



_	e of issue 8/11/2 sion 6.03	2023 (I	nonth/day/year)	SDS Number:	AA00147-5300000038
Se	ection 1. Ch	nemica	I product an	d company id	lentification
Α.	Product name Product code		: AMERCOAT 5450 : 00334751	LIGHT TINT	
в.	Relevant identifie	ed uses of	the substance or n	nixture and uses advis	sed against
	Product use		Industrial application	ons, Used by spraying.	
	Use of the substa mixture	ance/	Coating.		
	Uses advised aga	ainst	Product is not inter	nded, labelled or packa	ged for consumer use.
C.	Supplier's or Imp information Email Address	porter's	: PPG SSC (680-090) 19, Yeocheon-ro 2 Ulsan, Korea Tel: +82-52-210-4 Korea.MSDS@PF		
	Email Address		Korea.MSDS@PF	G.COM	
	Emergency telep number:	ohone	: +82-52-210-8222		

Section 2. Hazards identification

A. Hazard classification	: FLAMMABLE LIQUIDS - Category 3
	EYE IRRITATION - Category 2A
	CARCINOGENICITY - Category 1B
	TOXIC TO REPRODUCTION - Category 1B
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -
	Category 3
	SPEČIFÍC 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

Symbol



Signal word

: Danger

Date of issue 8/11/2023 (month/day/year)

Product name AMERCOAT 5450 LIGHT TINT

Section 2. Hazards identification

Hazard statements	 H226 - Flammable liquid and vapor. H319 - Causes serious eye irritation. H336 - May cause drowsiness or dizziness. H350 - May cause cancer. H360 - May damage fertility or the unborn child. H372 - Causes damage to organs through prolonged or repeated exposure. (central nervous system (CNS)) H412 - Harmful to aquatic life with long lasting effects.
Precautionary statement	5
Prevention	 P202 - Do not handle until all safety precautions have been read and understood. P280 - Wear protective gloves, protective clothing and eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P241 - Use explosion-proof electrical, ventilating or lighting equipment. P242 - Use non-sparking tools. P243 - Take action to prevent static discharges. P273 - Avoid release to the environment. P260 - Do not breathe vapor. P270 - Do not eat, drink or smoke when using this product.
Response	 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. 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.
Other hazards which do	: Prolonged or repeated contact may dry skin and cause irritation.

not result in classification

Section 3. Composition/information on ingredients

CAS number/other identifiers

CAS number

: Not applicable.

Chemical name	Common name	Identifiers	%
titanium dioxide	TITANIUM DIOXIDE	CAS: 13463-67-7	10 -<20
Solvent naphtha (petroleum), medium	SOLVENT NAPHTHA (PETROLEUM),	CAS: 64742-88-7	10 -<20
aliph.	MEDIUM ALIPHATIC		
Stoddard solvent	STODDARD SOLVENT	CAS: 8052-41-3	5 - <10
Solvent naphtha (petroleum), light	SOLVENT NAPHTHA (PETROLEUM),	CAS: 64742-95-6	5 - <10
aromatic	LIGHT AROMATIC		
1,2,4-trimethylbenzene	1,2,4-TRIMETHYL BENZENE	CAS: 95-63-6	1 - <5
2-ethylhexanoic acid, zirconium salt	ZIRCONIUM 2-ETHYLHEXANOATE	CAS: 22464-99-9	1 - <5
n-butyl acetate	N-BUTYL ACETATE	CAS: 123-86-4	1 - <5
2-butanone oxime	METHYL ETHYL KETOXIME	CAS: 96-29-7	0.1 - <1
ethylbenzene	ETHYLBENZENE	CAS: 100-41-4	0.1 - <1
cumene	CUMENE	CAS: 98-82-8	0.1 - <1
Fatty acids, C9-13-neo-, cobalt salts	FATTY ACIDS, C9-C13, COBALT	CAS: 68955-83-9	<0.1
1	1	Korea (GHS)	Page: 2/16

Product code 00334751	Date of issue 8/11/2023 (month/day/year)	Version 6.03
Product name AMERCOAT 5450 LIGHT TINT		
Section 3. Composition/information	ation on ingredients	
SALTS		

COBALT NEODECANOATE

CAS: 27253-31-2 <0.1

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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

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.
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 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.

