



	e of issue 12/24/2021 sion 7.03	(m	nonth/day/year) SDS Number: A00147530000004	
Section 1. Chemical product and company identification				
Α.	Product name Product code		AMERCOAT 137 DARK GRAY KIT 00333917	
В.	Relevant identified uses	of 1	the substance or mixture and uses advised against	
	Product use	1	Industrial applications, Used by spraying.	
	Use of the substance/ mixture	1	Coating.	
	Uses advised against	1	Product is not intended, labelled or packaged for consumer use.	
C.	Supplier's or Importer's information	:	: PPG SSC (680-090) 19, Yeocheon-ro 217beon-gil, Nam-gu, Ulsan, Korea Tel: +82-52-210-8222	
	Email Address		Korea.MSDS@PPG.COM	
	Emergency telephone number:	:	+82-52-210-8222	

Section 2. Hazards identification

A Hazard algoaification	
A. Hazard classification	: FLAMMABLE LIQUIDS - Category 3
	SKIN IRRITATION - Category 2
	SERIOUS EYE DAMAGE - Category 1
	SKIN SENSITIZATION - Category 1
	CARCINOGENICITY - Category 1A
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract
	irritation) - Category 3
	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

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Product name AMERCOAT 137 DARK GRAY KIT

Section 2. Hazards identification

	Hazard statements	:	 H226 - Flammable liquid and vapor. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H318 - Causes serious eye damage. H335 - May cause respiratory irritation. H350 - May cause cancer. H412 - Harmful to aquatic life with long lasting effects.
	Precautionary statements	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. P261 - Avoid breathing vapor. P264 - Wash thoroughly after handling.
	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. P362 + P364 - Take off contaminated clothing and wash it before reuse. P302 + P352 - IF ON SKIN: Wash with plenty of water. P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention. P305 + P351 + P338, P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
	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 not result in	:	Prolonged or repeated contact may dry skin and cause irritation.

classification

С

Section 3. Composition/information on ingredients

CAS number/other identifiers

CAS number

: Not applicable.

Chemical name	Common name	Identifiers	%
Talc , not containing asbestiform fibres	Talc, non-asbestos form	CAS: 14807-96-6	10 -<20
bis-[4-(2,3-epoxipropoxi)phenyl]propane	Bisphenol A diglycidyl ether	CAS: 1675-54-3	10 -<20
Mica-group minerals	MICA	CAS: 12001-26-2	5 - <10
heptan-2-one	HEPTAN-2-ONE	CAS: 110-43-0	5 - <10
butan-1-ol	1-BUTANOL	CAS: 71-36-3	5 - <10
tert-butyl acetate	TERT-BUTYL ACETATE	CAS: 540-88-5	5 - <10
titanium dioxide	TITANIUM DIOXIDE	CAS: 13463-67-7	5 - <10
[3-(2,3-epoxypropoxy)propyl] trimethoxysilane	TRIMETHOXYSILANE	CAS: 2530-83-8	1 - <5
carbon black	CARBON BLACK	CAS: 1333-86-4	0.1 - <1
crystalline silica, respirable powder (<10 microns)	QUARTZ (<10 microns)	CAS: 14808-60-7	0.1 - <1
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Section 3. Composition/i	nformation on ingred	ients			
Ethylenediamine	ETHYLENEDIAMINE	CAS: 107-15-3	0.1 - <1		

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Α.	Eye contact	:	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
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. 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 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.
	Hazardous thermal decomposition products	:	Decomposition products may include the following materials: carbon oxides nitrogen oxides metal oxide/oxides
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Section 5. Fire-fighting measures

e-fighters should wear appropriate protective equipment and self-contained eathing apparatus (SCBA) with a full face-piece operated in positive pressure ode.
omptly isolate the scene by removing all persons from the vicinity of the incident if ere is a fire. No action shall be taken involving any personal risk or without itable training. Move containers from fire area if this can be done without risk. se 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. Do not breathe 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 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). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. 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

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Section 7. Handling and storage

hazardous. Do not reuse container.

