



	e of issue 8/1 sion 6	8/2023	(month/day/year)	SDS Number:	A00147-530000036
Se	ection 1. C	Chemic	al product an	d company ic	lentification
Α.	Product name Product code		: AMERCOAT 5450 : 00334748	DEEP TINT	
в.	Relevant ident	ified uses o	of the substance or n	nixture and uses advis	sed against
	Product use		: Industrial application	ons, Used by spraying.	
	Use of the sub mixture	stance/	: Coating.		
	Uses advised a	against	: Product is not inter	nded, labelled or packa	ged for consumer use.
C.	Supplier's or I information Email Address		Ulsan, Korea Tel: +82-52-210-8		
	Email Address	5	Korea.MSDS@PF	G.COM	
	Emergency tel number:	lephone	: +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 (REPEATED EXPOSURE) - Category 1
	AQUATIC HAZARD (LONG-TERM) - Category 3
- <b>T</b> [1, 2],,,,,,,,	

This product is classified in accordance with the Industrial Safety and Health Act and the Chemical Control Act.

#### B. GHS label elements, including precautionary statements

Symbol	
Signal word Hazard statements	<ul> <li>Danger</li> <li>P226 - Flammable liquid and vapor. H319 - Causes serious eye irritation. 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.</li> </ul>
	Korea (GHS) Page: 1/15

Korea (GHS) Page: 1/15

Version 6

Product name AMERCOAT 5450 DEEP TINT

## Section 2. Hazards identification

	Precautionary statements	5	
	Prevention	:	<ul> <li>P202 - Do not handle until all safety precautions have been read and understood.</li> <li>P280 - Wear protective gloves, protective clothing and eye or face protection.</li> <li>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P241 - Use explosion-proof electrical, ventilating or lighting equipment.</li> <li>P242 - Use non-sparking tools.</li> <li>P243 - Take action to prevent static discharges.</li> <li>P273 - Avoid release to the environment.</li> <li>P260 - Do not breathe vapor.</li> <li>P270 - Do not eat, drink or smoke when using this product.</li> </ul>
	Response	:	<ul> <li>P308 + P313 - IF exposed or concerned: Get medical advice or attention.</li> <li>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.</li> <li>Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P337 + P313 - If eye irritation persists: Get medical advice or attention.</li> </ul>
	Storage	:	P403 + P235 - Store in a well-ventilated place. Keep cool.
	Disposal	:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
C.	Other hazards which do not result in classification	:	Prolonged or repeated contact may dry skin and cause irritation.

# Section 3. Composition/information on ingredients

#### CAS number/other identifiers

**CAS number** : Not applicable.

Chemical name	Common name	Identifiers	%
Solvent naphtha (petroleum), medium	SOLVENT NAPHTHA (PETROLEUM),	CAS: 64742-88-7	10 -<20
aliph.	MEDIUM ALIPHATIC		
Stoddard solvent	STODDARD SOLVENT	CAS: 8052-41-3	5 - <10
titanium dioxide	TITANIUM DIOXIDE	CAS: 13463-67-7	5 - <10
Solvent naphtha (petroleum), light	SOLVENT NAPHTHA (PETROLEUM),	CAS: 64742-95-6	1 - <5
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
2-butanone oxime	METHYL ETHYL KETOXIME	CAS: 96-29-7	0.1 - <1
ethylbenzene	ETHYLBENZENE	CAS: 100-41-4	0.1 - <1
Fatty acids, C9-13-neo-, cobalt salts	FATTY ACIDS, C9-C13, COBALT	CAS: 68955-83-9	<0.1
	SALTS		
neodecanoic acid, cobalt salt	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	:	Use dry chemical, CO <sub>2</sub> , 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.
	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

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. 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	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.
<ul> <li>Small spill</li> <li>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.</li> <li>Large spill</li> <li>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</li> </ul>		:	drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material.
<ul> <li>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.</li> <li><b>Large spill</b></li> <li>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</li> </ul>	C. Methods and materials for	СС	ontainment and cleaning up
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	Small spill	:	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
material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.	Large spill	:	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

### Section 7. Handling and storage

A. Precautions for safe : Put on appropriate personal protective equipment (see Section 8). Avoid exposure handling 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. 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

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.

