## **SAFETY DATA SHEET**



Date of issue 12/4/2023 (month/day/year)

Version 6.01

### 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

**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 : FLAMMABLE LIQUIDS - Category 3

SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2

TOXIC TO REPRODUCTION - Effects on or via lactation

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -

Category 3

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1

AQUATIC HAZARD (ACUTE) - Category 1
AQUATIC HAZARD (LONG-TERM) - Category 1

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

B. GHS label elements, including precautionary statements

Symbol









Signal word : Danger

Korea (GHS) Page: 1/16

**Product name PPG VIKOTE 56 BASE L(D)** 

### Section 2. Hazards identification

**Hazard statements** : H226 - Flammable liquid and vapor.

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H336 - May cause drowsiness or dizziness.

H351 - Suspected of causing cancer.

H362 - May cause harm to breast-fed children.

H372 - Causes damage to organs through prolonged or repeated exposure. (central

nervous system (CNS), kidneys, liver)

H410 - Very toxic to aquatic life with long lasting effects.

#### **Precautionary statements**

**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.

P263 - Avoid contact during pregnancy and while nursing. 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.

: P403 + P233 - Store in a well-ventilated place. Keep container tightly closed. **Storage** 

P403 + P235 - Keep cool.

**Disposal** : P501 - Dispose of contents and container in accordance with all local, regional,

national and international regulations.

not result in classification

C. Other hazards which do : Prolonged or repeated contact may dry skin and cause irritation.

### Section 3. Composition/information on ingredients

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

**CAS** number : Not applicable.

> Korea (GHS) Page: 2/16

Product code 00393184	Date of issue 12/4/2023 (month/day/year)	Version 6.01
Product name PPG VIKOTE 56 BASE I (D)		

## Section 3. Composition/information on ingredients

Chemical name	Common name	Identifiers	%
Kylene	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
chloroalkanes(C=14~17)	C14-C17 CHLORINATED HYDROCARBONS	CAS: 85535-85-9	1 - <5
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
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
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

0		4	ineasures
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.
E.	Notes to physician	:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Specific treatments	:	No specific treatment.
	Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Korea (GHS) Page: 3/16

**Product name PPG VIKOTE 56 BASE L(D)** 

### Section 5. Fire-fighting measures

#### A. Extinguishing media

Suitable extinguishing

media

Unsuitable extinguishing media

: Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

: Do not use water jet.

## B. 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 very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products

: Decomposition products may include the following materials:

carbon oxides

halogenated compounds 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.

## 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

Korea (GHS) Page: 4/16

**Product name PPG VIKOTE 56 BASE L(D)** 

### Section 6. Accidental release measures

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. Avoid contact during pregnancy or while nursing. 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.
- **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
Kylene	Ministry of Employment and Labor (Republic of Korea, 1/2020). [Xylene (all
	isomers)]
	STEL: 150 ppm 15 minutes.
Alta mirror ali a vial a	TWA: 100 ppm 8 hours.
titanium dioxide	Ministry of Employment and Labor (Republic of Korea, 1/2020).
	TWA: 10 mg/m³ 8 hours. Form: total dust with less than 1% of free SiO2
1,2,4-trimethylbenzene	Ministry of Employment and Labor
	(Republic of Korea, 1/2020). [Trimethyl
	benzene (mixed isomers)]
ethylbenzene	TWA: 25 ppm 8 hours.  Ministry of Employment and Labor
etrybenzene	(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 (mixed isomers)]
1.2.2 trimethylbenzene	TWA: 25 ppm 8 hours.
1,2,3-trimethylbenzene	Ministry of Employment and Labor

Korea (GHS) Page: 5/16

**Product name PPG VIKOTE 56 BASE L(D)** 

### Section 8. Exposure controls/personal protection

benzene (mixed isomers)]

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.

Ministry of Employment and Labor (Republic of Korea, 1/2020). Absorbed

(Republic of Korea, 1/2020). [Trimethyl

through skin.

TWA: 50 ppm 8 hours.

Ministry of Employment and Labor (Republic of Korea, 1/2020).