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

Ministry of Employment and Labor
(Republic of Korea, 1/2020).
TWA: 2 mg/m ³ 8 hours. Form: fibers
Ministry of Employment and Labor
(Republic of Korea, 1/2020).
TWA: 3 mg/m ³ 8 hours. Form: Respirable
fraction
Ministry of Employment and Labor
(Republic of Korea, 1/2020).
TWA: 50 ppm 8 hours.
Ministry of Employment and Labor
(Republic of Korea, 1/2020). Absorbed
through skin.
TWA: 20 ppm 8 hours.
Ministry of Employment and Labor
(Republic of Korea, 1/2020).
TWA: 200 ppm 8 hours.
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
Ministry of Employment and Labor
(Republic of Korea, 1/2020). TWA: 3.5 mg/m³ 8 hours. Form: inhalable
fraction
Ministry of Employment and Labor
(Republic of Korea, 1/2020).
TWA: 0.05 mg/m ³ 8 hours. Form:
Respirable fraction
Ministry of Employment and Labor
(Republic of Korea, 1/2020). Absorbed
through skin.
TWA: 10 ppm 8 hours.

Section 8. Exposure controls/personal protection

	Recommended monitoring procedures	:	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.
В.	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 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.

C. Personal protective equipment

Respiratory protection	 Use an air-fed respirator unless a site-specific assessment determines that an air-fed respirator is not necessary, in which case the results of the risk assessment should be utilized to determine whether respiratory protection is necessary and what type of protection is appropriate. 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. Chemical splash goggles and face shield.
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	butyl 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. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

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Section 9. Physical and chemical properties

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

Α.	Appearance							
	Physical state	:	Liquid.	iquid.				
	Color	:	Dark grey.	Park grey.				
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	1	Closed cup: 32.78°C (91°F)					
н.	Evaporation rate	:	0.44 (butyl acetate = 1)					
Т.	Flammability (solid, gas)	:	Not available.					
J.	Lower and upper explosive (flammable) limits	:	Greatest known range: Lower: 1.4% Upper: 11.3% (butan-1-ol)					
Κ.	Vapor pressure	1).49 kPa (3.7 mm Hg)					
L.	Solubility	:	nsoluble in the following materials: cold water.					
	Solubility in water	:	1.2 g/l					
Μ.	Vapor density	÷	Not available.	Not available.				
	Relative density	÷	1.33					
0.	Partition coefficient: n- octanol/water	:	Not applicable.					
Ρ.	Auto-ignition	:	Ingredient name	°C	°F	Method		
	temperature		butan-1-ol	355	671	EU A.15		
Q.	Decomposition temperature	:	Not available.					
R.	Viscosity	:	Kinematic (40°C (104°F)): >21	mm²/s (>21	cSt)			
	Flow time (ISO 2431)	1	Not available.	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.

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Section 10. Stability and reactivity

D. Hazardous

decomposition products

: Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides metal oxide/oxides

Section 11. Toxicological information

	Information on the likel routes of exposure	y : Not available.				
Po	Potential acute health effects					
	Inhalation	: May cause respiratory irritation.				
	Ingestion	: No known significant effects or critical hazards.				
	Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.				
	Eye contact	: Causes serious eye damage.				
<u>0</u>	ver-exposure signs/sym	i <mark>ptoms</mark>				
	Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing				
	Ingestion	: Adverse symptoms may include the following: stomach pains				
	Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur				
	Eye contact	: Adverse symptoms may include the following: pain watering redness				

B. Health hazards

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
bis-[4-(2,3-epoxipropoxi)phenyl]propane	LD50 Dermal	Rabbit	23000 mg/kg	-
	LD50 Oral	Rat	15000 mg/kg	-
heptan-2-one	LC50 Inhalation Vapor	Rat	16.7 mg/l	4 hours
	LD50 Dermal	Rabbit	10.206 g/kg	-
	LD50 Oral	Rat	1.6 g/kg	-
butan-1-ol	LC50 Inhalation Vapor	Rat	24000 mg/m ³	4 hours
	LC50 Inhalation Vapor	Rat	8000 ppm	4 hours
	LD50 Dermal	Rabbit	3400 mg/kg	-
	LD50 Oral	Rat	790 mg/kg	-
tert-butyl acetate	LD50 Oral	Rat	4100 mg/kg	-
titanium dioxide	LC50 Inhalation Dusts and	Rat	>6.82 mg/l	4 hours
	mists			
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
[3-(2,3-epoxypropoxy)propyl]	LC50 Inhalation Dusts and	Rat	>5300 mg/m ³	4 hours
trimethoxysilane	mists			
	LD50 Dermal	Rabbit	4.3 g/kg	-
	LD50 Oral	Rat	7.01 g/kg	-
carbon black	LD50 Oral	Rat	>10 g/kg	-
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Section 11. Toxicological information

