SAFETY DATA SHEET



Date of issue 6/13/2024 (month/day/year)

Version 16.01

Section 1. Chemical product and company identification

Α.	Product name	1	PPG VIKOTE 56 REDBROWN 6179
	Product code	1	00202318

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

	Product use	:	Professional applications.
	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
	Emergency telephone number:	:	⊮ 82-52-210-8331

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 clossified in (accordence with the Industrial Safety and Health Act and the Chemical Control Act	

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



Date of issue 6/13/2024 (month/day/year)

Product name PPG VIKOTE 56 REDBROWN 6179

Section 2. Hazards identification

F	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.
P	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.
	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.
n	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.

Korea (GHS) Page: 2/16

Section 3. Composition/information on ingredients

		1	
Chemical name	Common name	Identifiers	%
Solvent naphtha (petroleum), light	SOLVENT NAPHTHA (PETROLEUM),	CAS: 64742-95-6	20 -
aromatic	LIGHT AROMATIC		<30
Xylene	XYLENES	CAS: 1330-20-7	10 -<20
1,2,4-trimethylbenzene	1,2,4-TRIMETHYL BENZENE	CAS: 95-63-6	10 -<20
diiron trioxide	Diiron trioxide	CAS: 1309-37-1	5 - <10
chloroalkanes(C= $14 \sim 17$)	C14-C17 CHLORINATED	CAS: 85535-85-9	1 - <5
	HYDROCARBONS		
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
cumene	CUMENE	CAS: 98-82-8	0.1 - <1
ethanol	ETHYL ALCOHOL	CAS: 64-17-5	0.1 - <1
cyclohexanone	cyclohexanone	CAS: 108-94-1	0.1 - <1
Toluene	TOLUENE	CAS: 108-88-3	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)

Date of issue 6/13/2024 (month/day/year)

Product name PPG VIKOTE 56 REDBROWN 6179

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 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 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 emergency contact information and Section 13 for waste disposal.

Korea (GHS) Page: 4/16

Date of issue 6/13/2024 (month/day/year)

Product name PPG VIKOTE 56 REDBROWN 6179

Section 7. Handling and storage

Α.	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
Xylene	Ministry of Employment and Labor
	(Republic of Korea, 1/2020). [Xylene]
	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]
	TWA: 25 ppm 8 hours.
diiron trioxide	Ministry of Employment and Labor
	(Republic of Korea, 1/2020). [Iron oxide
	TWA: 5 mg/m³, (as Fe) 8 hours. Form:
	Fume
	TWA: 5 mg/m³, (as Fe) 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.
	Korea (GHS) Page: 5/

Section 8. Exposure controls/personal protection

	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).
	cyclohexanone		TWA: 1000 ppm 8 hours. Ministry of Employment and Labor (Republic of Korea, 1/2020). Absorbed
	Toluene		through skin. TWA: 25 ppm 8 hours. STEL: 50 ppm 15 minutes. Ministry of Employment and Labor (Republic of Korea, 1/2020). STEL: 150 ppm 15 minutes. TWA: 50 ppm 8 hours.
	Recommended monitoring procedures	: Reference should be made to appropria national guidance documents for metho substances will also be required.	
В.	Appropriate engineering controls	: Use only with adequate ventilation. Use ventilation or other engineering controls contaminants below any recommended also need to keep gas, vapor or dust co limits. Use explosion-proof ventilation e	to keep worker exposure to airborne or statutory limits. The engineering controls oncentrations below any lower explosive
	Environmental exposure controls		

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. Chemical splash goggles.
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Gloves	: For prolonged or repeated handling, use the following type of gloves:
	May be used: nitrile rubber Recommended: polyvinyl alcohol (PVA), Viton®