## Section 7. Handling and storage

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		
Solvent naphtha (petroleum), medium aliph.	ACGIH TLV (United States).		
	TWA: 400 ppm		
Stoddard solvent	ACGIH TLV (United States, 1/2022).		
	TWA: 525 mg/m <sup>3</sup> 8 hours.		
	TWA: 100 ppm 8 hours.		
titanium dioxide	Ministry of Employment and Labor		
	(Republic of Korea, 1/2020).		
	TWA: 10 mg/m <sup>3</sup> 8 hours. Form: total dust		
	with less than 1% of free SiO2		
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/m <sup>3</sup> , (as Zr) 15 minutes.		
	TWA: 5 mg/m³, (as Zr) 8 hours.		
ethylbenzene	Ministry of Employment and Labor		
	(Republic of Korea, 1/2020).		
	STEL: 125 ppm 15 minutes.		
	TWA: 100 ppm 8 hours.		
Fatty acids, C9-13-neo-, cobalt salts	Ministry of Employment and Labor		
	(Republic of Korea, 1/2020). [Cobalt and		
	inorganic compounds]		
	TWA: 0.02 mg/m <sup>3</sup> 8 hours.		
neodecanoic acid, cobalt salt	Ministry of Employment and Labor		
	(Republic of Korea, 1/2020). [Cobalt and		
	inorganic compounds]		
	TWA: 0.02 mg/m <sup>3</sup> 8 hours.		
	to appropriate monitoring standards. Reference to ts for methods for the determination of hazardous uired.		
controls ventilation or other engineer	tilation. Use process enclosures, local exhaust ing controls to keep worker exposure to airborne		

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.

Korea (GHS) Page: 5/15

### Section 8. Exposure controls/personal protection

	-		
	Environmental exposure controls		Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
с.	Personal protective equip	pme	nt
	Respiratory protection	:	Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.
	Eye protection	:	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: Recommended: neoprene, natural rubber (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.
	Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

# Section 9. Physical and chemical properties

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

Α.	Appearance	
	Physical state	: Liquid.
	Color	: Not available.
В.	Odor	: Characteristic.
С.	Odor threshold	: Not available.
D.	рН	: Not applicable.
Ε.	Melting/freezing point	: Not available.
F.	Boiling point/boiling range	: >37.78°C (>100°F)
G.	Flash point	: Closed cup: 38°C (100.4°F)
н.	Evaporation rate	: 0.31 (butyl acetate = 1)

Korea (GHS) Page: 6/15

#### Product code 00334748

#### Product name AMERCOAT 5450 DEEP TINT

# Section 9. Physical and chemical properties

			•	•		
I.	Flammability (solid, gas)	1	Not available.			
J.	Lower and upper explosive (flammable) limits	:	Greatest known range: Lower: 0.6% Upper: 8% (Stoddard solvent)			
<b>K</b> .	Vapor pressure	1	0.68 kPa (5.1 mm Hg)			
L.	Solubility(ies)	:	Media R	esult		
	condomy(ics)		old water N	ot soluble		
	Solubility in water	:	0.1 g/l			
М.	Vapor density	1	Not available.			
N.	Relative density	:	1.22			
<ul> <li>Partition coefficient: n- : Not applicable.</li> <li>octanol/water</li> </ul>						
Ρ.	Auto-ignition temperature	1				
			Ingredient name	°C	°F	Method
			Stoddard solvent	230 to 240	446 to 464	
Q.	Decomposition temperature	:	Not available.			
R.	Viscosity	1	Kinematic (40°C (104°F)): >2	1 mm²/s (>21	cSt)	
1.	Flow time (ISO 2431)	1	Not available.			
S.	Molecular weight	1	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.
<b>C</b> .	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

Version 6

Product name AMERCOAT 5450 DEEP TINT

# Section 11. Toxicological information

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

#### Potential acute health effects

Inhalation	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Skin contact	: Defatting to the skin. May cause skin dryness and irritation.
Eye contact	: Causes serious eye irritation.

