SAFETY DATA SHEET



Date of issue 10/27/2023 (month/day/year)

Version 9.01

Section 1. Chemical product and company identification

A. Product name	: SF CHLORO FINISH RAL 5010	
Product code	: 00358347	

B. Relevant identified uses of the substance or mixture and uses advised against

P	roduct use	:	Professional applications, Used by spraying.
	se of the substance/ hixture	:	Coating.
U	ses advised against	:	Product is not intended, labelled or packaged for consumer use.
iı	Supplier's or Importer's nformation	:	PPG SSC (680-090) 19, Yeocheon-ro 217beon-gil, Nam-gu, Ulsan, Korea Tel: +82-52-210-8222
E	Email Address		Korea.MSDS@PPG.COM
	Emergency telephone number:	:	+82-52-210-8222

Section 2. Hazards identification

A. Hazard classification	: FLAMMABLE LIQUIDS - Category 3
	SKIN IRRITATION - Category 2
	EYE IRRITATION - Category 2A
	CARCINOGENICITY - Category 2
	TOXIC TO REPRODUCTION - Effects on or via lactation
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract
	irritation) - Category 3
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -
	Category 3
	SPEČIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
	AQUATIC HAZARD (ACUTE) - Category 1
	AQUATIC HAZARD (LONG-TERM) - Category 1
This product is classified in	accordance with the Industrial Safety and Health Act and the Chemical Control Act

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

В.		Iding precautionary statements
	Symbol	
	Signal word	: Danger

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Product name SF CHLORO FINISH RAL 5010

Section 2. Hazards identification

Hazard statements	 H226 - Flammable liquid and vapor. H315 - Causes skin irritation. H319 - Causes serious eye irritation. H335 - May cause respiratory irritation. H336 - May cause drowsiness or dizziness. H351 - Suspected of causing cancer. H362 - May cause harm to breast-fed children. H372 - Causes damage to organs through prolonged or repeated exposure. (central nervous system (CNS), kidneys, liver) H410 - Very toxic to aquatic life with long lasting effects.
Precautionary statement	S
Prevention	 P202 - Do not handle until all safety precautions have been read and understood. P280 - Wear protective gloves, protective clothing and eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P241 - Use explosion-proof electrical, ventilating or lighting equipment. P242 - Use non-sparking tools. P243 - Take action to prevent static discharges. P273 - Avoid release to the environment. P260 - Do not breathe vapor. P263 - Avoid contact during pregnancy and while nursing. P270 - Do not eat, drink or smoke when using this product. P264 - Wash thoroughly after handling.
Response	 P391 - Collect spillage. 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. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.
Storage	 P403 + P233 - Store in a well-ventilated place. Keep container tightly closed. P403 + P235 - Keep cool.
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
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.

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Section 3. Composition/information on ingredients

Chemical name	Common name	Identifiers	%
dímethyl carbonate	DIMETHYL CARBONATE	CAS: 616-38-6	10 -<20
Solvent naphtha (petroleum), light	SOLVENT NAPHTHA (PETROLEUM),	CAS: 64742-95-6	10 -<20
aromatic	LIGHT AROMATIC		
Xylene	XYLENES	CAS: 1330-20-7	10 -<20
1,2,4-trimethylbenzene	1,2,4-TRIMETHYL BENZENE	CAS: 95-63-6	5 - <10
chloroalkanes(C=14~17)	C14-C17 CHLORINATED	CAS: 85535-85-9	1 - <5
	HYDROCARBONS		
titanium dioxide	TITANIUM DIOXIDE	CAS: 13463-67-7	1 - <5
2-methoxy-1-methylethyl acetate	1-METHOXY-2-PROPYL ACETATE	CAS: 108-65-6	1 - <5
ethylbenzene	ETHYLBENZENE	CAS: 100-41-4	1 - <5
29H,31H-phthalocyaninato(2-)-N29,N30,	COPPER PHTALOCYANINE	CAS: 147-14-8	1 - <5
N31,N32 copper			
mesitylene	1,3,5-TRIMETHYLBENZENE	CAS: 108-67-8	1 - <5
propylbenzene	PROPYLBENZENE	CAS: 103-65-1	1 - <5
cyclohexanone	cyclohexanone	CAS: 108-94-1	0.1 - <1
cumene	CUMENE	CAS: 98-82-8	0.1 - <1
ethanol	ETHYL ALCOHOL	CAS: 64-17-5	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	:	Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
В.	Skin contact	:	Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
C.	Inhalation	:	Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
D.	Ingestion	:	If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.
Е.	Notes to physician	:	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	Specific treatments	1	No specific treatment.
	Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Α.	Extinguishing media		
	Suitable extinguishing media	:	Use dry chemical, CO 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 very toxic 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 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		Avoid dispersal of spilled material and runoff and contact with soil, waterways.

