# **SAFETY DATA SHEET**



Date of issue 2/6/2024 (month/day/year)

Version 6

## Section 1. Chemical product and company identification

A. Product name : SF CHLORO FINISH 4490(KC)

Product code : 00429367

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

**Product use** : Professional applications, Used by spraying.

Use of the substance/

mixture

: Coating.

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

C. Supplier's or Importer's

information

**Email Address** 

: 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:

### 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

SPECIFIC 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.

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.

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 statements**

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	%
atmethyl carbonate	DIMETHYL CARBONATE	CAS: 616-38-6	20 - <30
Solvent naphtha (petroleum), light aromatic	SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC	CAS: 64742-95-6	10 -<20
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 HYDROCARBONS	CAS: 85535-85-9	1 - <5
iron hydroxide oxide yellow	IRON HYDROXIDE OXIDE	CAS: 51274-00-1	1 - <5
ethylbenzene	ETHYLBENZENE	CAS: 100-41-4	1 - <5
polychloro copper phthalocyanine	COPPER PHTHALOCYANINE GREEN	CAS: 1328-53-6	1 - <5
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
methyl alcohol	METHYL ALCOHOL	CAS: 67-56-1	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

5	ection 4. First aid	ונ	measures
A.	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.
E.	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	:	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)

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### Section 5. Fire-fighting measures

### A. Extinguishing media

Suitable extinguishing

media

Unsuitable extinguishing media : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

: Do not use water jet.

#### B. 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

#### 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. 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.

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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

- 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	<b>Exposure limits</b>
▼ylene	Ministry of Employment and Labor (Republic of Korea, 1/2020). [Xylene (all isomers)]  STEL: 150 ppm 15 minutes.
1,2,4-trimethylbenzene	TWA: 100 ppm 8 hours.  Ministry of Employment and Labor (Republic of Korea, 1/2020). [Trimethyl benzene (mixed isomers)]  TWA: 25 ppm 8 hours.
iron hydroxide oxide yellow	Ministry of Employment and Labor (Republic of Korea, 1/2020). [Iron oxide (Fume, as Fe)]  TWA: 5 mg/m³, (as Fe) 8 hours. Form: Fume

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### Section 8. Exposure controls/personal protection

(Republic of Korea, 1/2020), [Iron oxide as Fe1 TWA: 5 mg/m<sup>3</sup>, (as Fe) 8 hours.

ethylbenzene Ministry of Employment and Labor (Republic of Korea, 1/2020).

STEL: 125 ppm 15 minutes. TWA: 100 ppm 8 hours.

Ministry of Employment and Labor

Ministry of Employment and Labor mesitylene (Republic of Korea, 1/2020). [Trimethyl

> benzene (mixed isomers)] TWA: 25 ppm 8 hours.

Ministry of Employment and Labor cyclohexanone (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.

Ministry of Employment and Labor (Republic of Korea, 1/2020).

TWA: 1000 ppm 8 hours.

Ministry of Employment and Labor (Republic of Korea, 1/2020). Absorbed through skin.

STEL: 250 ppm 15 minutes. TWA: 200 ppm 8 hours.

Recommended monitoring procedures

ethanol

methyl alcohol

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.

B. 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** 

: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

**Eye protection** 

: Chemical splash goggles.

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### Section 8. Exposure controls/personal protection

Hand protection

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: 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

**Gloves** 

: For prolonged or repeated handling, use the following type of gloves:

May be used: nitrile rubber

Recommended: 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** : Liquid.

Color : Not available. B. Odor : Characteristic. : Not available. C. Odor threshold Ha .D : Not applicable. E. Melting/freezing point : Not available. F. Boiling point/boiling : >37.78°C (>100°F)

range G. Flash point

: Closed cup: 30°C (86°F)

H. Evaporation rate : Not available. Flammability (solid, gas) : Not available.

J. Lower and upper **explosive** (flammable)

limits

: Greatest known range: Lower: 4.2% Upper: 12.9% (dimethyl carbonate)

K.	Vapor pressure	:	Vapor Pressure at 20°C Vapor pres		r pressu	re at 50°C			
			Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
			dimethyl carbonate	56.78	7.6	OECD 104			

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### Section 9. Physical and chemical properties

Media Result L. Solubility(ies)

cold water Not soluble

Solubility in water Not available. Vapor density : Not available.

Relative density 1.02

Partition coefficient: n-

octanol/water

: Not applicable.