#### **Over-exposure signs/symptoms**

Inhalation	: Adverse symptoms may include the following: 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

#### **B. Health hazards**

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
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	-
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	-
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 <sup>3</sup>	4 hours
	LD50 Oral	Rat	5 g/kg	-
2-ethylhexanoic acid, zirconium salt	LD50 Dermal LD50 Oral	Rabbit Rat	>5 g/kg >5 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	-
	1	I	Korea (GHS)	Page: 8/1

Product code 00334748		Date of issue	8/18/2023	(month/day/y	year)	Version 6
Product name AMERCOAT 5450 [						
Section 11. Toxicolog	jical inforn	nation				
neodecanoic acid, cobalt salt	LD50 Oral LD50 Oral			3.5 g/ 1098	′kg mg/kg	-
Conclusion/Summary : Ther	e are no data ava	ilable on the mixtu	re itself.			
Irritation/Corrosion Conclusion/Summary						
	e are no data ava	ilable on the mixtu	re itself.			
		ilable on the mixtu				
Respiratory : Ther	e are no data ava	ilable on the mixtu	re itself.			
<u>Sensitization</u>						
	ute of S bosure	pecies		Result		
Reodecanoic acid, cobalt salt skin	Mc	ouse	Sensitizing		9	
•		able on the mixtur able on the mixtur				
Mutagenicity Conclusion/Summary : There	e are no data avai	lable on the mixtu	e itself.			
Carcinogenicity Conclusion/Summary : There are no data available on the mixture itself.						
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 (sin	<u>gle exposure)</u>					
Name		Classifica	tion R	oute of	Targe	t organs

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
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)

## Section 11. Toxicological information

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

#### **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), medium aliph.	CAS: 64742-88-7	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
titanium dioxide	CAS: 13463-67-7	CARCINOGENICITY - Category 2
Solvent naphtha (petroleum), light aromatic	CAS: 64742-95-6	FLAMMABLE LIQUIDS - Category 3
aromatic		SKIN IRRITATION - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE
<u>·</u>		Korea (GHS) Page: 10/15

# Section 11. Toxicological information

1,2,4-trimethylbenzene	CAS: 95-63-6	EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2 FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2
2-ethylhexanoic acid, zirconium salt 2-butanone oxime	CAS: 22464-99-9 CAS: 96-29-7	EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 AQUATIC HAZARD (LONG-TERM) - Category 2 TOXIC TO REPRODUCTION - Category 1B 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
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
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) -
neodecanoic acid, cobalt salt	CAS: 27253-31-2	Category 3 ACUTE TOXICITY (oral) - Category 4 SKIN SENSITIZATION - Category 1B CARCINOGENICITY - Category 1B SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1

# Section 12. Ecological information

A. <u>Ecotoxicity</u>

Version 6

Product name AMERCOAT 5450 DEEP TINT

# Section 12. Ecological information

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

#### 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
ethylbenzene					Readily	

#### C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Stoddard solvent	3.16 to 7.06	-	High
1,2,4-trimethylbenzene	3.63	120.23	Low
2-butanone oxime	0.63	5.01	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

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.
Β.	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.

Korea (GHS) Page: 12/15

### 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.

#### Additional information

UN	: None identified.
IMDG	: None identified.
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.	A. <u>Regulation according to ISHA</u>				
	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 Chemical Substances and Physical Factors**

The following components have an OEL:

