic of Korea, 1/2020). [Trimethyl
	benzene]
	TWA: 25 ppm 8 hours.
1,2,3-trimethylbenzene	Ministry of Employment and Labor
	(Republic of Korea, 1/2020). [Trimethyl
	benzene]
	TWA: 25 ppm 8 hours.
cyclohexanone	Ministry of Employment and Labor
,	(Republic of Korea, 1/2020). Absorbed
	through skin.
	TWA: 25 ppm 8 hours.
	STEL: 50 ppm 15 minutes.
cumene	Ministry of Employment and Labor
	(Republic of Korea, 1/2020). Absorbed
	through skin.
	TWA: 50 ppm 8 hours.
ethanol	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	TWA: 1000 ppm 8 hours.
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S	ection 8. Exposu	re	controls/personal prot	ection
	Toluene titanium dioxide (<10 micro	ons)		Ministry of Employment and Labor (Republic of Korea, 1/2020). STEL: 150 ppm 15 minutes. TWA: 50 ppm 8 hours. 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
	Recommended monitoring procedures		Reference should be made to appropria national guidance documents for metho substances will also be required.	ate monitoring standards. Reference to ods for the determination of hazardous
В.	Appropriate engineering controls			s to keep worker exposure to airborne d or statutory limits. The engineering controls oncentrations below any lower explosive
	Environmental exposure controls			
C.	Personal protective equip	ome	nt	
	Respiratory protection	:	hazards of the product and the safe we workers are exposed to concentrations appropriate, certified respirators. Use	a known or anticipated exposure levels, the orking limits of the selected respirator. If s above the exposure limit, they must use a properly fitted, air-purifying or air-fed standard if a risk assessment indicates this is
	Eye protection		Chemical splash goggles.	
	Hand protection	:	be worn at all times when handling che this is necessary. Considering the par check during use that the gloves are s should be noted that the time to break	ers. In the case of mixtures, consisting of
	Gloves	:	For prolonged or repeated handling, us	se the following type of gloves:
			May be used: nitrile rubber Recommended: polyvinyl alcohol (PVA	A), Viton®
	Body protection Hygiene measures		being performed and the risks involved before handling this product. When th wear anti-static protective clothing. Fo discharges, clothing should include an	
			eating, smoking and using the lavatory Appropriate techniques should be used	v and at the end of the working period. d to remove potentially contaminated clothing. using. Ensure that eyewash stations and

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Product name PPG VIKOTE 56 BASE L(D)

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.							
	Color	1	Not available.							
В.	Odor	1	Aromatic.							
С.	Odor threshold	:	Not available.							
D.	рН	:	Not applicable.							
Ε.	Melting/freezing point	:	Not available.							
F.	Boiling point/boiling range	:	>37.78°C (>100°F)							
G.	Flash point	:	Closed cup: 32°C (89	9.6°F)						
н.	Evaporation rate	:	Not available.							
ι.	Flammability (solid, gas)	:	Not available.							
J.	Lower and upper explosive (flammable) limits	:	Greatest known rang light aromatic)	je: Lower:	1.4% U	pper:	7.6% (Sc	olvent	naphtha (p	etroleum),
Κ.	Vapor pressure	:	Vapor Pressure at 20°C			20°C	Vapor pressure at 50°			
			Ingredient name	mm Hg	kPa	Met		mm Hg	kPa	Method
			ethylbenzene	9.30076	1.2					
L.	Solubility(ies)		Media	Re	sult					
-	Colubility (ics)	Ċ	cold water	No	t soluble					
	Solubility in water	:	Not available.							
	Vapor density	:	Not available.							
Μ.	Relative density	÷	1.11							
N. O.	Partition coefficient: n- octanol/water	:	Not applicable.							
Ρ.	Auto-ignition temperature	:								
			Ingredient name		°C		°F		Method	
			Solvent naphtha (petroleu aromatic	um), light	280 to 4	70	536 to 87	8		
Q.	Decomposition temperature	:	Not available.		·					

- temperature Viscosity
- R. Flow time (ISO 2431)
- Molecular weight S.
- : Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)
- : Not available.
- : Not applicable.

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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
C.	Incompatible materials	:	products. 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 metal oxide/oxides

Section 11. Toxicological information

A. Information on the likely routes of exposure	Not available.
Potential acute health effe	<u>cts</u>
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.
Over-exposure signs/symp	<u>otoms</u>
Inhalation :	Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Ingestion :	No specific data.
Skin contact :	Adverse symptoms may include the following: irritation redness dryness cracking
Eye contact :	Adverse symptoms may include the following: pain or irritation watering redness
B. Health hazards	

Acute toxicity

Product name PPG VIKOTE 56 BASE L(D)

