SAFETY DATA SHEET



Date of issue 11/25/2024 (month/day/year)

Version 3.03

Section 1. Chemical product and company identification

Α.	Product name Product code	: SIGMADUR 550 Y BASE RAL 1023 : 00427147	
В.	Relevant identified uses	f 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:	:	<mark>⊁</mark> 82-52-210-8331

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 1A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 AQUATIC HAZARD (LONG-TERM) - Category 3 This product is classified in accordance with the Industrial Safety and Health Act and the Chemical Control Act
	the Chemical Control Act.

B. GHS label elements, including precautionary statements



Signal word

Symbol

: Danger

Date of issue ^{11/25/2024} (month/day/year)

Product name SIGMADUR 550 Y BASE RAL 1023

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. H350 - May cause dowsiness or dizziness. H373 - May cause cancer. H373 - May cause damage to organs through prolonged or repeated exposure. (central nervous system (CNS), kidneys, liver) H412 - Harmful to aquatic life with long lasting effects.
Precautionary statemen	S
Prevention	 P202 - Do not handle until all safety precautions have been read and understood. P280 - Wear protective gloves, protective clothing and eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P241 - Use explosion-proof electrical, ventilating or lighting equipment. P241 - Use explosion-proof electrical, ventilating or lighting equipment. P242 - Use non-sparking tools. P243 - Take action to prevent static discharges. P240 - Ground and bond container and receiving equipment. P273 - Avoid release to the environment. P260 - Do not breathe vapor.
Response	 P264 - Wash thoroughly after handling. P370 + P378 - In case of fire: Never use water to extinguish. 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. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. 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. P321 - Specific treatment (see the label).
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.

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Section 3. Composition/information on ingredients

Chemical name	Common name	Identifiers	%
Solvent naphtha (petroleum), light aromatic	SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC	CAS: 64742-95-6	10 -<20
		EC: 265-199-0	
crystalline silica, respirable powder (>10 microns)	QUARTZ (>10 microns)	CAS: 14808-60-7	10 -<20
,		EC: 238-878-4	
Xylene	XYLENES	CAS: 1330-20-7	5 - <10
		EC: 215-535-7	
1,2,4-trimethylbenzene	1,2,4-TRIMETHYL BENZENE	CAS: 95-63-6	1 - <5
-		EC: 202-436-9	
titanium dioxide	TITANIUM DIOXIDE	CAS: 13463-67-7	1 - <5
		EC: 236-675-5	
crystalline silica, respirable powder (<10 microns)	QUARTZ (<10 microns)	CAS: 14808-60-7	1 - <5
,		EC: 238-878-4	
3-ethyltoluene	Benzene, 1-ethyl-3-methyl	CAS: 620-14-4	1 - <5
-		EC: 210-626-8	
ethylbenzene	ETHYLBENZENE	CAS: 100-41-4	1 - <5
-		EC: 202-849-4	
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	BIS(PENTAMETHYLPIPERIDYL) SEBACATE	CAS: 41556-26-7	0.1 - <1
		EC: 255-437-1	

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	:	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 providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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Section 4. First aid measures

See toxicological information (Section 11)

S	Section 5. Fire-fighting measures				
Α.	Extinguishing media				
	Suitable extinguishing media	1	Use dry chemical, CO_2 , water spray (fog) or foam.		
	Unsuitable extinguishing media	:	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 harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.		
	Hazardous thermal decomposition products	:	Decomposition products may include the following materials: carbon oxides nitrogen 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 personne entering. Do not touch or walk through spilled material. Shut off all ignition 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.	l from sources.
B. Environmental precautions	Avoid dispersal of spilled material and runoff and contact with soil, waterway drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting ma May be harmful to the environment if released in large quantities.	1
C. Methods and materials for	ntainment and cleaning up	
Small spill	Stop leak if without risk. Move containers from spill area. Use spark-proof t	ools and

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.

Section 6. Accidental release measures

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.

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. 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.
в.	Conditions for safe	: Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in

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
crystalline silica, respirable powder (>10 microns)	ISHA Article 42 (Republic of Korea,
	1/2020)
	TWA 8 hours: 0.05 mg/m ³ . Form:
	Respirable fraction.
Xylene	ISHA Article 42 (Republic of Korea,
	1/2020) [Xylene]
	STEL 15 minutes: 150 ppm.
	TWA 8 hours: 100 ppm.
1,2,4-trimethylbenzene	ISHA Article 42 (Republic of Korea,
	1/2020) [Trimethyl benzene]
	TWA 8 hours: 25 ppm.
titanium dioxide	ISHA Article 42 (Republic of Korea,
	1/2020)
	TWA 8 hours: 10 mg/m ³ .
crystalline silica, respirable powder (<10 microns)	ISHA Article 42 (Republic of Korea,
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Section 8. Exposure controls/personal protection