# Section 15. Regulatory information

Bolvent naphth (petroleum), medium aliph.         Stoddard solvent         titanium dioxide         1.2.4-timethylberzene         Fatty acids, C9-13-neo-, cobalt salts         meodecanoic acid, cobalt salt         ISHA Enforcement Regs       : The following components are listed: cobalt and its inorganic compounds         Annex 19 (Exposure       : The following components are listed: stoddard solvent, titanium dioxide, zirconium and its compounds         ISHA Enforcement Regs       : The following components are listed: Stoddard solvent, titanium dioxide, zirconium and its compounds         ISHA Enforcement Regs       : The following components are listed: Stoddard solvent, Zirconium and its compounds         Factors Subject to       : The following components are listed: Stoddard solvent, Zirconium and its compounds         Standard of Industrial       : The following components are listed: stoddard solvent, Ittanium dioxide, zirconium and its compounds         Standard of Industrial       : The following components are listed: stoddard solvent, titanium dioxide, zirconium and its compounds         Stately and Health       : Annex 12 (Hazardous         Annex 12 (Hazardous       : None of the components are listed: Barium and its compounds, Ethylbenzene         Article 19 Torbibited (K-       : None of the components are listed.         Reach Article 27)       : None of the components are listed.         Article 20 Toxic       : None of the		ootion to: Rogan			
Annex 19 (Exposure standards established for harmful factors)       : The following components are listed: stoddard solvent, titanium dioxide, zirconium and its compounds         SHA Enforcement Regs Annex 21 (Harmful factors subject to Work Environment Measurement)       : The following components are listed: Stoddard solvent, Zirconium and its compounds         ISHA Enforcement Regs Annex 22 (Harmful Factors Subject to Special Health Check- up)       : The following components are listed: Stoddard solvent, Zirconium and its compounds         Safety and Health Annex 12 (Hazardous substances subject to control)       : The following components are listed: stoddard solvent, titanium dioxide, zirconium and its compounds         B. Regulation according to Chemicals Control Act Article 11 (TRI)       : The following components are listed: Barium and its compounds, Ethylbenzene Article 18 Prohibited (K- Reach Article 27)         Article 19 Subject to authorization (K-Reach Article 27)       : None of the components are listed. Reach Article 27)         Article 20 Restricted (K- reach Article 27)       : None of the components are listed. Reach Article 27)         Article 20 Restricted (K- reach Article 27)       : None of the components are listed. Reach Article 27)         Article 20 Restricted (K- reach Article 27)       : None of the components are listed. Reach Article 27)         Article 20 Restricted (K- reach Article 27)       : None of the components are listed. Reach Article 27)         Article 20 Restricted (K- reach Article 27)       : None of the components are listed. Reach Article 29         Co		Stoddard solvent titanium dioxide 1,2,4-trimethylbenzene 2-ethylhexanoic acid, zirconium salt ethylbenzene Fatty acids, C9-13-neo-, cobalt salts			
Annex 21 (Harmful factors subject to Work Environment)       and its compounds         ISHA Enforcement Regs Annex 22 (Harmful Factors Subject to Special Health Check- up)       : The following components are listed: Stoddard solvent, Zirconium and its compounds         Safety and Health Annex 12 (Hazardous substances subject to control)       : The following components are listed: stoddard solvent, titanium dioxide, zirconium and its compounds         B. Regulation according to Chemicals Control Act Article 18 Prohibited (K- Reach Article 27)       : The following components are listed: Barium and its compounds, Ethylbenzene Article 18 Prohibited (K- Reach Article 27)         Article 19 Subject to authorization (K-Reach Article 20 Toxic Chemicals (K-Reach Article 20 Toxic       : None of the components are listed.         Article 20 Toxic Chemicals (K-Reach Article 30 (Accident Precaution Chemicals)       : Not applicable         C. Dangerous Materials Safety Management Act       : Class: Class 4 - Flammable 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		Annex 19 (Exposure standards established	:	The following components are listed: cobalt and its inorganic compounds	
Annex 22 (Harmful Factors Subject to Special Health Check- up)compoundsStandard of Industrial Safety and Health Annex 12 (Hazardous substances subject to control): The following components are listed: stoddard solvent, titanium dioxide, zirconium and its compoundsB. Regulation according to Chemicals Control Act Article 11 (TRI): The following components are listed: Barium and its compounds, Ethylbenzene Article 18 Prohibited (K- Reach Article 27)Article 19 Subject to authorization (K-Reach Article 20 Restricted (K- Ethylbenzene: None of the components are listed. Reach Article 27)Article 20 Restricted (K- Reach Article 27): None of the components are listed. Reach Article 27)Article 20 Restricted (K- Reach Article 20): None of the components are listed. Reach Article 20)Korea inventory Article 39 (Accident Precaution Chemicals): Not applicableC. 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 prohibitedD. Wastes regulation: Dispose of contents and container in accordance with all local, regional, national		Annex 21 (Harmful factors subject to Work Environment	:		
