SAFETY DATA SHEET



Date of issue 12/21/2023 (month/day/year)

Version 1

Section 1. Chemical product and company identification

A. Product name : PPG VIKOTE 56 BLUE 1199

Product code : 00475160

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

ACUTE TOXICITY (inhalation) - Category 4

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

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Product name PPG VIKOTE 56 BLUE 1199

Section 2. Hazards identification

Hazard statements : H226 - Flammable liquid and vapor.

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H332 - Harmful if inhaled.

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 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.

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	%
Solvent naphtha (petroleum), light aromatic Xylene 1,2,4-trimethylbenzene ethylbenzene Paraffin waxes and Hydrocarbon waxes, chloro	SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC XYLENES 1,2,4-TRIMETHYL BENZENE ETHYLBENZENE PARAFFIN WAXES AND HYDROCARBON WAXES; CHLORINATED	CAS: 64742-95-6 CAS: 1330-20-7 CAS: 95-63-6 CAS: 100-41-4 CAS: 63449-39-8	20 - <30 10 -<20 5 - <10 1 - <5 1 - <5

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Product code 00475160 Date of issue 12/21/2023 (month/day/year) Version 1 Product name PPG VIKOTE 56 BLUE 1199						
Section 3. Composition/i	nformation on ingredi	ents				
titanium dioxide	TITANIUM DIOXIDE	CAS: 13463-67-7	1 - <5			
29H,31H-phthalocyaninato(2-)-N29,N30, N31,N32 copper	COPPER PHTALOCYANINE	CAS: 147-14-8	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			
ethanol	ETHYL ALCOHOL	CAS: 64-17-5	0.1 - <1			
cumene	CUMENE	CAS: 98-82-8	0.1 - <1			
cyclohexanone	cyclohexanone	CAS: 108-94-1	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

3	ection 4. First aid	<i>I</i>	ileasures
A.	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.
Ε.	Notes to physician	:	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	Specific treatments	:	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

See toxicological information (Section 11)

Section 5. Fire-fighting measures

A. Extinguishing media

media

Suitable extinguishing: Use dry chemical, CO₂, water spray (fog) or foam.

providing aid to give mouth-to-mouth resuscitation.

Unsuitable extinguishing media : Do not use water jet.

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Section 5. Fire-fighting measures

from the chemical

B. Specific hazards arising: 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.

Hazardous thermal decomposition products : Decomposition products may include the following materials:

carbon oxides nitrogen oxides

halogenated compounds

carbonyl halides 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 noncombustible, 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.

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Section 7. Handling and storage

A. Precautions for safe handling

Product code 00475160

- : 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.
- 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 (all
	isomers)] STEL: 150 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
1,2,4-trimethylbenzene	Ministry of Employment and Labor
	(Republic of Korea, 1/2020). [Trimethyl
	benzene (mixed isomers)]
	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.
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
mesitylene	Ministry of Employment and Labor
	(Republic of Korea, 1/2020). [Trimethyl
	benzene (mixed isomers)]
	TWA: 25 ppm 8 hours.
1,2,3-trimethylbenzene	Ministry of Employment and Labor
	(Republic of Korea, 1/2020). [Trimethyl
	benzene (mixed isomers)]
	TWA: 25 ppm 8 hours.
ethanol	Ministry of Employment and Labor

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Section 8. Exposure controls/personal protection

(Republic of Korea, 1/2020).
TWA: 1000 ppm 8 hours.

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

through skin.

TWA: 50 ppm 8 hours.

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

through skin.

TWA: 25 ppm 8 hours. STEL: 50 ppm 15 minutes.

Recommended monitoring procedures

cyclohexanone

: 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.

Gloves

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

May be used: nitrile rubber

Recommended: 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.

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Section 8. Exposure controls/personal protection

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.

A. Appearance

Physical state : Liquid.
Color : Blue.

B. Odor : Aromatic.
C. Odor threshold : Not available.
D. pH : Not applicable.
E. Melting/freezing point : Not available.
F. Boiling point/boiling : >37.78°C (>100°F)

range

G. Flash point : Closed cup: 39.6°C (103.3°F)

H. Evaporation rate : Not available.I. 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				

L. Solubility(ies)

MediaResultcold waterNot soluble

Solubility in water : Not available.