Section 11. Toxicological information

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		Ŭ	
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Solvent naphtha (petroleum), light aromatic	LD50 Dermal	Rabbit	3.48 g/kg	-
	LD50 Oral	Rat	8400 mg/kg	-
1,2,4-trimethylbenzene	LC50 Inhalation Vapor	Rat	18000 mg/m ³	4 hours
•	LD50 Oral	Rat	5 g/kg	-
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
mesitylene	LC50 Inhalation Vapor	Rat	24000 mg/m ³	4 hours
-	LD50 Oral	Rat	5000 mg/kg	-
propylbenzene	LD50 Oral	Rat	6040 mg/kg	-
1,2,3-trimethylbenzene	LD50 Oral	Rat	11.4 g/kg	-
cyclohexanone	LC50 Inhalation Gas.	Rat	8000 ppm	4 hours
-	LD50 Dermal	Rabbit	1100 mg/kg	-
	LD50 Oral	Rat	1800 mg/kg	-
cumene	LC50 Inhalation Vapor	Rat	39000 mg/m ³	4 hours
	LD50 Dermal	Rabbit	12.3 g/kg	-
	LD50 Oral	Rat	2260 mg/kg	-
ethanol	LC50 Inhalation Vapor	Rat	124700 mg/m ³	4 hours
	LD50 Dermal	Rat	17100 mg/kg	-
	LD50 Oral	Rat	7 g/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	-
titanium dioxide (<10 microns)	LC50 Inhalation Dusts and	Rat	>6.82 mg/l	4 hours
	mists		Ŭ	
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
propylidynetrimethanol	LD50 Dermal	Rabbit	10 g/kg	-
	LD50 Oral	Rat	14000 mg/kg	-

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

Irritation/Corrosion

Product/ingredient name		Result	Species	Score	Exposure	Observation
Vylene		Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Conclusion/Summary					U U	ļ
Skin	: 1	There are no data available	on the mixture i	itself.		
Eyes	: -	There are no data available	on the mixture i	itself.		
	There are no data available on the mixture itself.					

Conclusion/Summary Skin

: There are no data available on the mixture itself.

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Section 11. Toxicological information

Respiratory	: There are no data available on the mixture itself.
<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.
<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)

Name	Classification	Route of exposure	Target organs
▼ ylene	Category 3	-	Narcotic effects
Solvent naphtha (petroleum), light aromatic	Category 3	-	Narcotic effects
1,2,4-trimethylbenzene	Category 3	-	Respiratory tract irritation
mesitylene	Category 3	-	Respiratory tract irritation
propylbenzene	Category 3	-	Respiratory tract irritation
cyclohexanone	Category 3	-	Respiratory tract irritation
Toluene	Category 3	-	Narcotic effects

Specific target organ toxicity (repeated exposure)

Name	Classification	Route of exposure	Target organs
₩ylene	Category 1		central nervous system (CNS), kidneys, liver
Toluene	Category 2	-	-

Aspiration hazard

Name	Result
Solvent naphtha (petroleum), light aromatic	ASPIRATION HAZARD - Category 1
ethylbenzene	ASPIRATION HAZARD - Category 1
propylbenzene	ASPIRATION HAZARD - Category 1
Toluene	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.

Product name PPG VIKOTE 50 BASE L(D)

Section 11. Toxicological information

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.

Chemical name	Identifiers	GHS Classification
X 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 Solvent naphtha (petroleum), light aromatic	CAS: 13463-67-7 CAS: 64742-95-6	CARCINOGENICITY - Category 2 FLAMMABLE LIQUIDS - Category 3
		SKIN IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2
1,2,4-trimethylbenzene	CAS: 95-63-6	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 AQUATIC HAZARD (LONG-TERM) - Category 2
ethylbenzene	CAS: 100-41-4	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 2 ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 3
mesitylene	CAS: 108-67-8	FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 AQUATIC HAZARD (LONG-TERM) - Category 2
propylbenzene	CAS: 103-65-1	FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2

Product name PPG VIKOTE 56 BASE L(D)

Section 11. Toxicological information

-	1	
		SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
cyclohexanone	CAS: 108-94-1	FLAMMABLE LIQUIDS - Category 3
		ACUTE TOXICITY (oral) - Category 4
		ACUTE TOXICITY (dermal) - Category 4
		ACUTE TOXICITY (inhalation) - Category 4
		SKIN IRRITATION - Category 2
		SERIOUS EYE DAMAGE - Category 1
		CARCINOGENICITY - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE
		EXPOSURE) (Respiratory tract irritation) -
		Category 3
cumene	CAS: 98-82-8	FLAMMABLE LIQUIDS - Category 3
		CARCINOGENICITY - Category 2
ethanol	CAS: 64-17-5	FLAMMABLE LIQUIDS - Category 2
		EYE IRRITATION - Category 2A
		CARCINOGENICITY - Category 2
Toluene	CAS: 108-88-3	FLAMMABLE LIQUIDS - Category 2
		SKIN IRRITATION - Category 2
		TOXIC TO REPRODUCTION - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE
		EXPOSURE) (Narcotic effects) - Category 3
		SPECIFIC TARGET ORGAN TOXICITY
		(REPEATED EXPOSURE) - Category 2
		ASPIRATION HAZARD - Category 1
titanium dioxide (<10 microns)	CAS: 13463-67-7	CARCINOGENICITY - Category 2
propylidynetrimethanol	CAS: 77-99-6	TOXIC TO REPRODUCTION - Category 2