Safety and Health Annex 12 (Hazardous substances subject to control)and its compoundsB.Regulation according to Chemicals Control Act Article 11 (TRI): The following components are listed: Barium and its compounds, Ethylbenzene Article 18 Prohibited (K- Reach Article 27)Article 19 Subject to authorization (K-Reach Article 20 Restricted (K- Reach Article 27): None of the components are listed.Article 20 Restricted (K- Reach Article 27): None of the components are listed.Article 20 Restricted (K- Reach Article 20): None of the components are listed.Article 20 Toxic Chemicals (K-Reach Article 20): None of the components are listed.Korea inventory Article 39 (Accident Precaution Chemicals): All components are listed or exempted.C.Dangerous Materials Safety Management Act: Class: Class 4 - Flammable Liquid Threshold: 1000 L Danger category: III Signal word: Contact with sources of ignition prohibitedD.Wastes regulation: Dispose of contents and container in accordance with all local, regional, national		Annex 22 (Harmful Factors Subject to Special Health Check-	:		
Article 11 (TRI): The following components are listed: Barium and its compounds, EthylbenzeneArticle 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 Restricted (K- Reach Article 27): None of the components are listed.Article 20 Toxic Chemicals (K-Reach Article 20): Not applicableKorea inventory Precaution Chemicals): All components are listed or exempted.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 prohibitedD. Wastes regulation: Dispose of contents and container in accordance with all local, regional, national		Safety and Health Annex 12 (Hazardous substances subject to	:		
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 Restricted (K- Reach Article 27): None of the components are listed.Article 20 Toxic Chemicals (K-Reach Article 20): Not applicableKorea inventory Article 39 (Accident Precaution Chemicals): All components are listed or exempted: None of the components are listed or exempted: None of the components are listed: 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 prohibitedD.Wastes regulation: Dispose of contents and container in accordance with all local, regional, national	в.	Regulation according to	Ch	emicals Control Act	
Reach Article 27)Article 19 Subject to authorization (K-Reach Article 25): None of the components are listed.Article 25)Article 20 Restricted (K- Reach Article 27): None of the components are listed.Article 20 Toxic Chemicals (K-Reach Article 20): Not applicableKorea inventory Article 39 (Accident Precaution Chemicals): All components are listed or exempted.C.Dangerous Materials Safety Management Act: Class: Class 4 - Flammable Liquid Item: 4. Class 2 petroleums - Water-insoluble liquid Threshold: 1000 L Danger category: Ill Signal word: Contact with sources of ignition prohibitedD.Wastes regulation: Dispose of contents and container in accordance with all local, regional, national		Article 11 (TRI)	:	The following components are listed: Barium and its compounds, Ethylbenzene	
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 applicableKorea inventory Article 39 (Accident Precaution Chemicals): All components are listed or exempted.C.Dangerous Materials Safety Management Act: Class: Class 4 - Flammable Liquid Item: 4. Class 2 petroleums - Water-insoluble liquid Threshold: 1000 L Danger category: Ill Signal word: Contact with sources of ignition prohibitedD.Wastes regulation: Dispose of contents and container in accordance with all local, regional, national			:	None of the components are listed.	
Reach Article 27): Not applicableArticle 20 Toxic Chemicals (K-Reach Article 20): Not applicableKorea inventory Article 39 (Accident Precaution Chemicals): All components are listed or exempted.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 prohibitedD. Wastes regulation: Dispose of contents and container in accordance with all local, regional, national		authorization (K-Reach	-	None of the components are listed.	
Chemicals (K-Reach Article 20)Image: Constant of the components are listed or exempted.Korea inventory Article 39 (Accident Precaution Chemicals): All components are listed or exempted.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 prohibitedD. Wastes regulation: Dispose of contents and container in accordance with all local, regional, national		•	1	None of the components are listed.	
<ul> <li>Article 39 (Accident Precaution Chemicals)</li> <li>C. Dangerous Materials Safety Management Act</li> <li>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</li> <li>D. Wastes regulation</li> <li>E. Dispose of contents and container in accordance with all local, regional, national</li> </ul>		Chemicals (K-Reach	-	Not applicable	
Precaution Chemicals)       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         E. Wastes regulation       : Dispose of contents and container in accordance with all local, regional, national		Korea inventory	1	All components are listed or exempted.	
Safety Management Act       Item: 4. Class 2 petroleums - Water-insoluble liquid         Threshold: 1000 L       Danger category: III         Signal word: Contact with sources of ignition prohibited       : Dispose of contents and container in accordance with all local, regional, national		Precaution Chemicals)	1	None of the components are listed.	
	C.		:	Item: 4. Class 2 petroleums - Water-insoluble liquid Threshold: 1000 L Danger category: III	
	D.	Wastes regulation	:		

### Section 15. Regulatory information

#### E. <u>Regulation according to other 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	:	8/18/2023
С.	Version	1	6
	Prepared by	1	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.