Product name PPG VIKOTE 56 REDBROWN 6179

Section 8. Exposure controls/personal protection

Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Α.	Appearance								
	Physical state	÷	Liquid.						
	Color	4	Brownish-red.						
В.	Odor	4	Aromatic.	romatic.					
С.	Odor threshold	1	Not available.	ot available.					
D.	рН	1	lot applicable.						
Ε.	Melting/freezing point	1	Not available.						
F.	Boiling point/boiling range	:	>37.78°C (>100°F)						
G.	Flash point	1	Closed cup: 34.4°C ((93.9°F)					
Н.	Evaporation rate	1	Not available.						
Т.	Flammability (solid, gas)	:	Not available.						
		а.	Greatest known rang	e: Lower:	1.4% เ	Upper: 7.6% (Solvent r	naphtha (petroleum),
 J.	Lower and upper explosive (flammable) limits	1	light aromatic)	,					
J.	explosive (flammable)	:		, 1		ure at 20°C	Vaj	oor press	sure at 50°C
J.	explosive (flammable) limits	:		, 1		ure at 20°C Method	Vaj mm Hg	oor press kPa	sure at 50°C Method
J.	explosive (flammable) limits	:	light aromatic)	Vapo	r Press	1	mm		1
J. K.	explosive (flammable) limits Vapor pressure	:	light aromatic)	Vapo mm Hg 9.30076	r Press kPa	1	mm		1
J. K.	explosive (flammable) limits	:	light aromatic)	Vapor mm Hg 9.30076 Re	r Press kPa 1.2	Method	mm		1
J. K.	explosive (flammable) limits Vapor pressure	:	light aromatic) Ingredient name thylbenzene Media	Vapor mm Hg 9.30076 Re	r Press kPa 1.2 sult	Method	mm		1
J. K. L.	explosive (flammable) limits Vapor pressure Solubility(ies)	: : :	light aromatic) Ingredient name Ingredient nam	Vapor mm Hg 9.30076 Re	r Press kPa 1.2 sult	Method	mm		1
J. K. L.	explosive (flammable) limits Vapor pressure Solubility(ies) Solubility in water	: : : : : : :	light aromatic) Ingredient name Ingredient name Ingredient name Ingredient name Ingredient name Ingredient name Not available.	Vapor mm Hg 9.30076 Re	r Press kPa 1.2 sult	Method	mm		1
J. K. L.	explosive (flammable) limits Vapor pressure Solubility(ies) Solubility in water Vapor density	: : : : : : : : : : : : : : : : : : : :	light aromatic) Ingredient name Not available. Not available. Not available.	Vapor mm Hg 9.30076 Re	r Press kPa 1.2 sult	Method	mm		1

Date of issue 6/13/2024 (month/day/year)

Product name PPG VIKOTE 56 REDBROWN 6179

Section 9. Physical and chemical properties

		Ingredient name	°C	°F	Method
		Solvent naphtha (petroleum), light aromatic	280 to 470	536 to 878	
Q.	Decomposition : temperature	Not available.			
R.	Viscosity :	Kinematic (40°C (104°F)): >21 n	nm²/s (>21 د	St)	
к.	Flow time (ISO 2431) :	Not available.			
s.	Molecular weight :	Not applicable.			

Section 10. Stability and reactivity

Α.	Chemical stability	:	The product is stable.
	Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
В.	Conditions to avoid	:	When exposed to high temperatures may produce hazardous decomposition products.
C.	Incompatible materials	:	Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
D.	Hazardous decomposition products	:	Depending on conditions, decomposition products may include the following materials: carbon oxides metal oxide/oxides

Section 11. Toxicological information

Α.	Information on the likely routes of exposure	y : Not available.
P	otential 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.
<u>0</u>	<u>ver-exposure signs/sym</u>	<u>ptoms</u>
	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
	Ingestion :	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations

Section 11. Toxicological information

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	Species	Dose	Exposure
Solvent naphtha (petroleum), light	LD50 Dermal	Rabbit	3.48 g/kg	-
aromatic				
	LD50 Oral	Rat	8400 mg/kg	-
Xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
1,2,4-trimethylbenzene	LC50 Inhalation Vapor	Rat	18000 mg/m ³	4 hours
	LD50 Oral	Rat	5 g/kg	-
diiron trioxide	LC50 Inhalation Dusts and	Rat	>5 mg/l	4 hours
	mists		-	
	LD50 Oral	Rat	10 g/kg	-
chloroalkanes(C= $14 \sim 17$)	LC50 Inhalation Vapor	Rat	>48.17 g/m ³	1 hours
(0 11 11)	LD50 Oral	Rat	>5 g/kg	-
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
2	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	-
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	-
cyclohexanone	LC50 Inhalation Gas.	Rat	8000 ppm	4 hours
,	LD50 Dermal	Rabbit	1100 mg/kg	_
	LD50 Oral	Rat	1800 mg/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	_

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

Irritation/Corrosion

Section 11. Toxicological information

		0				
Product/ingredient name		Result	Species	Score	Exposure	Observation
₩ylene		Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Conclusion/Summary			•			
Skin	: T	here are no data available o	n the mixture it	self.		
Eyes	: T	here are no data available o	n the mixture it	self.		
Respiratory	: Т	here are no data available o	n the mixture it	self.		
<u>Sensitization</u> <u>Conclusion/Summary</u> Skin Respiratory	• • • •	ere are no data available on ere are no data available on				
<u>Mutagenicity</u> Conclusion/Summary	: Th	nere are no data available or	n the mixture its	self.		
Carcinogenicity Conclusion/Summary	: TI	here are no data available o	n the mixture it	self.		
Reproductive toxicity Conclusion/Summary	: Т	here are no data available o	n the mixture it	tself.		
Teratogenicity Conclusion/Summary	: т	here are no data available o	n the mixture it	tself.		