Date of issue 8/11/2023 (month/day/year)

Product name AMERCOAT 5450 LIGHT TINT

Section 5. Fire-fighting measures

	Hazardous thermal decomposition products		Decomposition products may include the following materials: carbon oxides sulfur oxides halogenated compounds metal oxide/oxides
C.	Special equipment for fire-fighting	:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Fire-fighting procedures : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Section 6. Accidental release measures

A. Personal precautions, protective equipment and emergency procedures	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
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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 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.

Section 7. Handling and storage

A. Precautions for safe handling
 Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. 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.

Korea (GHS) Page: 4/16

Section 7. Handling and storage

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.

Materials such as cleaning rags, paper wipes and protective clothing, which are contaminated with the product may spontaneously self-ignite some hours later. To avoid the risks of fires, all contaminated materials should be stored in purpose-built containers or in metal containers with tight-fitting, self-closing lids. Contaminated materials should be removed from the workplace at the end of each working day and be stored outside.

B. Conditions for safe storage, including any incompatibilities
 Do not store above the following temperature: 50°C (122°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
titanium dioxide	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	TWA: 10 mg/m ³ 8 hours. Form: total dust
	with less than 1% of free SiO2
Solvent naphtha (petroleum), medium aliph.	ACGIH TLV (United States).
	TWA: 400 ppm
Stoddard solvent	ACGIH TLV (United States, 1/2022).
	TWA: 525 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
1,2,4-trimethylbenzene	Ministry of Employment and Labor
,_, _, _, _, _, _, _, _, _, _, _, _, _,	(Republic of Korea, 1/2020). [Trimethyl
	benzene (mixed isomers)]
	TWA: 25 ppm 8 hours.
2-ethylhexanoic acid, zirconium salt	Ministry of Employment and Labor
	(Republic of Korea, 1/2020). [Zirconium
	and compounds as Zr]
	STEL: 10 mg/m³, (as Zr) 15 minutes.
	TWA: 5 mg/m ³ , (as Zr) 8 hours.
n-butyl acetate	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	STEL: 200 ppm 15 minutes.
	TWA: 150 ppm 8 hours.
ethylbenzene	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	STEL: 125 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
cumene	Ministry of Employment and Labor
	Korea (GHS) Page: 5/

Section 8. Exposure controls/personal protection

3	ection 6. Exposu	re	controls/personal prot	ection
-				(Republic of Korea, 1/2020). Absorbed through skin.
				TWA: 50 ppm 8 hours.
	Fatty acids, C9-13-neo-, co	oba	It salts	Ministry of Employment and Labor (Republic of Korea, 1/2020). [Cobalt and inorganic compounds]
	neodecanoic acid, cobalt s	alt		TWA: 0.02 mg/m ³ 8 hours. Ministry of Employment and Labor (Republic of Korea, 1/2020). [Cobalt and
				inorganic compounds] TWA: 0.02 mg/m³ 8 hours.
	Recommended monitoring procedures	:		iate monitoring standards. Reference to ods for the determination of hazardous
В.	Appropriate engineering controls	:		s to keep worker exposure to airborne d or statutory limits. The engineering controls oncentrations below any lower explosive
	Environmental exposure controls	:		
С.	Personal protective equip	m	ent	
	Respiratory protection	:	hazards of the product and the safe w workers are exposed to concentration appropriate, certified respirators. Use	n known or anticipated exposure levels, the orking limits of the selected respirator. If s above the exposure limit, they must use a properly fitted, air-purifying or air-fed I standard if a risk assessment indicates this is
	Eye protection	1	Chemical splash goggles.	
	Hand protection	:	be worn at all times when handling ch this is necessary. Considering the pa check during use that the gloves are s should be noted that the time to break	a complying with an approved standard should emical products if a risk assessment indicates rameters specified by the glove manufacturer, still retaining their protective properties. It through for any glove material may be rers. In the case of mixtures, consisting of the gloves cannot be accurately
	Gloves	:	For prolonged or repeated handling, u	se the following type of gloves:
			May be used: butyl rubber Recommended: neoprene, natural rub	bber (latex), nitrile rubber

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.