	5				
Ethylenediamine	LD50 Dermal LD50 Oral	Rabbit Rat	0.73 g/kg 0.5 g/kg	-	
	· · · · · · · · · · · ·		•		

Conclusion/Summary

: There are no data available on the mixture itself.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
bis-[4-(2,3-epoxipropoxi)phenyl] propane	Eyes - Redness of the conjunctivae	Rabbit	0.4	24 hours	-
F F	Eyes - Mild irritant	Rabbit	-	24 hours	-
	Skin - Erythema/Eschar	Rabbit	0.8	4 hours	-
	Skin - Edema	Rabbit	0.5	4 hours	-
	Skin - Mild irritant	Rabbit	-	4 hours	-
[3-(2,3-epoxypropoxy)propyl] trimethoxysilane	Eyes - Cornea opacity	Rabbit	11.8	1 minutes	24 hours
Conclusion/Summary		!	•		
Skin · T	here are no data available	on the mixture	itself		

SKIII	
Eves	: There are no data available on the mixture itself.

Respiratory : There are no data available on the mixture itself.

Sensitization

	1			
Product/ingredient name	Route of exposure	Species	Result	
bis-[4-(2,3-epoxipropoxi) phenyl]propane	skin	Mouse	Sensitizing	
Conclusion/Summary		•	•	
Skin :	There are no data	available on the mixture itself.		
Respiratory :	There are no data	available on the mixture itself.		
Mutagenicity				
Conclusion/Summary :	There are no data	available on the mixture itself.		
Consistentiation				
Carcinogenicity	-			
Conclusion/Summary	There are no data	a available on the mixture itself.		
Reproductive toxicity				
	-			
Conclusion/Summary	: There are no data	a available on the mixture itself.		
Teratogenicity				
	• Thora are no data	a available on the mixture itself		
Conclusion/Summary		a available on the mixture itself.		
Specific target organ toxicity (single exposure)				
Second target organ toxic		<u>~1</u>		

Section 11. Toxicological information

Name	Classification	Route of exposure	Target organs
Talc , not containing asbestiform fibres	Category 3	-	Respiratory tract irritation
heptan-2-one	Category 3	-	Narcotic effects
butan-1-ol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Name	Result
heptan-2-one	ASPIRATION HAZARD - Category 2

Potential chronic health effects

General	: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity Mutagenicity	 May cause cancer. Risk of cancer depends on duration and level of exposure. No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

Additional information

Prolonged or repeated contact may dry skin and cause irritation. Sanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Trimethoxysilanes are capable of forming methanol if hydrolyzed or ingested. If swallowed, methanol may be harmful or fatal or cause blindness. Avoid contact with skin and clothing.

Chemical name	Identifiers	GHS Classification		
Talc , not containing asbestiform fibres	CAS: 14807-96-6	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3		
bis-[4-(2,3-epoxipropoxi)phenyl]propane	CAS: 1675-54-3	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1B AQUATIC HAZARD (LONG-TERM) - Category 2		
Mica-group minerals	CAS: 12001-26-2	Not classified.		
heptan-2-one	CAS: 110-43-0	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3		
butan-1-ol	CAS: 71-36-3	ASPIRATION HAZARD - Category 2 FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 4 SKIN IRRITATION - Category 2		
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Section 11. Toxicological information

	SERIOUS EVE DAMAGE Cotogon (1
tert-butyl acetate titanium dioxide [3-(2,3-epoxypropoxy)propyl] trimethoxysilane carbon black crystalline silica, respirable powder (<10 microns) Ethylenediamine CAS: 540-88-5 CAS: 13463-67-7 CAS: 2530-83-8 CAS: 1333-86-4 CAS: 14808-60-7 CAS: 107-15-3	SERIOUS EYE DAMAGE - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 FLAMMABLE LIQUIDS - Category 2 CARCINOGENICITY - Category 2 SERIOUS EYE DAMAGE - Category 1 CARCINOGENICITY - Category 2 CARCINOGENICITY - Category 2 CARCINOGENICITY - Category 3 CORROSIVE TO METALS - Category 1 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 3 SKIN CORROSION - Category 1 SERIOUS EYE DAMAGE - Category 1