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
Toluene	Category 3	-	Narcotic effects

Specific target organ toxicity (repeated exposure)

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

Aspiration hazard

Korea	(GHS)	Page:	10/16
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Section 11. Toxicological information

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.
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. 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 SPECIFIC TARGET ORGAN TOXICITY (SINGLE
1,2,4-trimethylbenzene	CAS: 95-63-6	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 EXPOSURE) (Respiratory tract irritation) -
diiron trioxide chloroalkanes(C=14~17) ethylbenzene	CAS: 1309-37-1 CAS: 85535-85-9 CAS: 100-41-4	Category 3 AQUATIC HAZARD (LONG-TERM) - Category 2 Not classified. TOXIC TO REPRODUCTION - Effects on or via lactation AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 FLAMMABLE LIQUIDS - Category 2
		Korea (GHS) Page: 11/16

Section 11. Toxicological information

		ACUTE TOXICITY (inhalation) - Category 4
		CARCINOGENICITY - Category 2
		ASPIRATION HAZARD - Category 1
and a state of a second s	040,400,07.0	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
1,2,3-trimethylbenzene	CAS: 526-73-8	FLAMMABLE LIQUIDS - Category 3
		SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
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
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
Toluene	CAS: 108-88-3	FLAMMABLE LIQUIDS - Category 2
Toluene	CAS. 100-00-3	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
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Section 12. Ecological information

A. <u>Ecotoxicity</u>

Product/ingredient name	Result	Species	Exposure
Solvent naphtha (petroleum), light aromatic	Acute LC50 8.2 mg/l	Fish	96 hours
diiron trioxide	Acute EC50 >100 mg/l	Daphnia	48 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
-	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
ethanol	Acute EC50 7640 mg/l Fresh water	Daphnia - Daphnia magna	48 hours

Korea (GHS) Page: 12/16

Section 12. Ecological information

B. Persistence and degradability

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

C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Xylene	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
cumene	3.55	35.48	Low
ethanol	-0.35	-	Low
cyclohexanone	0.86	-	Low
Toluene	2.73	8.32	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	ΙΑΤΑ
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
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

ΙΑΤΑ

UN	: None identified.	
IMDG	: The marine poll	

- : The marine pollutant mark is not required when transported in sizes of \leq 5 L or \leq 5 kg.
- : 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			

Exposure Limits of Chemical Substances and Physical Factors

The following components have an OEL:

19.

Section 15. Regulatory information

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	Vene 1,2,4-trimethylbenzene diiron trioxide ethylbenzene mesitylene 1,2,3-trimethylbenzene cumene ethanol cyclohexanone Toluene		
	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, iron oxide, ethyl benzene
	ISHA Enforcement Regs Annex 22 (Harmful Factors Subject to Special Health Check- up)	:	The following components are listed: Xylene, Iron oxide (dust, fume), Ethyl benzene
	Standard of Industrial Safety and Health Annex 12 (Hazardous substances subject to control)	•	The following components are listed: xylene, iron and its compounds, ethyl benzene
В.	Regulation according to (Che	emicals Control Act
	Article 11 (TRI)	:	The following components are listed: Xylene including o-,m-,p- isomer, Ethylbenzene
	Article 18 Prohibited (K- Reach Article 27)	:	None of the components are listed.
	Article 19 Subject to authorization (K-Reach Article 25)	:	None of the components are listed.
	Article 20 Restricted (K- Reach Article 27)	:	None of the components are listed.
	Article 20 Toxic Chemicals (K-Reach Article 20)	:	Toxic
	Korea inventory	:	All components are listed or exempted.
	Article 39 (Accident Precaution Chemicals)	:	The following components are listed: chloroalkanes(C=14 \sim 17)
C.	Dangerous Materials Safety Management Act	:	Class: Class 4 - Flammable Liquid Item: 4. Class 2 petroleums - Water-insoluble liquid Threshold: 1000 L Danger category: III Signal word: Contact with sources of ignition prohibited

Korea (GHS) Page: 15/16

Date of issue 6/13/2024 (month/day/year)

Product name PPG VIKOTE 56 REDBROWN 6179

Section '	15. Regu	latory in	formation
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D. <u>Wastes regulation</u> : Dispo

: Dispose of contents and container in accordance with all local, regional, national and international regulations.

: No known specific national and/or regional regulations applicable to this product

E. <u>Regulation according to other foreign laws</u>

Safety, health and environmental regulations specific for the product

Section 16. Other information

ty Information

(including its ingredients).

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.