**Auto-ignition** temperature

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 mm<sup>2</sup>/s (>21 cSt) Viscosity

Flow time (ISO 2431) : Not available. **Molecular weight** : Not applicable.

### Section 10. Stability and reactivity

A. Chemical stability : The product is stable.

**Possibility of hazardous** 

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

**B.** 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.

Depending on conditions, decomposition products may include the following D. Hazardous materials: carbon oxides nitrogen oxides halogenated compounds metal oxide/ decomposition products

oxides

### **Section 11. Toxicological information**

A. Information on the likely routes of exposure

: Not available.

#### Potential acute health effects

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness. May cause respiratory irritation.

Ingestion : Can cause central nervous system (CNS) depression.

Skin contact : Causes skin irritation. Defatting to the skin.

Eve contact : Causes serious eye irritation.

### Over-exposure signs/symptoms

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### **Section 11. Toxicological information**

**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

**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 <sup>3</sup>	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 <sup>3</sup>	4 hours
•	LD50 Oral	Rat	5 g/kg	_
chloroalkanes(C=14~17)	LC50 Inhalation Vapor	Rat	>48.17 g/m <sup>3</sup>	1 hours
(3 ,	LD50 Oral	Rat	>5 g/kg	_
iron hydroxide oxide yellow	LC50 Inhalation Dusts and mists	Rat	>5.05 mg/l	4 hours
	LD50 Oral	Rat	>10 g/kg	_
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
<b>y</b>	LD50 Dermal	Rabbit	17.8 g/kg	_
	LD50 Oral	Rat	3.5 g/kg	_
polychloro copper phthalocyanine	LD50 Oral	Rat	>6400 mg/kg	_
mesitylene	LC50 Inhalation Vapor	Rat	24000 mg/m <sup>3</sup>	4 hours
,	LD50 Oral	Rat	5000 mg/kg	-
propylbenzene	LD50 Oral	Rat	6040 mg/kg	-

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### **Section 11. Toxicological information**

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 <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	12.3 g/kg	-
	LD50 Oral	Rat	2260 mg/kg	-
ethanol	LC50 Inhalation Vapor	Rat	124700 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rat	17100 mg/kg	-
	LD50 Oral	Rat	7 g/kg	-
methyl alcohol	LC50 Inhalation Vapor	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-

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

#### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
▼ylene	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	

**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** 

**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.

**Carcinogenicity** 

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

**Reproductive toxicity** 

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

**Teratogenicity** 

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

#### Specific target organ toxicity (single exposure)

Name	Classification	Route of exposure	Target organs

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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				
mesitylene	Category 3	-	Respiratory tract irritation				
propylbenzene	Category 3	-	Respiratory tract irritation				
cyclohexanone	Category 3	-	Respiratory tract irritation				
methyl alcohol	Category 1	-	-				

#### Specific target organ toxicity (repeated exposure)

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.

: Suspected of causing cancer. Risk of cancer depends on duration and level of Carcinogenicity

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.

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# Section 11. Toxicological information

Chemical name	Identifiers	GHS Classification
dimethyl carbonate	CAS: 616-38-6	FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE 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 FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2
1,2,4-trimethylbenzene	CAS: 95-63-6	EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) -
chloroalkanes(C=14~17)	CAS: 85535-85-9	Category 3 AQUATIC HAZARD (LONG-TERM) - Category 2 TOXIC TO REPRODUCTION - Effects on or via lactation AQUATIC HAZARD (ACUTE) - Category 1
iron hydroxide oxide yellow ethylbenzene	CAS: 51274-00-1 CAS: 100-41-4	AQUATIC HAZARD (LONG-TERM) - Category 1 Not classified. FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 2 ASPIRATION HAZARD - Category 1
polychloro copper phthalocyanine mesitylene	CAS: 1328-53-6 CAS: 108-67-8	AQUATIC HAZARD (LONG-TERM) - Category 3 Not classified. FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
propylbenzene	CAS: 103-65-1	AQUATIC HAZARD (LONG-TERM) - Category 2 FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) -
cyclohexanone	CAS: 108-94-1	Category 3 ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2 FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4

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cumene	CAS: 98-82-8 CAS: 64-17-5	ACUTE TOXICITY (inhalation) - C SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Categ CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOX EXPOSURE) (Respiratory tract irr Category 3 FLAMMABLE LIQUIDS - Category CARCINOGENICITY - Category 2 FLAMMABLE LIQUIDS - Category EYE IRRITATION - Category 2A	ory 1 C KICITY (SINGLE itation) -

