# **SAFETY DATA SHEET**



Date of issue 11/1/2022 (month/day/year)

Version 10

## Section 1. Chemical product and company identification

A. Product name : SF CHLORO FINISH GREEN 4171

Product code : 00327585

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:

: +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

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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**Product name SF CHLORO FINISH GREEN 4171** 

## 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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#### **Product name SF CHLORO FINISH GREEN 4171**

## 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
titanium dioxide	TITANIUM DIOXIDE	CAS: 13463-67-7	5 - <10
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		
ethylbenzene	ETHYLBENZENE	CAS: 100-41-4	1 - <5
2-methoxy-1-methylethyl acetate	1-METHOXY-2-PROPYL ACETATE	CAS: 108-65-6	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

A. Eye	Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.

B. 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 : 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.

See toxicological information (Section 11)

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## Section 5. Fire-fighting measures

## A. Extinguishing media

Product code 00327585

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

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. 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.

#### 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

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## Section 6. Accidental release measures

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
Kylene	Ministry of Employment and Labor (Republic of Korea, 1/2020). [Xylene] STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours.
titanium dioxide	Ministry of Employment and Labor (Republic of Korea, 1/2020).  TWA: 10 mg/m³ 8 hours. Form: total dust
1,2,4-trimethylbenzene	with less than 1% of free SiO2  Ministry of Employment and Labor (Republic of Korea, 1/2020). [Trimethyl benzene]
ethylbenzene	TWA: 25 ppm 8 hours.  Ministry of Employment and Labor (Republic of Korea, 1/2020).
mesitylene	STEL: 125 ppm 15 minutes. TWA: 100 ppm 8 hours. Ministry of Employment and Labor (Republic of Korea, 1/2020). [Trimethyl
cyclohexanone	benzene] TWA: 25 ppm 8 hours. Ministry of Employment and Labor (Republic of Korea, 1/2020). Absorbed

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## Section 8. Exposure controls/personal protection

TWA: 25 ppm 8 hours. STEL: 50 ppm 15 minutes.

cumene Ministry of Employment and Labor

(Republic of Korea, 1/2020). Absorbed

through skin.

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

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

controls

B. Appropriate engineering : 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 Hand protection**  : Chemical splash goggles.

: 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: Chloroprene, nitrile rubber

Recommended: butyl rubber, polyvinyl alcohol (PVA), Viton®

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## Section 8. Exposure controls/personal protection

**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 Green. B. Odor : Aromatic. C. Odor threshold : Not available. D. pH : Not applicable. E. Melting/freezing point : Not available. F. Boiling point/boiling : >37.78°C (>100°F)

range

G. Flash point : Closed cup: 28°C (82.4°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 pressure at 50		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
dimethyl carbonate	56.78	7.6	OECD 104			

L. Solubility(ies)

Media Result cold water Not soluble

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

Relative density : 1.07

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	

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## Section 9. Physical and chemical properties

Q. Decomposition temperature

: Not available.

**Viscosity** 

: Kinematic (40°C (104°F)): >21 mm<sup>2</sup>/s (>21 cSt)

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.

D. Hazardous decomposition products

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

## **Section 11. Toxicological information**

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.

**Eye contact** : Causes serious eye irritation.

#### Over-exposure signs/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

**Ingestion** : Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

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## **Section 11. Toxicological information**

**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
methyl 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	-
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	-
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
(0 ,	LD50 Oral	Rat	>5 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	-
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	-
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	-
cyclohexanone	LC50 Inhalation Gas.	Rat	8000 ppm	4 hours
	LC50 Inhalation Vapor	Rat	11 mg/l	4 hours
	LD50 Dermal	Rabbit	1100 mg/kg	-
	LD50 Oral	Rat	1.62 g/kg	-
cumene	LC50 Inhalation Vapor	Rat	39000 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	12.3 g/kg	-
	LD50 Oral	Rat	1400 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	-

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## **Section 11. Toxicological information**

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

#### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
<b>X</b> 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
<mark>d</mark> imethyl 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
Methyl alcohol	Category 1	-	-

Specific target organ toxicity (repeated exposure)

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## **Section 11. Toxicological information**

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

#### **Aspiration hazard**

Name	Result
	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. 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
₫methyl 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
		SKIN IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2
Xylene	CAS: 1330-20-7	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 (REPEATED EXPOSURE) - Category 1
titanium dioxide 1,2,4-trimethylbenzene	CAS: 13463-67-7 CAS: 95-63-6	CARCINOGENICITY - Category 2 FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4

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# Section 11. Toxicological information