	ethylbenzene	-	1/2020) TWA 8 hours: 0.05 mg/m ³ . Form: Respirable fraction. ISHA Article 42 (Republic of Korea, 1/2020) STEL 15 minutes: 125 ppm. TWA 8 hours: 100 ppm.
	Recommended monitoring procedures		nade to appropriate monitoring standards. Reference to uments for methods for the determination of hazardous e required.
В.	Appropriate engineering controls	lation or other eng aminants below a need to keep gas	e ventilation. Use process enclosures, local exhaust pineering controls to keep worker exposure to airborne by recommended or statutory limits. The engineering controls vapor or dust concentrations below any lower explosive proof ventilation equipment.
	Environmental exposure controls	comply with the re s, fume scrubbers	tion or work process equipment should be checked to ensure equirements of environmental protection legislation. In some s, filters or engineering modifications to the process essary to reduce emissions to acceptable levels.
С.	Personal protective equip		
	Respiratory protection	ards of the produc kers are exposed ropriate, certified	nust be based on known or anticipated exposure levels, the t and the safe working limits of the selected respirator. If to concentrations above the exposure limit, they must use espirators. Use a properly fitted, air-purifying or air-fed with an approved standard if a risk assessment indicates this is
	Eye protection	mical splash gog	
	Hand protection	vorn at all times w is necessary. Co ck during use that uld be noted that t rrent for different s	pervious gloves complying with an approved standard should hen handling chemical products if a risk assessment indicates hsidering the parameters specified by the glove manufacturer, the gloves are still retaining their protective properties. It he time to breakthrough for any glove material may be love manufacturers. In the case of mixtures, consisting of he protection time of the gloves cannot be accurately
	Body protection	g performed and bre handling this p r anti-static protect	uipment for the body should be selected based on the task the risks involved and should be approved by a specialist roduct. When there is a risk of ignition from static electricity, tive clothing. For the greatest protection from static hould include anti-static overalls, boots and gloves.
	Hygiene measures	sh hands, forearm ng, smoking and u ropriate technique sh contaminated c	s and face thoroughly after handling chemical products, before sing the lavatory and at the end of the working period. s should be used to remove potentially contaminated clothing. lothing before reusing. Ensure that eyewash stations and ose to the workstation location.

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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	: Yellow.
B. Odor	: Aromatic. [Strong]
C. Odor threshold	Not available.
D. pH	: Not applicable.
E. Melting/freezing point	: Not available.
F. Boiling point/boiling range	: >37.78°C (>100°F)
G. Flash point	: Closed cup: 35°C (95°F)
H. Evaporation rate	: Not available.
I. Flammability (solid, gas)	: Not available.
J. Lower and upper explosive (flammable) limits	: Not available.
K. Vapor pressure	:

Vener preserve								
Vapor pressure	1		Vapo	r Pressu	ire at 20°C	Va	Vapor pressure at 5	
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
		et hylbenzene	9.30076	1.2				
Solubilitv(ies)	:	Media	Re	sult				
		cold water Not soluble						
Solubility in water	:	Not available.						
Vapor density	:	Not available.						
Relative density	1	1.14						
Partition coefficient: n- octanol/water	:	Not applicable.						
Auto-ignition temperature	:							
		Ingredient name		°C	°F	I	Method	
				180	356	1	/DI 2263	
Decomposition temperature	:	Not available.				·		
Viscosity	:	Kinematic (room ten	nperature)	: >400 m	1m²/s (>400 c	:St)		
Flow time (ISO 2431)	:	Not available.						
Molecular weight	:	Not applicable.						
	Solubility(ies) Solubility in water Vapor density Relative density Partition coefficient: n- octanol/water Auto-ignition temperature Decomposition temperature Viscosity Flow time (ISO 2431)	Solubility(ies):Solubility in water:Vapor density:Relative density:Partition coefficient: n- octanol/water:Auto-ignition temperature:Decomposition temperature:Viscosity:Flow time (ISO 2431):	Ingredient nameSolubility(ies):Media cold waterSolubility in water:Vapor density:Relative density:Relative density:1.14Partition coefficient: n- octanol/water:Auto-ignition temperature:Ingredient name (2-f(2-methoxy-4-nitrophe (2-methoxyphenyl)-3-oxo)Decomposition temperature:Viscosity:Viscosity:Flow time (ISO 2431):Not available.	Ingredient name mm Hg Ingredient name mm Hg Impredient name mm Hg Impredient name 9.30076 Solubility (ies) : Media Re cold water No Solubility in water : Vapor density : Relative density : Relative density : Relative density : Not available. . Relative density : Not available. . Relative density : Not available. . octanol/water . Auto-ignition : temperature . Decomposition : temperature . Viscosity : Viscosity : Vinematic (room temperature) Kinematic (40°C (104°F)): >21 Flow time (ISO 2431) :	Ingredient name Imm Hg kPa Impredient name Impredient name Impredient name Solubility in water : Not available. Vapor density : Not available. Relative density : 1.14 Partition coefficient: n- : Not applicable. octanol/water : Not applicable. Auto-ignition : : Impredient name °C 2-[(2-methoxy-4-nitrophenyl)azo]-N- 180 (2-methoxy-4-nitrophenyl)azo]-N- 180 Composition : Not available. temperature : Viscosity Viscosity : Impredient (room temperature): Not avail kinematic (room temperature): >400 m Kinematic (40°C (104°F)): >21 mm²/s (room temperature): >400 m Kinematic (40°C (104°F)): >21 mm²/s (room temperature): >400 m Kinematic (40°C (104°F)): >21 mm²/s (room temperature): >400 m Kinematic (40°C (104°F)): >21 mm²/s (room temperature): >400 m Kinematic (40°C (104°F)): >21 mm²/s (room temperature): >400 m Kinematic (40°C (10	Ingredient name Imp kPa Method Improvementation 9.30076 1.2 Solubility(ies) : Media Result Cold water Not soluble Solubility in water : Not available. Vapor density : Not available. Relative density : 1.14 Partition coefficient: n-octanol/water : Not applicable. Auto-ignition : : Imgredient name °C °F 2-[(2-methoxy-4-nitrophenyl)azo]-N-(2-methoxyphenyl)-3-oxobutyramide 180 356 Decomposition : Not available. * Viscosity : Øynamic (room temperature): Not available. Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt) Flow time (ISO 2431) : Not available. *	Ingredient nameImp HgkPaMethodImp HgSolubility(ies):MediaResultCold waterNot solubleSolubility in water:Not available.Vapor density:Not available.Relative density:1.14Partition coefficient: n- octanol/water:Not applicable.Auto-ignition::Ingredient name°C°F2.[(2-methoxy-4-nitrophenyl)azo]-N- (2-methoxyphenyl)-3-oxobutyramide180Decomposition:Not available.temperature:ViscosityViscosity:Øynamic (room temperature): Not available. Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)Flow time (ISO 2431):Not available.	Ingredient name Imm Hg kPa Method mm Hg kPa Solubility(ies) : Media Result

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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 nitrogen oxides metal oxide/oxides

Section 11. Toxicological information

Α.	Information on the likely routes of exposure	y : Not available.
<u>P</u>	otential acute health effe	icts
	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.
<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
	Ingestion :	No specific data.
	Skin contact :	Adverse symptoms may include the following: irritation redness dryness cracking
	Eye contact :	Adverse symptoms may include the following: pain or irritation watering redness
В.	Health hazards	
Ac	ute toxicity	

Section 11. Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
Solvent naphtha (petroleum), light aromatic	LD50 Dermal	Rabbit	3.48 g/kg	-
aronalic	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	-
titanium dioxide	LC50 Inhalation Dusts and	Rat	>6.82 mg/l	4 hours
	mists			
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
-	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	LD50 Oral	Rat	3.125 g/kg	-

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

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation	
₩ylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-	
Conclusion/Summary					•	
Skin :	There are no data available of	on the mixture i	tself.			
Eyes :	There are no data available of	on the mixture i	tself.			
Respiratory :	There are no data available of	on the mixture i	tself.			
	 there are no data available on the mixture itself. there are no data available on the mixture itself. 					
Mutagenicity Conclusion/Summary :	There are no data available o	n the mixture it	self.			
Carcinogenicity Conclusion/Summary :	There are no data available o	on the mixture i	tself.			
Reproductive toxicity Conclusion/Summary :	There are no data available o	on the mixture i	tself.			
Teratogenicity Conclusion/Summary :	There are no data available o	on the mixture i	tself.			
Specific target organ toxicit	<u>y (single exposure)</u>					

Section 11. Toxicological information

Name	Classification	Route of exposure	Target organs
Solvent naphtha (petroleum), light aromatic Xylene 1,2,4-trimethylbenzene	Category 3 Category 3 Category 3	-	Narcotic effects Narcotic effects 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
3-ethyltoluene	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Potential chronic health effects

General	: May cause 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	: May cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

Additional information

Prolonged or repeated contact may dry skin and cause irritation. 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		
	EC: 265-199-0	SKIN IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2		
crystalline silica, respirable powder (>10 microns)	CAS: 14808-60-7	CARCINOGENICITY - Category 1A		
	EC: 238-878-4			
Xylene	CAS: 1330-20-7 EC: 215-535-7	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2		
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Section 11. Toxicological information