B. Environmental precautions Construct: 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. Collect spillage.

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.

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 noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

A. Precautions for safe handling
 Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid contact during pregnancy or while nursing. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

B. Conditions for safe storage, including any incompatibilities
 Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

A. Occupational exposure limits

Ingredient name	Exposure limits
X ylene	Ministry of Employment and Labor
	(Republic of Korea, 1/2020). [Xylene (all
	isomers)]
	STEL: 150 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
1,2,4-trimethylbenzene	Ministry of Employment and Labor
	(Republic of Korea, 1/2020). [Trimethyl
	benzene (mixed isomers)]
	TWA: 25 ppm 8 hours.
titanium dioxide	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	TWA: 10 mg/m ³ 8 hours. Form: total dust
	with less than 1% of free SiO2
ethylbenzene	Ministry of Employment and Labor
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Section 8. Exposure controls/personal protection

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				(Republic of Korea, 1/2020).
				STEL: 125 ppm 15 minutes.
				TWA: 100 ppm 8 hours.
	mesitylene			Ministry of Employment and Labor
				(Republic of Korea, 1/2020). [Trimethyl
				benzene (mixed isomers)]
				TWA: 25 ppm 8 hours.
	cyclohexanone			Ministry of Employment and Labor
				(Republic of Korea, 1/2020). Absorbed
				through skin.
				TWA: 25 ppm 8 hours.
				STEL: 50 ppm 15 minutes.
	cumene			Ministry of Employment and Labor
				(Republic of Korea, 1/2020). Absorbed
				through skin.
				TWA: 50 ppm 8 hours.
	ethanol			Ministry of Employment and Labor
				(Republic of Korea, 1/2020).
				TWA: 1000 ppm 8 hours.
	Recommended	:	Reference should be made to appropri	ate monitoring standards. Reference to
	monitoring procedures			ods for the determination of hazardous
В.	Appropriate engineering controls	:		s to keep worker exposure to airborne d or statutory limits. The engineering controls oncentrations below any lower explosive
	Environmental exposure controls	:		
C.	Personal protective equip	omo	ent	
	Respiratory protection	:	hazards of the product and the safe w workers are exposed to concentration appropriate, certified respirators. Use	n known or anticipated exposure levels, the orking limits of the selected respirator. If s above the exposure limit, they must use a properly fitted, air-purifying or air-fed standard if a risk assessment indicates this is
	Eye protection	1	Chemical splash goggles.	
	Hand protection	:	Chemical-resistant impervious gloves	complying with an approved standard should
		-	be worn at all times when handling ch this is necessary. Considering the par check during use that the gloves are s should be noted that the time to break	emical products if a risk assessment indicates rameters specified by the glove manufacturer, till retaining their protective properties. It through for any glove material may be rers. In the case of mixtures, consisting of

Section 8. Exposure controls/personal protection

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Gloves	: For prolonged or repeated handling, use the following type of gloves:
	May be used: Chloroprene, nitrile rubber Recommended: butyl rubber, polyvinyl alcohol (PVA), Viton®
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.

A. Appearance

	Physical state	1	Liquid.							
	Color	1	Blue.							
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: 35°C (95°F)								
н.	Evaporation rate	:	Not available.							
Т.	Flammability (solid, gas)	:	Not available.							
J.	Lower and upper explosive (flammable) limits	:	Greatest known rang	ge: Lower:	4.2%	Upper: 12.9%	(dimethy	l carbona	ate)	
Κ.	Vapor pressure	1		Vapo	r Press	ure at 20°C	Vap	oor pres	sur	e
			Ingredient name	mm Hg	kPa	Method	mm Hg	kPa		M
			dimethyl carbonate	56 78	76					

	1		Vapo	r Press	ure at 20°C	Va	por press	sure at 50°C	
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
		dimethyl carbonate	56.78	7.6	OECD 104				
		Media	Re	sult					
		cold water	No	t solubl	е				
	:	Not available.							-
	:	Not available.							
	:	1.02							
nt [.] n-		Not applicable							

- L. Solubility(ies)
 - Solubility in water

Vapor density

- Μ. **Relative density**
- Ν. Partition coefficient: n- : Not applicable.
- Ο. octanol/water

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Section 9. Physical and chemical properties

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P. Auto-ignition temperature

Viscosity

Q.

