SAFETY DATA SHEET



Date of issue 1/15/2020 (month/day/year)

Version 7.02

Section 1. Chemical product and company identification

A. Product n Product c		'ER 456 BASE CNC (WHITE) 7018
B. Relevant i	dentified uses of the substanc	e or mixture and uses advised against
Product u	se : Professiona	l applications, Used by spraying.
Use of the mixture	e substance/ : Coating. Pa	aint. Painting-related materials.

Uses advised against : Product is not intended, labelled or packaged for consumer use.

C. Supplier's information	: PPG SSC (680-090) 19, Yeocheon-ro 217beon-gil, Nam-gu, Ulsan, Korea Tel: +82-52-210-8222 Korea.MSDS@PPG.COM
Emergency telephone number:	: +82-52-210-8222

Section 2. Hazards identification

A. Hazard classification	: FLAMMABLE LIQUIDS - Category 3
	SKIN CORROSION/IRRITATION - Category 2
	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
	SKIN SENSITIZATION - Category 1
	CARCINOGENICITY - Category 1A
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (central nervous
	system (CNS), kidneys, liver) - Category 1
	AQUATIC HAZARD (LONG-TERM) - Category 3
This product is clossified in a	apardance with the Industrial Safety and Legith Ast and the Chemical Central Ast

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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Section 2. Hazards identification

Hazard statements	 H226 - Flammable liquid and vapor. H319 - Causes serious eye irritation. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H350 - May cause cancer. H372 - Causes damage to organs through prolonged or repeated exposure. (central nervous system (CNS), kidneys, liver) H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements	
Prevention	 P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment.
	 P242 - Use only non-sparking tools. P243 - Take precautionary measures against static discharge. P233 - Keep container tightly closed. P273 - Avoid release to the environment. P260 - Do not breathe vapor. P270 - Do not eat, drink or smoke when using this product. P264 - Wash hands thoroughly after handling. P272 - Contaminated work clothing should not be allowed out of the workplace. P240 - Ground/bond container and receiving equipment.
Response	 P314 - Get medical attention if you feel unwell. P308 + P313 - IF exposed or concerned: Get medical attention. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P302 + P352 + P362 + P364 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. P333 + P313 - If skin irritation or rash occurs: Get medical attention. 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 attention.
Storage	: P405 - Store locked up. P403 - Store in a well-ventilated place. 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 classification	: Prolonged or repeated contact may dry skin and cause irritation.

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Section 3. Composition/information on ingredients

CAS number/other identifiers

CAS	nur	nber

: Not applicable.

Chemical name	Common name	Identifiers	%
titanium dioxide	TITANIUM DIOXIDE	CAS: 13463-67-7	20 - <30
Epoxy Resin	EPOXY RESIN	CAS: SUB110652	20 - <30
Xylene	Xylene	CAS: 1330-20-7	10 -<20
crystalline silica, respirable powder (<10 microns)	QUARTZ (<10 microns)	CAS: 14808-60-7	10 -<20
Talc , not containing asbestiform fibres	Talc, non-asbestos form	CAS: 14807-96-6	5 - <10
Epoxy resin (MW ≤ 700)	EPOXY RESIN (AVERAGE MOLECULAR WT < 700)	CAS: 25068-38-6	5 - <10
ethylbenzene	ETHYLBENZENE	CAS: 100-41-4	1 - <5

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.

SUB codes represent substances without registered CAS Numbers.

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	:	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)

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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 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.

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.

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Section 6. Accidental release measures

Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with 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

handling

A. Precautions for safe Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. 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 non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

B. Conditions for safe : Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in storage, including any 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 incompatibilities 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, 7/2018).
	TWA: 10 mg/m ³ 8 hours. Form: total dust
	with less than 1% of free SiO2
Xylene	Ministry of Employment and Labor
	(Republic of Korea, 7/2018).
	STEL: 150 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
crystalline silica, respirable powder (<10 microns)	Ministry of Employment and Labor
	(Republic of Korea, 7/2018).

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Section 8. Exposure controls/personal protection

