# **SAFETY DATA SHEET**



Date of issue (month/day/year) 3/12/2022

Version 8

## Section 1. Chemical product and company identification

Α.	Product name Product code	: AMERCOAT 450S RESIN RAL : 00332680	7009
В.	Relevant identified uses	of the substance or mixture and uses	advised against
	Product use	: Professional applications, Used by s	spraying.
	Use of the substance/ mixture	: Coating.	
	Uses advised against	: Product is not intended, labelled or p	backaged for consumer use.

C.	Supplier's or Importer's information	:	PPG SSC (680-090) 19, Yeocheon-ro 217beon-gil, Nam-gu, Ulsan, Korea Tel: +82-52-210-8222 Korea.MSDS@PPG.COM
	Email Address		Norea.MoDo@TT 0.00M
	Emergency telephone number:	1	+82-52-210-8222

## Section 2. Hazards identification

A.	Hazard classification	: FLAMMABLE LIQUIDS - Category 3
		SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		CARCINOGENICITY - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -
		Category 3
		SPEČIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
		AQUATIC HAZARD (LONG-TERM) - Category 3

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 ż

**Symbol** 



Signal word

: Danger

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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.
	H372 - Causes damage to organs through prolonged or repeated exposure. (centr
	nervous system (CNS), kidneys, liver)
	H412 - Harmful to aquatic life with long lasting effects.
Precautionary stateme	nts
Prevention	<ul> <li> <b>P</b>202 - 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 ventileting or lighting equipment      </li> </ul>
	P241 - Use explosion-proof electrical, ventilating or lighting equipment. P242 - Use non-sparking tools.
	P242 - Ose holl-sparking tools. P243 - Take action to prevent static discharges.
	P243 - Take action to prevent static discharges. P273 - Avoid release to the environment.
	P260 - Do not breathe vapor.
	P200 - Do not breathe vapor. P270 - Do not eat, drink or smoke when using this product.
	P264 - Wash thoroughly after handling.
_	
Response	<ul> <li>P308 + P313 - IF exposed or concerned: Get medical advice or attention.</li> <li>P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.</li> <li>P362 + P364 - Take off contaminated clothing and wash it before reuse.</li> <li>P302 + P352 - IF ON SKIN: Wash with plenty of water.</li> <li>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes</li> </ul>
	Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.
Storage	<ul> <li>₱403 + P233 - Store in a well-ventilated place. Keep container tightly closed.</li> <li>P403 + P235 - Keep cool.</li> </ul>
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
. Other hazards which d not result in classification	■ : Frolonged 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	%
<b>X</b> ylene	XYLENES	CAS: 1330-20-7	10 -<20
Solvent naphtha (petroleum), light	SOLVENT NAPHTHA (PETROLEUM),	CAS: 64742-95-6	1 - <5
aromatic	LIGHT AROMATIC		
ethylbenzene	ETHYLBENZENE	CAS: 100-41-4	1 - <5
1,2,4-trimethylbenzene	1,2,4-TRIMETHYL BENZENE	CAS: 95-63-6	1 - <5
titanium dioxide	TITANIUM DIOXIDE	CAS: 13463-67-7	1 - <5
iron hydroxide oxide yellow	IRON HYDROXIDE OXIDE	CAS: 51274-00-1	1 - <5
12-hydroxyoctadecanoic acid, reaction	12-hydroxyoctadecanoic acid, reaction	CAS: 220926-97-6	1 - <5
products with	products with		
1,3-benzenedimethanamine and	1,3-benzenedimethanamine and		
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### Section 3. Composition/information on ingredients

	U		
hexamethylenediamine	hexamethylenediamine		
carbon black	CARBON BLACK	CAS: 1333-86-4	0.1 - <1
bis(1,2,2,6,6-pentamethyl-4-piperidyl)	BIS(PENTAMETHYLPIPERIDYL)	CAS: 41556-26-7	0.1 - <1
sebacate	SEBACATE		
Distillates (petroleum), hydrotreated light	DISTILLATES (PETROLEUM),	CAS: 64742-47-8	0.1 - <1
. , , , , , , , , , , , , , , , , , , ,	HYDROTREATED LIGHT		
methyl 1,2,2,6,6-pentamethyl-4-piperidyl	METHYL-(1,2,2,6,6-PENTAMETHYL-	CAS: 82919-37-7	0.1 - <1
sebacate	4-PIPERDIYL) SEBACATE		
	,		

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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	1	No specific treatment.
	Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

Α.	Extinguishing media	
	Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
	Unsuitable extinguishing media	: Do not use water jet.