1,2,4-trimethylbenzene	CAS: 95-63-6	EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 FLAMMABLE LIQUIDS - Category 3
	EC: 202-436-9	ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) -
		Category 3 AQUATIC HAZARD (LONG-TERM) - Category 2
titanium dioxide	CAS: 13463-67-7 EC: 236-675-5	CARCINOGENICITY - Category 2
crystalline silica, respirable powder (<10 microns)	CAS: 14808-60-7	CARCINOGENICITY - Category 1A
	EC: 238-878-4	
3-ethyltoluene	CAS: 620-14-4	FLAMMABLE LIQUIDS - Category 3
	EC: 210-626-8	ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2
ethylbenzene	CAS: 100-41-4	FLAMMABLE LIQUIDS - Category 2
,	EC: 202-849-4	ACUTE TOXICITY (inhalation) - Category 4
		CARCINOGENICITY - Category 2
		ASPIRATION HAZARD - Category 1
		AQUATIC HAZARD (LONG-TERM) - Category 3
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	CAS: 41556-26-7	SKIN SENSITIZATION - Category 1B
	EC: 255-437-1	TOXIC TO REPRODUCTION - Category 2
		AQUATIC HAZARD (ACUTE) - Category 1
		AQUATIC HAZARD (LONG-TERM) - Category 1

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
titanium dioxide ethylbenzene	Acute LC50 >100 mg/l Fresh water Acute EC50 1.8 mg/l Fresh water Chronic NOEC 1 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> Daphnia Daphnia - <i>Ceriodaphnia dubia</i>	48 hours 48 hours -

B. Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
ethylbenzene	-	79 % - Rea	adily - 10 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
<mark>K</mark> ylene ethylbenzene	-		-		Readily Readily	

C. Bioaccumulative potential

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Section 12. Ecological information

Product/ingredient name	LogPow	BCF	Potential
X ylene	3.12	7.4 to 18.5	Low
1,2,4-trimethylbenzene	3.63	120.23	Low
3-ethyltoluene	3.98	-	Low
ethylbenzene	3.6	79.43	Low

D. Mobility in soil

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

- E. <u>Other adverse effects</u> : No known significant effects or critical hazards.

Section 13. Disposal considerations

- A. Disposal methods
 The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
- B. Disposal precautions
 This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	UN	IMDG	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	
Environmental hazards	No.	No.	No.
E. Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

Additional information

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Section 14. Transport information

UN	: This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5.1.
IMDG	: This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5.
ΙΑΤΑ	: None identified.

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

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

Transport in bulk according : Not applicable. to IMO instruments

Section 15. Regulatory information

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 19.	
	Exposure Limits of Chem	ica	al Substances and Physical Factors	
	The following components	s h	ave an OEL:	
	ISHA Enforcement Regs Annex 19 (Exposure standards established for harmful factors)	:	None of the components are listed.	
	ISHA Enforcement Regs Annex 11-5 (Harmful factors subject to Work Environment Measurement)	:	The following components are listed: quartz, xylene, titanium dioxide, quartz, ethyl benzene	
	ISHA Enforcement Regs Annex 22 (Harmful Factors Subject to Special Health Check- up)	:	The following components are listed: Xylene, Ethyl benzene	
	Standard of Industrial Safety and Health Annex 12 (Hazardous substances subject to control)	:	The following components are listed: xylene, titanium dioxide, ethyl benzene	
P	Degulation according to (~ h	emieste Centrel Act	

B. Regulation according to Chemicals Control Act

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Section 15. Regulatory information

	Article 11 (TRI)	4	The following components are listed: Xylene including o-,m-,p- isomer, Ethylbenzene
	Article 18 Prohibited (K- Reach Article 27)	:	None of the components are listed.
	Article 19 Subject to authorization (K-Reach Article 25)	:	None of the components are listed.
	Article 20 Restricted (K- Reach Article 27)	:	None of the components are listed.
	Article 20 Toxic Chemicals (K-Reach Article 20)	:	Not applicable
	Korea inventory	1	All components are listed or exempted.
	Article 39 (Accident Precaution Chemicals)	:	None of the components are listed.
C.	<u>Dangerous Materials</u> <u>Safety Management Act</u>	:	Class: Class 4 - Flammable Liquid Item: 4. Class 2 petroleums - Water-insoluble liquid Threshold: 1000 L Danger category: III Signal word: Contact with sources of ignition prohibited
D.	Wastes regulation	1	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Ε.	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

Α.	References	: Korean Ministry of Environment; Chemical Control Act Korean Ministry of Labor; Industrial Safety and Health Act
		NIER Notice Registry of Toxic Effects of Chemical Substances (RTECS)
		U.S. Environmental Protection Agency, AQUIRE (Aquatic toxicity Information Retrieval) ECOTOX Database System.
в.	First issue date	: 4/24/2020
C.	Date of issue/Date of revision	: 11/25/2024
D.	Version	: 3.03
	Prepared by	: EHS
-	Other	

E. 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.

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