TWA: 1000 ppm 8 hours.

Ministry of Employment and Labor (Republic of Korea, 1/2020).

TWA: 10 mg/m³ 8 hours. Form: total dust with less than 1% of free SiO2

titanium dioxide (<10 microns)

## Recommended monitoring procedures

cumene

ethanol

Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

## B. Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

## **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.

#### C. Personal protective equipment

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 Hand protection

- : Chemical splash goggles.
- : 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.

Korea (GHS) Page: 6/16

Date of issue 12/4/2023 (month/day/year) Product code 00393184 Version 6.01

**Product name PPG VIKOTE 56 BASE L(D)** 

### Section 8. Exposure controls/personal protection

May be used: nitrile rubber

Recommended: polyvinyl alcohol (PVA), Viton®

: Personal protective equipment for the body should be selected based on the task **Body protection** 

> 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.

: For prolonged or repeated handling, use the following type of gloves:

Wash hands, forearms and face thoroughly after handling chemical products, before **Hygiene measures** 

> 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.

A. Appearance

**Gloves** 

**Physical state** : Liquid.

Color : Not available. B. Odor : Aromatic. C. Odor threshold : Not available. D. pH : Not applicable. E. Melting/freezing point : Not available.

range

F. Boiling point/boiling : >37.78°C (>100°F)

: Closed cup: 32°C (89.6°F) G. Flash point

: Not available. H. Evaporation rate Flammability (solid, gas) : Not available.

J. Lower and upper explosive (flammable)

limits

: Greatest known range: Lower: 1.4% Upper: 7.6% (Solvent naphtha (petroleum),

light aromatic)

K. Vapor pressure

	Vapor Pressure at 20°C			Vapor pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
ethylbenzene	9.30076	1.2				

Media Result L. Solubility(ies) cold water Not soluble

Solubility in water : Not available. Vapor density : Not available.

**Relative density** 1.11

Partition coefficient: n-

: Not applicable.

octanol/water

Korea (GHS) Page: 7/16

**Product name PPG VIKOTE 56 BASE L(D)** 

### Section 9. Physical and chemical properties

**Auto-ignition** temperature

Ingredient name	°C	°F	Method
Solvent naphtha (petroleum), light aromatic	280 to 470	536 to 878	

**Decomposition** 

temperature

S.

: Not available.

: Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt) **Viscosity** 

Flow time (ISO 2431) : Not available. : Not applicable. Molecular weight

### Section 10. Stability and reactivity

A. Chemical stability

: The product is stable.

**Possibility of hazardous** 

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

B. 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 halogenated compounds metal oxide/oxides

### Section 11. Toxicological information

A. Information on the likely routes of exposure

: Not available.