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Section 5. Fire-fighting measures

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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

Hazardous thermal decomposition products
 Decomposition products
 Decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur 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.

**B.** Specific hazards arising : Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard.

### 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.
C. Methods and materials for	СС	ontainment 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.

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Section 7. Handling and storage

- A. Precautions for safe handling
   i Fut 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).			
	STEL: 150 ppm 15 minutes.			
	TWA: 100 ppm 8 hours.			
ethylbenzene	Ministry of Employment and Labor			
	(Republic of Korea, 1/2020).			
	STEL: 125 ppm 15 minutes.			
	TWA: 100 ppm 8 hours.			
1,2,4-trimethylbenzene	Ministry of Employment and Labor			
	(Republic of Korea, 1/2020).			
	TWA: 25 ppm 8 hours.			
itanium dioxide	Ministry of Employment and Labor			
	(Republic of Korea, 1/2020).			
	TWA: 10 mg/m <sup>3</sup> 8 hours. Form: total dus			
	with less than 1% of free SiO2			
iron hydroxide oxide yellow	Ministry of Employment and Labor			
	(Republic of Korea, 1/2020).			
	_TWA: 5 mg/m³, (as Fe) 8 hours. Form:			
	Fume			
	TWA: 5 mg/m <sup>3</sup> , (as Fe) 8 hours.			
12-hydroxyoctadecanoic acid, reaction products with	ACGIH TLV (United States).			
1,3-benzenedimethanamine and hexamethylenediamine	TWA: 10 mg/m <sup>3</sup> Form: Inhalable particle			
	TWA: 3 mg/m³, (inhalable dust) Form:			
	Respirable particle			
carbon black	Ministry of Employment and Labor			
	(Republic of Korea, 1/2020).			
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## Section 8. Exposure controls/personal protection

Distillates (petroleum), hydrotreated light	TWA: 3.5 mg/m <sup>3</sup> 8 hours. Form: inhalable fraction <b>ACGIH TLV (United States, 1/2021).</b> <b>Absorbed through skin.</b> TWA: 200 mg/m <sup>3</sup> , (as total hydrocarbon vapor) 8 hours.
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: If this product contains ingredients with exposure limits, personal, workplace
atmosphere or biological monitoring may be required to determine the effectiveness
of the ventilation or other control measures and/or the necessity to use respiratory
protective equipment. 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
   Emissions from ventilation or work process equipment should be checked to ensure
  - **exposure controls** exposure controls 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. 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:
Body protection	:	Not recommended: nitrile rubber Recommended: neoprene, natural rubber (latex), polyvinyl alcohol (PVA), Viton® 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

: Liquid. : Gray.

: Aromatic. : Not available.

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

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#### A. Appearance

Physical state	
Color	

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

: Not applicable.

- range G. Flash point
- G. Flash point: Closed cup: 32°C (89.6°F)H. Evaporation rate: Not available.
- I. Flammability (solid, gas) : Not available.
- J. Lower and upper explosive (flammable) limits
- K. Vapor pressure
- Greatest known range: Lower: 1.4% Upper: 7.6% (Solvent naphtha (petroleum), light aromatic)

	Vapo	r Pressu	re at 20°C	Vapor pressure at 50°C			
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
ethylbenzene	9.3	1.2					

#### L. Solubility Solubility in water

- M. Vapor density
- N. Relative density
- O. Partition coefficient: noctanol/water
- P. Auto-ignition temperature
- Q. Decomposition temperature
- R. Viscosity Flow time (ISO 2431)
- S. Molecular weight

- : Insoluble in the following materials: cold water.
- : Not available.
- : Not available.
- : 1.39
  - : Not applicable.