Korea (GHS) Page: 6/16

Product name AMERCOAT 5450 LIGHT TINT

Section 8. Exposure controls/personal protection

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Hygiene measures
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: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Section 9. Physical and chemical properties

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

A. Appearance

	Physical state	÷	Liquid.				
	Color	÷	Not available.				
В.	Odor	1	Characteristic.				
С.	Odor threshold	1	Not available.	lot available.			
D.	рН	1	Not applicable.				
Ε.	Melting/freezing point	1	Not available.				
F.	Boiling point/boiling range	:	>37.78°C (>100°F)				
G.	Flash point	1	Closed cup: 38°C (100.4°F	-)			
Н.	Evaporation rate	1	0.31 (butyl acetate = 1)				
Т.	Flammability (solid, gas)	:	Not available.				
J.	Lower and upper explosive (flammable) limits	:	Greatest known range: Lov	wer: 0.6%	% Upper:	8% (Stoddar	d solvent)
К.	Vapor pressure	1	0.71 kPa (5.3 mm Hg)				
Т.	Solubility(ies)		Media	Result			
		ľ	cold water	Not sol	uble		
	Solubility in water	:	0.2 g/l				
М.	Vapor density	1	Not available.				
N.	Relative density	:	1.17				
0.	Partition coefficient: n- octanol/water	:	Not applicable.				
Ρ.	Auto-ignition temperature	:					
			Ingredient name	°C	;	°F	Method
			Stoddard solvent	230	0 to 240	446 to 464	
Q.	Decomposition temperature	:	Not available.				•
_	Viscosity : Kinematic (40°C (104°F)): >21 mm ² /s (>21 cSt)						
R.	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 sulfur oxides halogenated compounds metal oxide/ oxides

Section 11. Toxicological information

Α.	Information on the likel routes of exposure	y : Not available.
<u>P</u>	otential acute health effe	ects
	Inhalation	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
	Ingestion	Can cause central nervous system (CNS) depression.
	Skin contact	Defatting to the skin. May cause skin dryness and irritation.
	Eye contact	Causes serious eye irritation.
<u>0</u>	ver-exposure signs/sym	<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
	Skin contact	Adverse symptoms may include the following: irritation dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations
	Eye contact	Adverse symptoms may include the following: pain or irritation watering redness

Section 11. Toxicological information

B. Health hazards

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Manium 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	-
Solvent naphtha (petroleum), medium aliph.	LD50 Dermal	Rabbit	>3000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Stoddard solvent	LD50 Oral	Rat	>5 g/kg	-
Solvent naphtha (petroleum), light aromatic	LD50 Dermal	Rabbit	3.48 g/kg	-
	LD50 Oral	Rat	8400 mg/kg	-
1,2,4-trimethylbenzene	LC50 Inhalation Vapor	Rat	18000 mg/m ³	4 hours
	LD50 Oral	Rat	5 g/kg	-
2-ethylhexanoic acid, zirconium salt	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	>5 g/kg	-
n-butyl acetate	LC50 Inhalation Vapor	Rat	>21.1 mg/l	4 hours
-	LC50 Inhalation Vapor	Rat	2000 ppm	4 hours
	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Oral	Rat	10.768 g/kg	-
2-butanone oxime	LD50 Dermal	Rabbit	1100 mg/kg	-
	LD50 Oral	Rat	100 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	-
cumene	LC50 Inhalation Vapor	Rat	39000 mg/m ³	4 hours
	LD50 Dermal	Rabbit	12.3 g/kg	-
	LD50 Oral	Rat	2260 mg/kg	-
neodecanoic acid, cobalt salt	LD50 Oral	Rat -	1098 mg/kg	-
		Female		

Conclusion/Summary

: There are no data available on the mixture itself.