Section 12. Ecological information

A. <u>Ecotoxicity</u>

Product/ingredient name	Result	Species	Exposure
bis-[4-(2,3-epoxipropoxi) phenyl]propane	Acute LC50 1.8 mg/l Fresh water	Daphnia - daphnia magna	48 hours
	Chronic NOEC 0.3 mg/l	Daphnia	21 days
heptan-2-one	Acute LC50 131 mg/l	Fish	96 hours
butan-1-ol	Acute LC50 1376 mg/l	Fish	96 hours
titanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
[3-(2,3-epoxypropoxy) propyl]trimethoxysilane	Acute LC50 324 mg/l	Daphnia	48 hours

B. Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
heptan-2-one	OECD 310	69 % - Rea	adily - 28 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
bis-[4-(2,3-epoxipropoxi) phenyl]propane	-		-		Not rea	
heptan-2-one	-		-		Readily	

C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
heptan-2-one butan-1-ol	2.26	-	low low
tert-butyl acetate	1.64	-	low
Ethylenediamine	-2.04	-	low

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Section 12. Ecological information

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

Soil/water partition : Not available. coefficient (K_{oc})

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

Section 13. Disposal considerations

- A. Disposal methods
 The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and 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.
- 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

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Section 14. Transport information

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 : None of the components are listed. (Harmful substances prohibited from manufacture)
	ISHA article 118 : None of the components are listed. (Harmful substances requiring permission)
	Article 2 of Youth Protection : It is not allowed to sell to persons under the age of 19. Act on Substances Hazardous to Youth
	Exposure Limits of Chemical Substances and Physical Factors
	The following components have an OEL: Talc , not containing asbestiform fibres Mica-group minerals heptan-2-one butan-1-ol tert-butyl acetate titanium dioxide carbon black crystalline silica, respirable powder (<10 microns) Ethylenediamine
	ISHA Enforcement Regs : None of the components are listed. Annex 19 (Exposure standards established for harmful factors)
	ISHA Enforcement Regs : The following components are listed: talc / soapstone, mica, methyl n-amyl ketone, n-butanol, titanium dioxide Annex 21 (Harmful factors subject to Work : n-butanol, titanium dioxide Environment Measurement)
	ISHA Enforcement Regs : The following components are listed: mica, Methyl n-amyl ketone, n-Butanol Annex 22 (Harmful Factors Subject to Special Health Check- up)
	Standard of Industrial : The following components are listed: mica, methyl n-amyl ketone, n-butanol, titanium dioxide Safety and Health : The following components are listed: mica, methyl n-amyl ketone, n-butanol, titanium dioxide Annex 12 (Hazardous substances subject to control) : The following components are listed: mica, methyl n-amyl ketone, n-butanol, titanium dioxide
R	Regulation according to Chemicals Control Act

B. Regulation according to Chemicals Control Act

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Section 15. Regulatory information

CCA Article 11 (TRI) : None of the components are listed. Article 18 Prohibited (K- : None of the components are listed.	: None of the compone		004 4-41-1-4
Article 18 Prohibited (K-			CCA Article 1
Reach Article 27)	: None of the compone		
Article 19 Subject to : None of the components are listed. authorization (K-Reach Article 25)	: None of the compone	ation (K-Reach	
Article 20 Restricted (K- : None of the components are listed. Reach Article 27)	: None of the compone	•	
Article 20 Toxic : Not applicable Chemicals (K-Reach Article 20)	: Not applicable	ls (K-Reach	
Corea inventory : All components are listed or exempted.	: All components are lis	ventory	Korea invent
CCA Article 39 : None of the components are listed. Accident Precaution Chemicals)	: None of the compone	t Precaution	
Dangerous Materials : Class: Class 4 - Flammable Liquid 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	Item: 4. Class 2 petro Threshold: 1000 L Danger category: III		
<i>Nastes regulation</i> : Dispose of contents and container in accordance with all local, regional, national and international regulations.		egulation). <u>Wastes regul</u>
Regulation according to other foreign laws	<u>other foreign laws</u>	on according to ot	. Regulation a
Safety, health and environmental regulations specific for the product : No known specific national and/or regional regulations applicable to this product (including its ingredients).		nental ns specific for	environment

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	:	12/24/2021
C.	Version	:	7.03
	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.

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