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

- : Not available.
- : Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)
- : Not available.
- : Not applicable.

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## Section 10. Stability and reactivity

Α.	Chemical stability	4	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 sulfur oxides metal oxide/oxides

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## Section 11. Toxicological information

A. Information routes of ex		: Not available.
Potential acut	<u>e health effec</u>	<u>ets</u>
Inhalation	:	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Ingestion	:	Can cause central nervous system (CNS) depression.
Skin contac	t :	Causes skin irritation. Defatting to the skin.
Eye contact	:	Causes serious eye irritation.
<u>Over-exposure</u>	<u>e signs/symp</u>	<u>itoms</u>
Inhalation	:	Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Ingestion	:	No specific data.
Skin contac	t :	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 haza	rds	

Acute toxicity

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### Section 11. Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
<b>X</b> ylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
Solvent naphtha (petroleum), light aromatic	LD50 Dermal	Rabbit	3.48 g/kg	-
	LD50 Oral	Rat	8400 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	-
1,2,4-trimethylbenzene	LC50 Inhalation Vapor	Rat	18000 mg/m <sup>3</sup>	4 hours
	LD50 Oral	Rat	5 g/kg	-
titanium dioxide	LC50 Inhalation Dusts and mists	Rat	>6.82 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
iron hydroxide oxide yellow	LC50 Inhalation Dusts and mists	Rat	>5.05 mg/l	4 hours
	LD50 Oral	Rat	>10 g/kg	-
12-hydroxyoctadecanoic acid, reaction	LC50 Inhalation Dusts and	Rat	3.56 mg/l	4 hours
products with	mists			
1,3-benzenedimethanamine and hexamethylenediamine				
,	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
carbon black	LD50 Oral	Rat	>10 g/kg	-
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	LD50 Oral	Rat	3.125 g/kg	-
methyl 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
Kylene		Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Conclusion/Summary			•			
Skin	: T	here are no data available	on the mixture i	itself.		
Eyes	: T	here are no data available	on the mixture i	itself.		
Respiratory	: T	here are no data available	on the mixture i	itself.		
<u>Sensitization</u> <u>Conclusion/Summary</u> Skin Respiratory		ere are no data available o ere are no data available o				
Mutagenicity Conclusion/Summary	: Tł	nere are no data available c	on the mixture it	self.		
Carcinogenicity Conclusion/Summary	: Т	here are no data available	on the mixture i	tself.		

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### Section 11. Toxicological information

#### **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
⊠ylene Solvent naphtha (petroleum), light aromatic 1,2,4-trimethylbenzene	Category 3 Category 3 Category 3	-	Narcotic effects Narcotic effects Respiratory tract irritation

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

Name	Classification	Route of exposure	Target organs
Kylene	Category 1		central nervous system (CNS), kidneys, liver
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	Category 2	inhalation	lungs

#### Aspiration hazard

Name	Result
ethylbenzene	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

#### Potential chronic health effects

General	: Causes damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
Carcinogenicity	: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: 📈 known significant effects or critical hazards.

#### **Additional information**

Folonged 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.

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## Section 11. Toxicological information