Vapor density : Not available.

Relative density : 0.99

Partition coefficient: n-

octanol/water

: Not applicable.

Auto-ignition

temperature

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

O. Decomposition

u. temperature

: Not available.

aromatic

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

Flow time (ISO 2431) : Not available.

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Section 9. Physical and chemical properties

Molecular weight : Not applicable.

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 : Depending on conditions, decomposition products may include the following

materials: carbon oxides nitrogen oxides halogenated compounds carbonyl

halides metal oxide/oxides

Section 11. Toxicological information

A. Information on the likely : Not available.
 routes of exposure

Potential acute health effects

decomposition products

Inhalation : Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause

drowsiness or dizziness.

Ingestion: Can cause central nervous system (CNS) depression.

Skin contact: 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 : 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

Ingestion

Acute toxicity

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Product name PPG VIKOTE 56 BLUE 1199

Section 11. Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
Solvent naphtha (petroleum), light aromatic	LD50 Dermal	Rabbit	3.48 g/kg	-
aromatic	LD50 Oral	Rat	8400 mg/kg	_
Xylene	LD50 Dermal	Rabbit	1.7 g/kg	_
- Kylono	LD50 Oral	Rat	4.3 g/kg	_
1,2,4-trimethylbenzene	LC50 Inhalation Vapor	Rat	18000 mg/m ³	4 hours
1,2,1 41111041111001120110	LD50 Oral	Rat	5 g/kg	_
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
Caryidenzene	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	_
Paraffin waxes and Hydrocarbon waxes,		Rat	26100 mg/kg	_
chloro	LD30 Olai	Ital	20100 mg/kg	
titanium dioxide	LC50 Inhalation Dusts and	Rat	>6.82 mg/l	4 hours
titaliani dioxido	mists	T COL	0.02 1119/1	Tilouio
	LD50 Dermal	Rabbit	>5000 mg/kg	_
	LD50 Oral	Rat	>5000 mg/kg	_
29H,31H-phthalocyaninato(2-)-N29,	LD50 Dermal	Rat	>5000 mg/kg	_
N30,N31,N32 copper	EBOO Berman	rtat	- 0000 mg/kg	
1100,1101,1102 copper	LD50 Oral	Rat	5.1 g/kg	_
mesitylene	LC50 Inhalation Vapor	Rat	24000 mg/m ³	4 hours
meditylene	LD50 Oral	Rat	5000 mg/kg	-
propylbenzene	LD50 Oral	Rat	6040 mg/kg	_
1,2,3-trimethylbenzene	LD50 Oral	Rat	11.4 g/kg	_
ethanol	LC50 Inhalation Vapor	Rat	124700 mg/m ³	4 hours
Ctriarior	LD50 Dermal	Rat	17100 mg/kg	- Hours
	LD50 Oral	Rat	7 g/kg	
cumene	LC50 Inhalation Vapor	Rat	39000 mg/m ³	4 hours
Carrierie	LD50 Dermal	Rabbit	12.3 g/kg	T Hours
	LD50 Oral	Rat	2260 mg/kg	
cyclohexanone	LC50 Inhalation Gas.	Rat	8000 ppm	4 hours
Gydionexanone	LD50 Dermal	Rabbit	1100 mg/kg	- Hours
	LD50 Oral	Rat	1800 mg/kg	_
	LDJU Olai	ixal	1000 mg/kg	_

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

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Xylene	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.

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Product name PPG VIKOTE 56 BLUE 1199

Section 11. Toxicological information

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
Solvent naphtha (petroleum), light aromatic	Category 3	-	Narcotic effects
Xylene	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)