#### Potential acute health effects

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/symptoms

Inhalation

: Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations

> Korea (GHS) Page: 8/16

**Product name PPG VIKOTE 56 BASE L(D)** 

### **Section 11. Toxicological information**

**Ingestion**: Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

**Skin contact** : Adverse symptoms may include the following:

irritation redness dryness cracking

reduced fetal weight increase in fetal deaths skeletal malformations

**Eye contact** : Adverse symptoms may include the following:

pain or irritation watering redness

## B. Health hazards Acute toxicity

Product/ingredient name Result		<b>Species</b>	Dose	Exposure
Kylene	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	_
Solvent naphtha (petroleum), light aromatic	LD50 Dermal	Rabbit	3.48 g/kg	-
aromatio	LD50 Oral	Rat	8400 mg/kg	_
1,2,4-trimethylbenzene	LC50 Inhalation Vapor	Rat	18000 mg/m <sup>3</sup>	4 hours
1,2,4 umoutybenzene	LD50 Oral	Rat	5 g/kg	-
chloroalkanes(C=14~17)	LC50 Inhalation Vapor	Rat	>48.17 g/m <sup>3</sup>	1 hours
$C = 14 \sim 17$	LD50 Oral	Rat	>5 g/kg	1 110015
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
etryiberizerie	LD50 Dermal	Rabbit	17.8 g/kg	- 110013
	LD50 Oral	Rat	3.5 g/kg	
mesitylene	LC50 Inhalation Vapor	Rat	24000 mg/m <sup>3</sup>	4 hours
Intesitylene	LD50 Oral	Rat	5000 mg/kg	- 110013
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
Cycloric Adrioric	LD50 Dermal	Rabbit	1100 mg/kg	- 110013
	LD50 Oral	Rat	1800 mg/kg	
cumene	LC50 Inhalation Vapor	Rat	39000 mg/m <sup>3</sup>	4 hours
Cameric	LD50 Dermal	Rabbit	12.3 g/kg	- 110013
	LD50 Oral	Rat	2260 mg/kg	_
ethanol	LC50 Inhalation Vapor	Rat	124700 mg/m <sup>3</sup>	4 hours
Ctilation	LD50 Dermal	Rat	17100 mg/kg	- 110013
	LD50 Oral	Rat	7 g/kg	_
titanium dioxide (<10 microns)	LC50 Inhalation Dusts and	Rat	>6.82 mg/l	4 hours
attainan alouad ( To iniciono)	mists		0.02 mg/i	1 110010
	LD50 Dermal	Rabbit	>5000 mg/kg	_
	LD50 Oral	Rat	>5000 mg/kg	
propylidynetrimethanol	LD50 Oral	Rabbit	10 g/kg	-  -
propylicyrieumiemanoi	LDOODellia	livappir	i io g/kg	_

Korea (GHS) Page: 9/16

Product code 00393184 Date of issue 12/4/2023 (month/day/year) Version 6.01
Product name PPG VIKOTE 56 BASE L(D)

### **Section 11. Toxicological information**

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
<b>X</b> 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** 

Skin : There are no data available on the mixture itself.

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

**Mutagenicity** 

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

**Carcinogenicity** 

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

**Reproductive toxicity** 

**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
Xylene	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

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

Korea (GHS) Page: 10/16

Product code 00393184	Date of issue 12/4/2023 (month/day/year)	Version 6.01
Product name PPG VIKOTE 56 BASE L(D)		

### **Section 11. Toxicological information**

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

#### **Aspiration hazard**

Name	Result
Solvent naphtha (petroleum), light aromatic ethylbenzene propylbenzene	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 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**: May cause harm to breast-fed children.

#### **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
Vylene titanium dioxide	CAS: 1330-20-7  CAS: 13463-67-7	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 CARCINOGENICITY - Category 2
Solvent naphtha (petroleum), light aromatic	CAS: 64742-95-6	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

Korea (GHS) Page: 11/16

Product code 00393184	Date of issue 12/4/2023 (month/day/year)	Version 6.01
Product name DDG VIKOTE 56 BASE I (D)		

## Section 11. Toxicological information

chloroalkanes(C=14~17)	CAS: 85535-85-9	AQUATIC HAZARD (LONG-TERM) - Category 2 TOXIC TO REPRODUCTION - Effects on or via lactation
ethylbenzene	CAS: 100-41-4	AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 2
mesitylene	CAS: 108-67-8	ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 3 FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) -
propylbenzene	CAS: 103-65-1	Category 3 AQUATIC HAZARD (LONG-TERM) - Category 2 FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) -
1,2,3-trimethylbenzene	CAS: 526-73-8	Category 3  ASPIRATION HAZARD - Category 1  AQUATIC HAZARD (LONG-TERM) - Category 2  FLAMMABLE LIQUIDS - Category 3
cyclohexanone	CAS: 108-94-1	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A 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
cumene	CAS: 98-82-8	EXPOSURE) (Respiratory tract irritation) - Category 3 FLAMMABLE LIQUIDS - Category 3 CARCINOGENICITY - Category 2
ethanol	CAS: 64-17-5	FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2
titanium dioxide (<10 microns) propylidynetrimethanol	CAS: 13463-67-7 CAS: 77-99-6	CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION - Category 2

## Section 12. Ecological information

### A. **Ecotoxicity**

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

Korea (GHS) Page: 12/16

Date of issue 12/4/2023 (month/day/year)