Irritation/Corrosion

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

Sensitization

Product/ingredient name	Route of exposure	Species	Result
Reodecanoic acid, cobalt salt	skin	Mouse	Sensitizing
		available on the mixture itself. available on the mixture itself.	<u> </u>
<u>Mutagenicity</u> Conclusion/Summary :	There are no data	available on the mixture itself.	

Korea (GHS) Page: 9/16

Section 11. Toxicological information

<u>Carcinogenicity</u> Conclusion/Summary	: There are no data available on the mixture itself.
Reproductive toxicity Conclusion/Summary	: There are no data available on the mixture itself.

Teratogenicity

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

Specific target organ toxicity (single exposure)

Name	Classification	Route of exposure	Target organs
Solvent naphtha (petroleum), medium aliph.	Category 3	-	Narcotic effects
Solvent naphtha (petroleum), light aromatic	Category 3	-	Narcotic effects
1,2,4-trimethylbenzene	Category 3	-	Respiratory tract irritation
n-butyl acetate	Category 3	-	Narcotic effects
2-butanone oxime	Category 1	-	upper respiratory tract
	Category 3		Narcotic effects
Fatty acids, C9-13-neo-, cobalt salts	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Name	Classification	Route of exposure	Target organs
Solvent naphtha (petroleum), medium aliph.	Category 1	-	central nervous system (CNS)
Stoddard solvent	Category 1	-	central nervous system (CNS)
2-butanone oxime neodecanoic acid, cobalt salt	Category 2 Category 1	- oral	blood system gastrointestinal tract

Aspiration hazard

Name	Result
Stoddard solvent Solvent Solvent naphtha (petroleum), light aromatic	ASPIRATION HAZARD - Category 1 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 Mutagenicity	 May cause cancer. Risk of cancer depends on duration and level of exposure. No known significant effects or critical hazards.
Reproductive toxicity	: May damage fertility or the unborn child.

Korea (GHS) Page: 10/16

Section 11. Toxicological information

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
titanium dioxide Solvent naphtha (petroleum), medium aliph.	CAS: 13463-67-7 CAS: 64742-88-7	CARCINOGENICITY - Category 2 FLAMMABLE LIQUIDS - Category 3
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2
Stoddard solvent	CAS: 8052-41-3	FLAMMABLE LIQUIDS - Category 3 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 4
Solvent naphtha (petroleum), light aromatic	CAS: 64742-95-6	FLAMMABLE LIQUIDS - Category 3
1,2,4-trimethylbenzene	CAS: 95-63-6	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
	CA3. 30-00-0	ACUTE TOXICITY (inhalation) - Category 3 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
2-ethylhexanoic acid, zirconium salt n-butyl acetate	CAS: 22464-99-9 CAS: 123-86-4	TOXIC TO REPRODUCTION - Category 1B FLAMMABLE LIQUIDS - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
2-butanone oxime	CAS: 96-29-7	FLAMMABLE LIQUIDS - Category 4 ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 4 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1B CARCINOGENICITY - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
<u> </u>	<u> </u>	Korea (GHS) Page: 11/16

Section 11. Toxicological information				
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		
cumene	CAS: 98-82-8	FLAMMABLE LIQUIDS - Category 3 CARCINOGENICITY - Category 2		
Fatty acids, C9-13-neo-, cobalt salts	CAS: 68955-83-9	ACUTE TOXICITY (oral) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A RESPIRATORY SENSITIZATION - Category 1A SKIN SENSITIZATION - Category 1B CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3		
neodecanoic acid, cobalt salt	CAS: 27253-31-2	ACUTE TOXICITY (oral) - Category 4 SKIN SENSITIZATION - Category 1B CARCINOGENICITY - Category 1B SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 3		