	Talc , not containing asbes	tifo	rm fibres	TWA: 0.05 mg/m ³ 8 hours. Form: Respirable fraction Ministry of Employment and Labor (Republic of Korea, 7/2018).
	ethylbenzene			TWA: 2 mg/m ³ 8 hours. Form: fibers Ministry of Employment and Labor (Republic of Korea, 7/2018). STEL: 125 ppm 15 minutes. TWA: 100 ppm 8 hours.
	Recommended monitoring procedures	:		ay be required to determine the effectiveness ires and/or the necessity to use respiratory d be made to appropriate monitoring nce documents for methods for the
В.	Appropriate engineering controls	:	or other engineering controls to keep w	e process enclosures, local exhaust ventilation orker exposure to airborne contaminants mits. The engineering controls also need to below any lower explosive limits. Use
	Environmental exposure controls	:	they comply with the requirements of er	ess equipment should be checked to ensure nvironmental protection legislation. In some ering modifications to the process equipment o acceptable levels.
C.	Personal protective equip	me	nt	
	Respiratory protection		hazards of the product and the safe we workers are exposed to concentrations appropriate, certified respirators. Use a respirator complying with an approved necessary.	known or anticipated exposure levels, the orking limits of the selected respirator. If above the exposure limit, they must use a properly fitted, air-purifying or air-fed standard if a risk assessment indicates this is
	Eye protection		Chemical splash goggles.	
	Hand protection	:	be worn at all times when handling che this is necessary. Considering the para check during use that the gloves are st should be noted that the time to breakt	complying with an approved standard should emical products if a risk assessment indicates ameters specified by the glove manufacturer, ill retaining their protective properties. It hrough for any glove material may be different be case of mixtures, consisting of several gloves cannot be accurately estimated.
	Gloves	:	butyl rubber	
	Body protection	:	being performed and the risks involved before handling this product. When the	body should be selected based on the task and should be approved by a specialist ere is a risk of ignition from static electricity, r the greatest protection from static discharges, alls, boots and gloves.

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Section 8. Exposure controls/personal protection

- **Hygiene measures**
- : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. 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.

Section 9. Physical and chemical properties

Α.	Appearance		
	Physical state	1	Liquid.
	Color	1	White.
В.	Odor	1	Aromatic.
С.	Odor threshold	1	Not available.
D.	рН	1	Not available.
Ε.	Melting/freezing point	1	Not available.
F.	Boiling point/boiling range	:	>37.78°C (>100°F)
G.	Flash point	1	Closed cup: 26°C (78.8°F)
н.	Evaporation rate	:	Not available.
Т.	Flammability (solid, gas)	1	Not available.
J.	Lower and upper explosive (flammable) limits	:	Ø reatest known range: Lower: 0.8% Upper: 6.7% (xylene)
Κ.	Vapor pressure	1	Not available.
Ε.	Solubility	1	Insoluble in the following materials: cold water.
Μ.	Vapor density	1	Not available.
Ν.	Relative density	1	1.51
0.	Partition coefficient: n- octanol/water	:	Not available.
Ρ.	Auto-ignition temperature	:	Not available.
Q.	Decomposition temperature	:	Not available.
R.	Viscosity	:	Kinematic (40°C (104°F)): >0.21 cm²/s (>21 cSt)
S .	Molecular weight	:	Not applicable.

Section 10. Stability and reactivity

Α.	Chemical stability Possibility of hazardous reactions		The product is stable. 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.

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Section 10. Stability and reactivity

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

A. Information on the li routes of exposure	kely : Not available.
Potential acute health	<u>effects</u>
Inhalation	: No known significant effects or critical hazards.
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 irritation.
Over-exposure signs/s	symptoms

Inhalation : No specific data.

Ingestion	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness

B. Health hazards

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
iitanium 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	-
Xylene	LD50 Dermal	Rabbit	>1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
Epoxy resin (MW ≤ 700)	LD50 Dermal	Rabbit	>2 g/kg	-
,	LD50 Oral	Rat	>2 g/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	-

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

Irritation/Corrosion

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Section 11. Toxicological information

Product/ingredient name		Result	Species	Score	Exposure	Observation
K ylene		Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Epoxy resin (MW ≤ 700)		Skin - Mild irritant	Rabbit	-	-	-
		Eyes - Mild irritant	Rabbit	-	-	-
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	Species	Result
		exposure	00000	
Epoxy resin (MW \leq 700)		skin	Mouse	Sensitizing
Conclusion/Summary		•		
Skin	: 7	There are no data a	vailable on the mixture itself.	
Respiratory	: 1	There are no data a	vailable on the mixture itself.	
Mutagenicity				
Conclusion/Summary	:	There are no data a	available on the mixture itself.	
Carcinogenicity				
Conclusion/Summary	1	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
		Not applicable.	Narcotic effects Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Name	Classification	Route of exposure	Target organs
Kylene	Category 1		central nervous system (CNS), kidneys and liver

Aspiration hazard

Name	Result		
ethylbenzene	ASPIRATION HAZARD - Category 1	ASPIRATION HAZARD - Category 1	
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Section 11. Toxicological information

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. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	:	May cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	:	No known significant effects or critical hazards.
Teratogenicity	1	No known significant effects or critical hazards.
Developmental effects	:	No known significant effects or critical hazards.
Fertility effects	1	No known significant effects or critical hazards.

Additional information

Sanding and grinding dusts may be harmful if inhaled. This product contains crystalline silica which can cause lung cancer or silicosis. The risk of cancer depends on the duration and level of exposure to dust from sanding surfaces or mist from spray applications. 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. Wash thoroughly after handling. Emits toxic fumes when heated.