Chemical name	Identifiers	GHS Classification
₩ylene Solvent naphtha (petroleum), light	CAS: 1330-20-7 CAS: 64742-95-6	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 FLAMMABLE LIQUIDS - Category 3
aromatic		SKIN IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2
ethylbenzene	CAS: 100-41-4	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 2 ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 3
1,2,4-trimethylbenzene	CAS: 95-63-6	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 AQUATIC HAZARD (LONG-TERM) - Category 2
titanium dioxide iron hydroxide oxide yellow 12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	CAS: 13463-67-7 CAS: 51274-00-1 CAS: 220926-97-6	CARCINOGENICITY - Category 2 Not classified. ACUTE TOXICITY (inhalation) - Category 4
carbon black bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	CAS: 1333-86-4 CAS: 41556-26-7	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 CARCINOGENICITY - Category 2 SKIN SENSITIZATION - Category 1B
Distillates (petroleum), hydrotreated light methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	CAS: 64742-47-8 CAS: 82919-37-7	TOXIC TO REPRODUCTION - Category 2 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 CARCINOGENICITY - Category 2 ASPIRATION HAZARD - Category 1 SKIN SENSITIZATION - Category 1B
SEDACALE		TOXIC TO REPRODUCTION - Category 2 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - 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
ethylbenzene	Acute EC50 1.8 mg/l Fresh water Chronic NOEC 1 mg/l Fresh water	Daphnia Daphnia - Ceriodaphnia dubia	48 hours -
titanium dioxide iron hydroxide oxide yellow	Acute LC50 >100 mg/l Fresh water Acute LC50 >100000 mg/l	Daphnia - Daphnia magna Fish	48 hours 96 hours
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	Acute EC50 >100 mg/l	Algae - Pseudokirchneriella subcapitata (microalgae)	72 hours
	Acute EC50 >100 mg/l	Daphnia - Daphnia magna (Water flea)	48 hours
	Acute LC50 >100 mg/l	Fish - Oncorhynchus mykiss (rainbow trout)	96 hours
	Chronic NOEC 100 mg/l	Àlgae - Pseudokirchneriella subcapitata	72 hours
	Chronic NOEC ≥50 mg/l	Daphnia - Daphnia magna (Water flea)	21 days

#### B. Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
ethylbenzene 12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	- OECD 301D Ready Biodegradability - Closed Bottle Test		adily - 10 days eadily - 29 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
Kylene ethylbenzene Distillates (petroleum), hydrotreated light	- - -		-		Readily Readily Readily	

#### C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
<b>X</b> ylene	3.12	7.4 to 18.5	low
ethylbenzene	3.6	79.43	low
1,2,4-trimethylbenzene	3.63	120.23	low
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine	>6	-	high
and hexamethylenediamine Distillates (petroleum), hydrotreated light	-	159	low

#### D. Mobility in soil

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# Section 12. Ecological information

Soil/water partition coefficient (Koc)

- : Not available.
- 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 nonrecyclable 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.

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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	III	III
Environmental hazards	No.	No.	No.
E. Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

#### **Additional information**

- **UN** : None identified.
- IMDG : None identified.
- IATA : 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.

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## Section 14. Transport information

Transport in bulk according : Not applicable. to IMO instruments

## Section 15. Regulatory information

	ootion for Rogan			
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	cal Substances and Physical Factors		
	The following components Vylene ethylbenzene 1,2,4-trimethylbenzene titanium dioxide iron hydroxide oxide yellow 12-hydroxyoctadecanoic a carbon black Distillates (petroleum), hydroxide	/ cid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine		
	Annex 19 (Exposure standards established for harmful factors)	: None of the components are listed.		
	ISHA Enforcement Regs Annex 21 (Harmful factors subject to Work Environment Measurement)	: The following components are listed: xylene, ethyl benzene, titanium dioxide, iron oxide		
	ISHA Enforcement Regs Annex 22 (Harmful Factors Subject to Special Health Check- up)	: The following components are listed: Xylene, Ethyl benzene, Iron oxide (dust, fume)		
	Standard of Industrial Safety and Health Annex 12 (Hazardous substances subject to control)	: The following components are listed: xylene, ethyl benzene, titanium dioxide, iron and its compounds		
В.	Regulation according to (	Chemicals Control Act		
	CCA Article 11 (TRI)	: The following components are listed: Barium and its compounds, Xylene including o ,m-,p- isomer, Ethylbenzene	)-	

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## Section 15. Regulatory information

	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.
	CCA Article 39 (Accident Precaution Chemicals)	:	None of the components are listed.
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
D.	Wastes regulation	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Ε.	Regulation according to	otł	<u>ner foreign laws</u>
	Safety, health and environmental regulations specific for the product	:	No known specific national and/or regional regulations applicable to this product (including its ingredients).

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### Section 16. Other information

Α.	References	<ul> <li>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.</li> </ul>
В.	Date of issue/Date of revision	: 3/12/2022
С.	Version	: 8
	Prepared by	: EHS
D.	Other	

- D. Other
- ✓ Indicates information that has changed from previously issued version.

#### <u>Disclaimer</u>

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.