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		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
		AQUATIC HAZARD (ACUTE) - Category 1
-41 11	CAS: 100-41-4	AQUATIC HAZARD (LONG-TERM) - Category 1
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
2-methoxy-1-methylethyl acetate	CAS: 108-65-6	FLAMMABLE LIQUIDS - Category 3
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE
mositylone	CAS: 108-67-8	EXPOSURE) (Narcotic effects) - Category 3 FLAMMABLE LIQUIDS - Category 3
mesitylene	CAS. 100-07-0	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
		ACUTE TOXICITY (oral) - Category 4
		ACUTE TOXICITY (dermal) - Category 4
		ACUTE TOXICITY (inhalation) - Category 4
		SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1
		GERM CELL MUTAGENICITY - Category 2
		CARCINOGENICITY - Category 2
cumene	CAS: 98-82-8	FLAMMABLE LIQUIDS - Category 3
		ACUTE TOXICITY (oral) - Category 4
athoral	CAC: 64 47 5	CARCINOGENICITY - Category 2
ethanol	CAS: 64-17-5	FLAMMABLE LIQUIDS - Category 2
		EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2
Methyl alcohol	CAS: 67-56-1	FLAMMABLE LIQUIDS - Category 2
		ACUTE TOXICITY (oral) - Category 3
		ACUTE TOXICITY (dermal) - Category 3
		ACUTE TOXICITY (inhalation) - Category 3
		EYE IRRITATION - Category 2A
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1
		AQUATIC HAZARD (LONG-TERM) - Category 3
		/ (45, (116 1) LE (116 (LE (116)) Category o

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**Product name SF CHLORO FINISH GREEN 4171** 

## **Section 12. Ecological information**

## A. **Ecotoxicity**

Product code 00327585

Product/ingredient name	Result	Species	Exposure
methyl 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 - Daphnia magna	48 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
2-methoxy-1-methylethyl acetate	Acute LC50 134 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
ethanol Methyl alcohol	Acute EC50 7640 mg/l Fresh water Acute LC50 13 mg/l Fresh water	Daphnia - Daphnia magna Fish	48 hours 96 hours

#### B. Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
ethylbenzene 2-methoxy-1-methylethyl acetate		79 % - Readily - 10 days 83 % - Readily - 28 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
	-	-	Readily
ethylbenzene	-	-	Readily
2-methoxy-1-methylethyl	-	-	Readily
acetate			
ethanol	-	-	Readily

#### C. Bioaccumulative potential

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
2-methoxy-1-methylethyl	1.2	-	low
acetate			
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)

: Not available.

E. Other adverse effects : No known significant effects or critical hazards.

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## **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	IATA
A. UN number	UN1263	UN1263	UN1263
B. UN proper shipping name	PAINT	PAINT	PAINT
C. Transport hazard class(es)	3	3	3
D. Packing group	III	III	III
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 ≤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 transportation

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

Transport in bulk according: Not applicable.

to IMO instruments

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## **Section 15. Regulatory information**

## A. 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** 

: It is not allowed to sell to persons under the age of 19.

to Youth

#### **Exposure Limits of Chemical Substances and Physical Factors**

The following components have an OEL:

Xylene

titanium dioxide

1,2,4-trimethylbenzene

ethylbenzene

mesitylene

cyclohexanone

cumene

ethanol

Methyl alcohol

**Measurement)** 

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

**Annex 19 (Exposure** standards established for harmful factors)

**ISHA Enforcement Regs** 

**Annex 21 (Harmful** 

factors subject to Work **Environment** 

ISHA Enforcement Regs : The following components are listed: Xylene, Ethyl benzene

**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, titanium dioxide, ethyl benzene

: The following components are listed: xylene, titanium dioxide, ethyl benzene

## B. Regulation according to Chemicals Control Act

Article 11 (TRI) : The following components are listed: Xylene including o-,m-,p- isomer, Ethylbenzene

Article 18 Prohibited (K-

**Reach Article 27)** 

: None of the components are listed.

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

: None of the components are listed.

Article 25)

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**Product name SF CHLORO FINISH GREEN 4171** 

## Section 15. Regulatory information

: Toxic

**Reach Article 27)** 

Article 20 Restricted (K- : None of the components are listed.

**Article 20 Toxic** 

**Korea inventory** 

Chemicals (K-Reach

Article 20)

: All components are listed or exempted.

**Article 39 (Accident Precaution Chemicals**) : The following components are listed: chloroalkanes(C=14~17) and mixtures which

contain 1% or more

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.

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).

## 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

: 11/1/2022

C. Version : 10 **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 quarantee 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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