Chemical name	Common name	CAS #	GHS Classification
Manium dioxide Epoxy Resin	TITANIUM DIOXIDE EPOXY RESIN	13463-67-7 SUB110652	CARCINOGENICITY - Category 2 SKIN CORROSION/IRRITATION - Category 2
Xylene	Xylene	1330-20-7	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 SKIN SENSITIZATION - Category 1 FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION/IRRITATION - Category 4
crystalline silica, respirable	QUARTZ (<10 microns)	14808-60-7	2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (central nervous system (CNS), kidneys, liver) - Category 1 CARCINOGENICITY - Category 1A
powder (<10 microns) Talc , not containing asbestiform fibres	Talc, non-asbestos form	14807-96-6	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
Epoxy resin (MW ≤ 700)	EPOXY RESIN (AVERAGE MOLECULAR WT < 700)	25068-38-6	SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 SKIN SENSITIZATION - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2
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Product code 00 Product name SI	244866 GMACOVER 456 BASE CNC (WHIT		1/15/2020 (month/day/year)	Version 7.02				
Section 11	Section 11. Toxicological information							
ethylbenzene	ethylbenzene ETHYLBENZENE		FLAMMABLE LIQUIDS - (ACUTE TOXICITY (inhala CARCINOGENICITY - Ca ASPIRATION HAZARD -	ation) - Category 4 tegory 2				

Section 12. Ecological information

A. Ecotoxicity

Product/ingredient name	Result	Species	Exposure
titanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
Epoxy resin (MW ≤ 700)	Acute LC50 1.8 mg/l	Daphnia	48 hours
	Chronic NOEC 0.3 mg/l	Daphnia	21 days
ethylbenzene	Acute LC50 150 to 200 mg/l Fresh water	Fish	96 hours

B. Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
Epoxy resin (MW ≤ 700)	OECD 301F	5 % - 28 da	ays	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
<mark>X</mark> ylene Epoxy resin (MW ≤ 700) ethylbenzene	-		-		Readily Not rea Readily	dily

C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential	
₩ylene	3.16	7.4 to 18.5	low	
Epoxy resin (MW \leq 700)	3	31	low	
ethylbenzene	3.15	79.43	low	

D. Mobility in soil

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 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.

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Section 13. Disposal considerations

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

Section 14. Transport information

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

Additional information

UN : None identified. IMDG : None identified.

IATA : None identified.

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

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

Section 15. Regulatory information

A .	A. <u>Regulation according to ISHA</u>			
	ISHA article 37 (Harmful substances prohibited from manufacture)	: None of the components are listed.		
	ISHA article 38 (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:

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Section 15. Regulatory information

	Manium dioxide Xylene crystalline silica, respirable Talc , not containing asbes ethylbenzene		
	ISHA Enforcement Regs Annex 11-3 (Exposure standards established for harmful factors)	:	None of the components are listed.
	ISHA Enforcement Regs Annex 11-5 (Harmful factors subject to Work Environment Measurement)	:	The following components are listed: Xylene, o,m,p-isomers Preparations containing material at weight ratio of 1% or more, Ethylbenzene Preparations containing material at weight ratio of 1% or more, Quartz (Mineral dust), Titanium dioxide Preparations containing material at weight ratio more than 1%, Talc, non-asbestos form/Soap stone less than 1% crystalline silica; (Mineral dust)
	ISHA Enforcement Regs Annex 12-2 (Harmful Factors Subject to Special Health Check-up)	:	The following components are listed: Xylene, Ethylbenzene
	Standard of Industrial Safety and Health Annex 12 (Hazardous substances subject to control)	:	₩he following components are listed: xylene, ethyl benzene, titanium dioxide
В.	Regulation according to C	he	micals Control Act
	CCA Article 20 Toxic Chemicals (K-Reach Article 20)	:	Not applicable
	CCA Article 18 Prohibited (K-Reach Article 27)	:	None of the components are listed.
	CCA Article 20 Restricted (K-Reach Article 27)	:	None of the components are listed.
	CCA Article 11 (TRI)	:	The following components are listed: Xylene including o-,m-,p- isomer, 4,4'- (1-Methylethylidene) bisphenol polymer with (chloromethyl)oxirane, Ethylbenzene, Barium and its compounds
	Korea inventory	:	All components are listed or exempted.
	CCA Article 39 (Accident Precaution Chemicals)	:	None of the components are listed.
C.	<u>Dangerous Materials</u> <u>Safety Management Act</u>	:	Class: Class 4 - Flammable Liquid Item: 4. Class 2 petroleums - Water-insoluble liquid Threshold: 1000 L Danger category: III Signal word: Contact with sources of ignition prohibited
D.	Wastes regulation	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.

E. <u>Regulation according to other foreign laws</u>

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Section 15. Regulatory information

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

В.	Date of issue/Date of		1/15/2020
А.	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.
^	Poforoncos	÷.,	Karaan Ministry of Environment: Chemical Control Act

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- Prepared by

D. Other

Procedure used to derive the classification

Classification	Justification
Flam. Liq. 3, H226	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
Skin Sens. 1, H317	Calculation method
Carc. 1A, H350	Calculation method
STOT RE 1, H372 (central nervous system (CNS), kidneys,	Calculation method
liver) Aquatic Chronic 3, H412	Calculation method

Indicates information that has changed from previously issued version.

Disclaimer

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