R.

S.

		Ingredient name	°C	°F	Method
		Solvent naphtha (petroleum), light aromatic	280 to 470	536 to 878	
Decomposition temperature	:	Not available.			

- : Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)
- Flow time (ISO 2431) : Not available.
- 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.
C.	Incompatible materials	:	Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
D.	Hazardous decomposition products	:	Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides halogenated compounds metal oxide/ oxides

Section 11. Toxicological information

A. Information on the routes of exposure			
Potential acute health	n effects		
Inhalation	: Can cause central nervous system (CNS) depression. dizziness. May cause respiratory irritation.	May cause drowsin	ess or
Ingestion	: Can cause central nervous system (CNS) depression.		
Skin contact	: Causes skin irritation. Defatting to the skin.		
Eye contact	: Causes serious eye irritation.		
<u>Over-exposure signs</u>	/symptoms		
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations		
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Section 11. Toxicological information

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 redness 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
dimethyl carbonate	LC50 Inhalation Vapor	Rat	140000 mg/m ³	4 hours
,	LD50 Dermal	Rabbit	2.5 g/kg	-
	LD50 Oral	Rat	12.9 g/kg	-
Solvent naphtha (petroleum), light aromatic	LD50 Dermal	Rabbit	3.48 g/kg	-
	LD50 Oral	Rat	8400 mg/kg	-
Xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
1,2,4-trimethylbenzene	LC50 Inhalation Vapor	Rat	18000 mg/m ³	4 hours
	LD50 Oral	Rat	5 g/kg	-
chloroalkanes(C=14 \sim 17)	LC50 Inhalation Vapor	Rat	>48.17 g/m ³	1 hours
(0 11 17)	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	-
2-methoxy-1-methylethyl acetate	LC50 Inhalation Vapor	Rat	30 mg/l	4 hours
, , , , , , , , , , , , , , , , , , ,	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	6190 mg/kg	-
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
5	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
29H,31H-phthalocyaninato(2-)-N29,	LD50 Dermal	Rat	>5000 mg/kg	-
N30,N31,N32 copper			J J J J	
	LD50 Oral	Rat	5.1 g/kg	-
mesitylene	LC50 Inhalation Vapor	Rat	24000 mg/m ³	4 hours
,	LD50 Oral	Rat	5000 mg/kg	-
propylbenzene	LD50 Oral	Rat	6040 mg/kg	-
cyclohexanone	LC50 Inhalation Gas.	Rat	8000 ppm	4 hours
•	LD50 Dermal	Rabbit	1100 mg/kg	-
	LD50 Oral	Rat	1800 mg/kg	-
cumene	LC50 Inhalation Vapor	Rat	39000 mg/m ³	4 hours
	LD50 Dermal	Rabbit	12.3 g/kg	-
	LD50 Oral	Rat	2260 mg/kg	-
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Section 11. Toxicological information

ethanol	LC50 Inhalation Vapor	Rat	124700 mg/m ³	4 hours
	LD50 Dermal	Rat	17100 mg/kg	-
	LD50 Oral	Rat	7 g/kg	-

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

Irritation/Corrosion

Product/ingredient name		Result	Species	Score	Exposure	Observation	
Xylene		Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-	
Conclusion/Summary			•			1	
Skin	: T	here are no data available o	n the mixture i	tself.			
Eyes	: T	here are no data available o	n the mixture i	tself.			
Respiratory	: Т	here are no data available o	n the mixture i	tself.			
<u>Conclusion/Summary</u> Skin Respiratory	tin : There are no data available on the mixture itself.						
<u>Mutagenicity</u> Conclusion/Summary	: Tł	nere are no data available or	n the mixture its	self.			
Carcinogenicity Conclusion/Summary	: Т	here are no data available o	n the mixture it	tself.			
Reproductive toxicity Conclusion/Summary	: т	here are no data available o	n the mixture i	tself.			
<u>Teratogenicity</u> Conclusion/Summary	: т	here are no data available o	n the mixture i	tself.			