CAS: 67-56-1

CARCINOGENICITY - Category 2

EXPOSURE) - Category 1

FLAMMABLE LIQUIDS - Category 2
ACUTE TOXICITY (oral) - Category 3
ACUTE TOXICITY (dermal) - Category 3
ACUTE TOXICITY (inhalation) - Category 3
SPECIFIC TARGET ORGAN TOXICITY (SINGLE

AQUATIC HÁZARD (LÓNG-TERM) - Category 3

# Section 12. Ecological information

### A. **Ecotoxicity**

methyl alcohol

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
iron hydroxide oxide yellow	Acute LC50 >100000 mg/l	Fish	96 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water Chronic NOEC 1 mg/l Fresh water	Daphnia Daphnia - Ceriodaphnia dubia	48 hours
polychloro copper phthalocyanine	Acute LC50 356 mg/l	Fish	96 hours
ethanol methyl alcohol	Acute EC50 7640 mg/l Fresh water Acute LC50 13 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> Fish	48 hours 96 hours

#### B. Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
<b>e</b> thylbenzene	-	79 % - Rea	adily - 10 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis	•	Biodeg	radability
Kylene ethylbenzene ethanol	- - -		-		Readily Readily Readily	

#### C. Bioaccumulative potential

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**Product name SF CHLORO FINISH 4490(KC)** 

### Section 12. Ecological information

Product/ingredient name	LogPow	BCF	Potential
₫methyl 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
ethylbenzene	3.6	79.43	Low
mesitylene	3.42	186.21	Low
propylbenzene	3.69	-	Low
cyclohexanone	0.86	-	Low
cumene	3.55	35.48	Low
ethanol	-0.35	-	Low
methyl alcohol	-0.77	-	Low

D. Mobility in soil

Soil/water partition coefficient (Koc)

Product code 00429367

Not available.

E. Other adverse effects

: 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**

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Costion 44 Transport informati	! a .a	
Product name SF CHLORO FINISH 4490(KC)		
Product code 00429367	Date of issue 2/6/2024 (month/day/year)	Version 6

### Section 14. Transport Information

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

#### **Additional information**

UN : None identified.

**IMDG** : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.

**IATA** : 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 tranportation

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

#### A. 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 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:

Xylene

1,2,4-trimethylbenzene iron hydroxide oxide yellow

ethylbenzene mesitylene

cyclohexanone

cumene ethanol

methyl alcohol

**Annex 19 (Exposure** 

standards established for harmful factors)

ISHA Enforcement Regs : The following components are listed: cyclohexanone, methanol

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### Section 15. Regulatory information

**ISHA** Enforcement Regs

**Annex 21 (Harmful** factors subject to Work

**Environment Measurement)** 

**Annex 22 (Harmful Factors Subject to Special Health Check**up)

Standard of Industrial **Safety and Health Annex 12 (Hazardous** 

substances subject to control)

: The following components are listed: xylene, iron oxide, ethyl benzene

ISHA Enforcement Regs : The following components are listed: Xylene, Iron oxide (dust, fume), Ethyl benzene

: The following components are listed: xylene, iron and its compounds, ethyl benzene,

copper and its compounds

B. 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

**Article 18 Prohibited (K-**

Reach Article 27)

**Article 19 Subject to** authorization (K-Reach

Article 25)

: None of the components are listed.

: None of the components are listed.

: None of the components are listed.

**Article 20 Restricted (K-**

Reach Article 27)

**Article 20 Toxic** 

**Chemicals (K-Reach** Article 20)

: All components are listed or exempted. **Korea inventory** 

**Article 39 (Accident Precaution Chemicals**)

C. Dangerous Materials **Safety Management Act** 

: Class: Class 4 - Flammable Liquid

: Toxic

Item: 4. Class 2 petroleums - Water-insoluble liquid

Threshold: 1000 L Danger category: III

Signal word: Contact with sources of ignition prohibited

: The following components are listed: chloroalkanes( $C=14\sim17$ )

D. Wastes regulation : Dispose of contents and container in accordance with all local, regional, national

and international regulations.

E. Regulation according to other 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).

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### Section 16. Other information

A. 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.

B. Date of issue/Date of

revision

: 2/6/2024

C. Version : 6
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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