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	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
propylbenzene	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. Sanding and grinding dusts may be harmful if inhaled. 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
Solvent naphtha (petroleum), light aromatic	CAS: 64742-95-6	FLAMMABLE LIQUIDS - Category 3
Xylene	CAS: 1330-20-7	SKIN IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2 FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A
1,2,4-trimethylbenzene	CAS: 95-63-6	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE
ethylbenzene Paraffin waxes and Hydrocarbon waxes,	CAS: 100-41-4 CAS: 63449-39-8	EXPOSURE) (Respiratory tract irritation) - Category 3 AQUATIC HAZARD (LONG-TERM) - Category 2 FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 2 ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 3 AQUATIC HAZARD (LONG-TERM) - Category 4
chloro titanium dioxide	CAS: 13463-67-7	CARCINOGENICITY - Category 2
29H,31H-phthalocyaninato(2-)-N29,N30, N31,N32 copper	CAS: 13403-07-7 CAS: 147-14-8	Not classified.
mesitylene	CAS: 108-67-8	FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
propylbenzene	CAS: 103-65-1	AQUATIC HAZARD (LONG-TERM) - Category 2 FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
1,2,3-trimethylbenzene	CAS: 526-73-8	ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2 FLAMMABLE LIQUIDS - Category 3 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A
ethanol	CAS: 64-17-5	FLAMMABLE LIQUIDS - Category 2

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Section 11. Toxicological information				
		EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2		
cumene	CAS: 98-82-8	FLAMMABLE LIQUIDS - Category 3 CARCINOGENICITY - Category 2		
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		

Section 12. Ecological information

A. **Ecotoxicity**

Product/ingredient name	Result	Species	Exposure
Solvent naphtha (petroleum), light aromatic	Acute LC50 8.2 mg/l	Fish	96 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water Chronic NOEC 1 mg/l Fresh water	Daphnia Daphnia - <i>Ceriodaphnia dubia</i>	48 hours
titanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
29H,31H-phthalocyaninato (2-)-N29,N30,N31,N32	Acute LC50 >100 mg/l	Fish	96 hours
copper ethanol	Acute EC50 7640 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours

B. Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
ethylbenzene	-	79 % - Readily - 10 days		-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
Xylene ethylbenzene	-		-		Readily Readily	

C. Bioaccumulative potential

ethanol

Product/ingredient name	LogPow	BCF	Potential
Xylene	3.12	7.4 to 18.5	Low
1,2,4-trimethylbenzene	3.63	120.23	Low
ethylbenzene	3.6	79.43	Low
Paraffin waxes and	7.46 to 11.48	-	High
Hydrocarbon waxes, chloro			_
29H,31H-phthalocyaninato	6.6	-	High
(2-)-N29,N30,N31,N32			_
copper			
mesitylene	3.42	186.21	Low
propylbenzene	3.69	-	Low
1,2,3-trimethylbenzene	3.66	194.98	Low

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Readily

SPECIFIC TARGET ORGAN TOXICITY (SINGLE

EXPOSURE) (Respiratory tract irritation) -

Category 3

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Section 12. Ecological information						
ethanol cumene	-0.35 3.55	- 35.48	Low Low			
cumene cvclohexanone	3.55 0.86	35.48	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.

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.

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Section 14. Transport information

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 : None of the components are listed.

(Harmful substances prohibited from manufacture)

ISHA article 118 : None of the components are listed.

(Harmful substances requiring permission)

Article 2 of Youth Protection
Act on Substances Hazardous

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:

Xylene

1,2,4-trimethylbenzene

ethylbenzene

titanium dioxide

mesitylene

1,2,3-trimethylbenzene

ethanol cumene cyclohexanone

ISHA Enforcement Regs : The following components are listed: cyclohexanone

Annex 19 (Exposure standards established for harmful factors)

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

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)

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Section 15. Regulatory information

Standard of Industrial **Safety and Health Annex 12 (Hazardous** substances subject to control)

: The following components are listed: xylene, ethyl benzene, titanium dioxide, copper and its compounds

B. Regulation according to Chemicals Control Act

Article 11 (TRI)

: The following components are listed: Xylene including o-,m-,p- isomer,

Ethylbenzene, Copper and its compounds

Article 18 Prohibited (K-

Reach Article 27)

Article 19 Subject to authorization (K-Reach

Article 25)

: None of the components are listed. : 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 Article 39 (Accident

: None of the components are listed.

: All components are listed or exempted.

Precaution Chemicals) C. <u>Dangerous Materials</u>

: Class: Class 4 - Flammable Liquid

Safety Management Act

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

Threshold: 1000 L Danger category: |||

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.

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

: 12/21/2023

C. Version : 1 **Prepared by** : EHS

D. Other

Indicates information that has changed from previously issued version.

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Section 16. Other information

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.

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