Specific target organ toxicity (single exposure)

Name	Classification	Route of exposure	Target organs
dimethyl carbonate	Category 3	-	Respiratory tract irritation
Solvent naphtha (petroleum), light aromatic	Category 3	-	Narcotic effects
Xylene	Category 3	-	Narcotic effects
1,2,4-trimethylbenzene	Category 3	-	Respiratory tract irritation
2-methoxy-1-methylethyl acetate	Category 3	-	Narcotic effects
mesitylene	Category 3	-	Respiratory tract irritation
propylbenzene	Category 3	-	Respiratory tract irritation
cyclohexanone	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Section 11. Toxicological information

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

Aspiration hazard

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

Potential chronic health effects

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

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		
dimethyl carbonate	CAS: 616-38-6	FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGL EXPOSURE) (Respiratory tract irritation) - Category 3		
Solvent naphtha (petroleum), light aromatic	CAS: 64742-95-6	FLAMMABLE LIQUIDS - Category 3		
Xylene	CAS: 1330-20-7	SKIN IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2		
Ayione	0/10: 1000-20-7	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY		
1,2,4-trimethylbenzene	CAS: 95-63-6	(REPEATED EXPOSURE) - Category 1 FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4		
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Section 11. Toxicological information

		SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE
		EXPOSURE) (Respiratory tract irritation) -
		Category 3
		AQUATIC HAZARD (LONG-TERM) - Category 2
chloroalkanes(C=14~17)	CAS: 85535-85-9	TOXIC TO REPRODUCTION - Effects on or via
		lactation
		AQUATIC HAZARD (ACUTE) - Category 1
		AQUATIC HAZARD (LONG-TERM) - Category 1
titanium dioxide	CAS: 13463-67-7	CARCINOGENICITY - Category 2
2-methoxy-1-methylethyl acetate	CAS: 108-65-6	FLAMMABLE LIQUIDS - Category 3
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE
		EXPOSURE) (Narcotic effects) - Category 3
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
29H,31H-phthalocyaninato(2-)-N29,N30,	CAS: 147-14-8	Not classified.
N31,N32 copper		
mesitylene	CAS: 108-67-8	FLAMMABLE LIQUIDS - Category 3
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE
		EXPOSURE) (Respiratory tract irritation) -
		Category 3
		AQUATIC HAZARD (LONG-TERM) - Category 2
propylbenzene	CAS: 103-65-1	FLAMMABLE LIQUIDS - Category 3
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE
		EXPOSURE) (Respiratory tract irritation) -
		Category 3
		ASPIRATION HAZARD - Category 1
		AQUATIC HAZARD (LONG-TERM) - Category 2
cyclohexanone	CAS: 108-94-1	FLAMMABLE LIQUIDS - Category 3
5		ACUTE TOXICITY (oral) - Category 4
		ACUTE TOXICITY (dermal) - Category 4
		ACUTE TOXICITY (inhalation) - Category 4
		SKIN IRRITATION - Category 2
		SERIOUS EYE DAMAGE - Category 1
		CARCINOGENICITY - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE
		EXPOSURE) (Respiratory tract irritation) -
		Category 3
cumene	CAS: 98-82-8	FLAMMABLE LIQUIDS - Category 3
		CARCINOGENICITY - Category 2
ethanol	CAS: 64-17-5	FLAMMABLE LIQUIDS - Category 2
		EYE IRRITATION - Category 2A
		CARCINOGENICITY - Category 2
	ļ	Or a convolution 1 - Calegoly 2

Section 12. Ecological information

A. Ecotoxicity

Product/ingredient name	Result	Species	Exposure
dimethyl carbonate	Acute LC50 >100 mg/l	Fish	96 hours
Solvent naphtha (petroleum), light aromatic	Acute LC50 8.2 mg/l	Fish	96 hours
titanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
2-methoxy-1-methylethyl acetate	Acute LC50 134 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water Chronic NOEC 1 mg/l Fresh water	Daphnia Daphnia - <i>Ceriodaphnia dubia</i>	48 hours -
29H,31H-phthalocyaninato (2-)-N29,N30,N31,N32 copper	Acute LC50 >100 mg/l	Fish	96 hours
ethanol	Acute EC50 7640 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours

B. Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
-methoxy-1-methylethyl acetate	-	83 % - Rea	adily - 28 days	-		-
ethylbenzene	-	79 % - Rea	adily - 10 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	gradability
Xylene 2-methoxy-1-methylethyl acetate	-		-		Readily Readily	
ethylbenzene ethanol	-		-		Readily Readily	

C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
dimethyl carbonate	0.354	-	Low
Xylene	3.12	7.4 to 18.5	Low
1,2,4-trimethylbenzene	3.63	120.23	Low
chloroalkanes(C=14~17)	4.7 to 8.3	-	High
2-methoxy-1-methylethyl	1.2	-	Low
ethylbenzene	3.6	79.43	Low
29H,31H-phthalocyaninato (2-)-N29,N30,N31,N32	6.6	-	High
copper			
mesitylene	3.42	186.21	Low
propylbenzene	3.69	-	Low
cyclohexanone	0.86	-	Low
cumene	3.55	35.48	Low
ethanol	-0.35	-	Low

D. Mobility in soil

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

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Section 12. Ecological information

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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.
- 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	Ш
Environmental hazards	Yes. The environmentally hazardous substance mark is not required.	Yes.	Yes. The environmentally hazardous substance mark is not required.
E. Marine pollutant substances	Not applicable.	(Solvent naphtha (petroleum), light aromatic, 1,2,4-trimethylbenzene)	Not applicable.

Additional information

UN	: None identified.
IMDG	: The marine pollutant mark is not required when transported in sizes of \leq 5 L or \leq 5 kg.
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.

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

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

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Section 14. Transport information

Transport in bulk according : Not applicable. to IMO instruments

Section 15. Regulatory information

	U	5		
Α.	. Regulation according to ISHA			
	ISHA article 117 (Harmful substances prohibited from manufacture)	: None of the components are listed.		
	ISHA article 118 (Harmful substances requiring permission)	: None of the components are listed.		
	Article 2 of Youth Protection Act on Substances Hazardous to Youth	: It is not allowed to sell to persons under the age of 19.		
	Exposure Limits of Chem	ical Substances and Physical Factors		
The following components have an OEL: Xylene 1,2,4-trimethylbenzene titanium dioxide ethylbenzene mesitylene cyclohexanone cumene ethanol		have an OEL:		
	Annex 19 (Exposure standards established for harmful factors)	: The following components are listed: cyclohexanone		
	ISHA Enforcement Regs Annex 21 (Harmful factors subject to Work Environment Measurement)	: The following components are listed: xylene, titanium dioxide, ethyl benzene		
	ISHA Enforcement Regs Annex 22 (Harmful Factors Subject to Special Health Check- up)	: The following components are listed: Xylene, Ethyl benzene		
	Standard of Industrial Safety and Health Annex 12 (Hazardous substances subject to control)	: The following components are listed: xylene, titanium dioxide, ethyl benzene, copper and its compounds		
В.	Regulation according to (Chemicals Control Act		
	Article 11 (TRI)	: The following components are listed: Xylene including o-,m-,p- isomer, Ethylbenzene, Copper and its compounds		

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Section 15. Regulatory information

	Article 18 Prohibited (K- Reach Article 27)	:	None of the components are listed.
	Article 19 Subject to authorization (K-Reach Article 25)	:	None of the components are listed.
	Article 20 Restricted (K- Reach Article 27)	:	None of the components are listed.
	Article 20 Toxic Chemicals (K-Reach Article 20)	:	Toxic
	Korea inventory	:	All components are listed or exempted.
	Article 39 (Accident Precaution Chemicals)	:	The following components are listed: chloroalkanes(C=14 \sim 17)
C.	Dangerous Materials Safety Management Act	:	Class: Class 4 - Flammable Liquid Item: 4. Class 2 petroleums - Water-insoluble liquid Threshold: 1000 L Danger category: III Signal word: Contact with sources of ignition prohibited
D.	Wastes regulation	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Е.	Regulation according to c	oth	er foreign laws
	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	: 10/27/2023
C.	Version Prepared by	: 9.01 : 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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