Product code 00393184

**Product name PPG VIKOTE 56 BASE L(D)** 

Version 6.01

### **Section 12. Ecological information**

#### B. Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
<b>e</b> thylbenzene	-	79 % - Rea	adily - 10 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
▼ylene ethylbenzene ethanol	- - -		-		Readily Readily Readily	

#### C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
	3.12	7.4 to 18.5	Low
1,2,4-trimethylbenzene	3.63	120.23	Low
chloroalkanes(C=14~17)	4.7 to 8.3	-	High
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
propylidynetrimethanol	-0.47	-	Low

#### D. Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

#### E. Other adverse effects

: 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.

Korea (GHS) Page: 13/16

Product code 00393184 Date of issue 12/4/2023 (month/day/year) Version 6.01
Product name PPG VIKOTE 56 BASE L(D)

### **Section 14. Transport information**

	UN	IMDG	IATA
A. UN number	UN1263	UN1263	UN1263
B. UN proper shipping name	PAINT	PAINT	PAINT
C. Transport hazard class(es)	3	3	3
D. Packing group	III	III	III
Environmental hazards	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 ≤5 L or ≤5 kg.

**IATA** : 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**

#### A. Regulation according to ISHA

ISHA article 117 (Harmful substances prohibited from manufacture) : None of the components are listed.

ISHA article 118 (Harmful substances requiring permission) : None of the components are listed.

Article 2 of Youth Protection Act on Substances Hazardous to Youth : It is not allowed to sell to persons under the age of 19.

#### **Exposure Limits of Chemical Substances and Physical Factors**

The following components have an OEL:

Korea (GHS) Page: 14/16

**Product name PPG VIKOTE 56 BASE L(D)** 

### **Section 15. Regulatory information**

Xylene

titanium dioxide

1,2,4-trimethylbenzene

ethylbenzene

mesitylene

1,2,3-trimethylbenzene

cyclohexanone

cumene ethanol

titanium dioxide (<10 microns)

ISHA Enforcement Regs

**Annex 19 (Exposure** 

standards established

for harmful factors)

**ISHA Enforcement Regs** 

Annex 21 (Harmful factors subject to Work

**Environment** Measurement)

ISHA Enforcement Regs : The following components are listed: Xylene, Ethyl benzene

**Annex 22 (Harmful Factors Subject to Special Health Check-**

up)

Standard of Industrial

**Safety and Health Annex 12 (Hazardous** substances subject to

control)

: The following components are listed: cyclohexanone

: The following components are listed: xylene, titanium dioxide, ethyl benzene

: The following components are listed: xylene, titanium dioxide, ethyl benzene

B. Regulation according to Chemicals Control Act

Article 11 (TRI) : The following components are listed: Xylene including o-,m-,p- isomer, Ethylbenzene

Article 18 Prohibited (K-

Reach Article 27)

**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

C. Dangerous Materials

: All components are listed or exempted.

**Article 39 (Accident Precaution Chemicals**)

**Safety Management Act** 

: Class: Class 4 - Flammable Liquid

: None of the components are listed.

: None of the components are listed.

: None of the components are listed.

Item: 4. Class 2 petroleums - Water-insoluble liquid

Threshold: 1000 L Danger category: III

: Toxic

Signal word: Contact with sources of ignition prohibited

Korea (GHS) Page: 15/16

: The following components are listed: chloroalkanes( $C=14\sim17$ )

**Product name PPG VIKOTE 56 BASE L(D)** 

### **Section 15. Regulatory information**

D. <u>Wastes regulation</u>: Dispose of contents and container in accordance with all local, regional, national and international regulations.

E. Regulation according to other foreign laws

Safety, health and environmental regulations specific for

the product

: No known specific national and/or regional regulations applicable to this product (including its ingredients).

### **Section 16. Other information**

A. 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.

B. Date of issue/Date of

revision

: 12/4/2023

C. Version : 6.01
Prepared by : EHS

D. Other

**▼** Indicates information that has changed from previously issued version.

#### **Disclaimer**

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.

Korea (GHS) Page: 16/16