Section 12. Ecological information

A. <u>Ecotoxicity</u>

Product/ingredient name	Result	Species	Exposure
titanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
Solvent naphtha	Acute LC50 8.2 mg/l	Fish	96 hours
(petroleum), light aromatic	5		
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
5	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
ethanol	Acute EC50 7640 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
titanium dioxide (<10	Acute LC50 >100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
microns)			
propylidynetrimethanol	Acute LC50 >1000 mg/l	Fish	96 hours

B. Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
ethylbenzene	-	79 % - Rea	adily - 10 days	-		-
Product/ingredient name	Aquatic half-life	•	Photolysis		Biodeg	gradability
<mark>X</mark> ylene ethylbenzene ethanol Toluene	- - -		- - -		Readily Readily Readily Readily	,

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Section 12. Ecological information

C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
X ylene	3.12	7.4 to 18.5	Low
1,2,4-trimethylbenzene	3.63	120.23	Low
ethylbenzene	3.6	79.43	Low
mesitylene	3.42	186.21	Low
propylbenzene	3.69	-	Low
1,2,3-trimethylbenzene	3.66	194.98	Low
cyclohexanone	0.86	-	Low
cumene	3.55	35.48	Low
ethanol	-0.35	-	Low
Toluene	2.73	8.32	Low
propylidynetrimethanol	-0.47	-	Low

D. Mobility in soil

Soil/water partition : Not available. coefficient (K_{oc})

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	Ά		
A. UN number	UN1263	UN1263	UN1	263		
B. UN proper shipping name	PAINT	PAINT	PAI	PAINT		
C. Transport hazard class(es)	3	3	3	3		
D. Packing group	III		I			
I		<u> </u>	Korea (GHS)	Page: 13/16		

Section 14. Transport information

Environmental hazards	Yes. The environmentally hazardous substance mark is not required.	Yes.	Yes. The environmentally hazardous substance mark is not required.
E. Marine pollutant substances	Not applicable.	(Solvent naphtha (petroleum), light aromatic)	Not applicable.

Additional information

UN	: None identified.
IMDG	: The marine pollutant mark is not required when transported in sizes of \leq 5 L or \leq 5 kg.
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.

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

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 1				

Exposure Limits of Chemical Substances and Physical Factors

The following components have an OEL: Vylene titanium dioxide 1,2,4-trimethylbenzene ethylbenzene mesitylene 1,2,3-trimethylbenzene cyclohexanone cumene ethanol Toluene titanium dioxide (<10 microns) 9.

Product code 00393184 Product name PPG VIKOTE 56 BASE L(D) Date of issue 8/13/2024 (month/day/year)

Section 15. Regulatory information

ISHA Enforcement Regs Annex 19 (Exposure standards established for harmful factors)	-	The following components are listed: cyclohexanone, toluene
ISHA Enforcement Regs Annex 21 (Harmful factors subject to Work Environment Measurement)	:	The following components are listed: xylene, titanium dioxide, ethyl benzene
ISHA Enforcement Regs Annex 22 (Harmful Factors Subject to Special Health Check- up)	:	The following components are listed: Xylene, Ethyl benzene
Standard of Industrial Safety and Health Annex 12 (Hazardous substances subject to control)	:	The following components are listed: xylene, titanium dioxide, ethyl benzene
Regulation according to	Ch	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)	1	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)	:	None of the components are listed.
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
Wastes regulation	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Regulation according to	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).
	Annex 19 (Exposure standards established for harmful factors) ISHA Enforcement Regs Annex 21 (Harmful factors subject to Work Environment Measurement) ISHA Enforcement Regs Annex 22 (Harmful Factors Subject to Special Health Check- up) Standard of Industrial Safety and Health Annex 12 (Hazardous substances subject to control) <u>Regulation according to 9</u> Article 11 (TRI) Article 18 Prohibited (K- Reach Article 27) Article 19 Subject to authorization (K-Reach Article 25) Article 20 Restricted (K- Reach Article 27) Article 20 Toxic Chemicals (K-Reach Article 20) Korea inventory Article 39 (Accident Precaution Chemicals) Dangerous Materials Safety Management Act	Annex 19 (Exposure standards established for harmful factors)ISHA Enforcement Regs Annex 21 (Harmful factors subject to Work Environment Measurement)ISHA Enforcement Regs:Annex 22 (Harmful Factors Subject to Special Health Check- up)Standard of Industrial Safety and Health Annex 12 (Hazardous substances subject to control)Regulation according to Che Article 11 (TRI)Article 18 Prohibited (K- Reach Article 27)Article 19 Subject to authorization (K-Reach Article 20 Restricted (K- Reach Article 27)Article 20 Toxic Chemicals (K-Reach Article 39 (Accident Precaution Chemicals) Dangerous Materials Safety Management ActWastes regulation safety, health and environmental regulations specific for

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	: 8/1/2019	
C.	Date of issue/Date of revision	: 8/13/2024	
D.	Version	: 7	
	Prepared by	: EHS	

E. Other

V 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.