Section 12. Ecological information

A. Ecotoxicity

Product/ingredient name	Result	Species	Exposure
titanium dioxide Solvent naphtha (petroleum), light aromatic	Acute LC50 >100 mg/l Fresh water Acute LC50 8.2 mg/l	Daphnia - <i>Daphnia magna</i> Fish	48 hours 96 hours
2-ethylhexanoic acid, zirconium salt	Acute LC50 >100 mg/l	Fish	96 hours
n-butyl acetate ethylbenzene	Acute LC50 18 mg/l Acute EC50 1.8 mg/l Fresh water Chronic NOEC 1 mg/l Fresh water	Fish Daphnia Daphnia - <i>Ceriodaphnia dubia</i>	96 hours 48 hours -

B. Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
n-butyl acetate	TEPA and OECD 301D	83 % - Rea	adily - 28 days	-		-
ethylbenzene	-	79 % - Rea	adily - 10 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
n-butyl acetate ethylbenzene	-		-		Readily Readily	

C. Bioaccumulative potential

Product name AMERCOAT 5450 LIGHT TINT

Section 12. Ecological information

Product/ingredient name	LogPow	BCF	Potential
Stoddard solvent	3.16 to 7.06	-	High
1,2,4-trimethylbenzene	3.63	120.23	Low
n-butyl acetate	2.3	-	Low
2-butanone oxime	0.63	5.01	Low
ethylbenzene	3.6	79.43	Low
cumene	3.55	35.48	Low

D. <u>Mobility in soil</u>

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

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

Section 13. Disposal considerations

Α.	Disposal methods	: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

B. Disposal precautions
 This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	UN	IMDG	IATA		
A. UN number	UN1263	UN1263	UN1263		
B. UN proper shipping name	PAINT	PAINT	PAINT		
C. Transport hazard class(es)	3	3	3		
D. Packing group	III		III		
Environmental hazards	No.	No.	No.		
E. Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.		

Section 14. Transport information

Additional information

to Youth

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.

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	: It is not allowed to sell to persons under the age of 19.			

Exposure Limits of Chemical Substances and Physical Factors

The following components have an OEL: titanium dioxide Solvent naphtha (petroleum), medium aliph. Stoddard solvent 1,2,4-trimethylbenzene 2-ethylhexanoic acid, zirconium salt n-butyl acetate ethylbenzene cumene Fatty acids, C9-13-neo-, cobalt salts neodecanoic acid, cobalt salt **ISHA Enforcement Regs** : The following components are listed: cobalt and its inorganic compounds Annex 19 (Exposure standards established for harmful factors) **ISHA Enforcement Regs** : The following components are listed: titanium dioxide, stoddard solvent, zirconium Annex 21 (Harmful and its compounds, n-butyl acetate factors subject to Work **Environment Measurement**)

Date of issue 8/11/2023 (month/day/year)

Product name AMERCOAT 5450 LIGHT TINT Section 15, Regulatory information

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	ISHA Enforcement Regs Annex 22 (Harmful Factors Subject to Special Health Check- up)	:	The following components are listed: Stoddard solvent, Zirconium and its compounds
	Standard of Industrial Safety and Health Annex 12 (Hazardous substances subject to control)	:	The following components are listed: titanium dioxide, stoddard solvent, zirconium and its compounds, n-butyl acetate
В.	Regulation according to C	Che	emicals Control Act
	Article 11 (TRI)	:	The following components are listed: Barium and its compounds, Ethylbenzene
	Article 18 Prohibited (K- Reach Article 27)	1	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	:	All components are listed or exempted.
	Article 39 (Accident Precaution Chemicals)	1	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.
Е.	Regulation according to c	oth	<u>er 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).

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.	Date of issue/Date of revision	:	8/11/2023
С.	Version	:	6.03
			Korea (GHS) Page: 15/16

Section 16. Other information

Prepared by

: EHS

D. Other

Indicates information that has changed from previously issued version.

Disclaimer

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