# SAFETY DATA SHEET

SIGMA ECOFLEET 530 SPRUCEGREEN



## Date of issue 14 November 2023

Version 3

1. Product and company identification		
Product name	: SIGMA ECOFLEET 530 SPRUCEGREEN	
Product code	: 000001175595	
Other means of identification	: 00164865	
Product type	: Liquid.	
Relevant identified uses	of the substance or mixture and uses advised against	
Product use	: Professional applications, Used by spraying.	
Use of the substance/ mixture	: Antifouling products	
Uses advised against	: Not applicable.	
Supplier's details	: PPG PMC Japan Co., Ltd., 8F, Shintetsu Bldg., 1-1, Daikaidori 1-chome, Kobe 652-0803 Japan; Tel: +81-78-574-2777	
Emergency telephone number	: 078 574 2777	

# 2. Hazards identification

ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2 RESPIRATORY SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1 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 HAZARDOUS TO THE AQUATIC ENVIRONMENT - ACUTE HAZARD - Category HAZARDOUS TO THE AQUATIC ENVIRONMENT - CHRONIC HAZARD - Category 1	
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GHS label elements	
Hazard pictograms :	
Signal word : Danger	
Japan Page: 1/1	7

2. Hazards identifi	Ca	ation
Hazard statements	:	<ul> <li>Fammable liquid and vapor.</li> <li>Harmful if swallowed or if inhaled.</li> <li>Causes skin irritation.</li> <li>May cause an allergic skin reaction.</li> <li>Causes serious eye irritation.</li> <li>May cause allergy or asthma symptoms or breathing difficulties if inhaled.</li> <li>May cause allergy or asthma symptoms or breathing difficulties if inhaled.</li> <li>May cause respiratory irritation.</li> <li>May cause drowsiness or dizziness.</li> <li>Suspected of causing cancer.</li> <li>May damage fertility or the unborn child.</li> <li>Causes damage to organs. (central nervous system (CNS), kidneys, liver, respiratory organs, systemic toxicity, whole body)</li> <li>Causes damage to organs through prolonged or repeated exposure. (hearing organs, nervous system, respiratory organs)</li> <li>Very toxic to aquatic life with long lasting effects.</li> </ul>
Precautionary statements		5 5 5
Prevention	:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Wear respiratory protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.
Response	:	Collect spillage. IF exposed or concerned: Call a POISON CENTER or doctor. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. If experiencing respiratory symptoms: Call a POISON CENTER or doctor. IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.
Storage	:	Store locked up. Store in a well-ventilated place. Keep container tightly closed.
Disposal	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Other hazards which do not result in classification	:	Prolonged or repeated contact may dry skin and cause irritation.

# 3. Composition/information on ingredients

Substance/mixture

: Mixture

### **CAS number/other identifiers**

CAS number	: Not applicable.
CSCL number	: Not available.

### Product name SIGMA ECOFLEET 530 SPRUCEGREEN

# 3. Composition/information on ingredients

Ingredient name	%	CAS number	CSCL
dícopper oxide	25 - <50	1317-39-1	1-297
Xylene	10 - <12.5	1330-20-7	3-3; 3-60
Zinc oxide	10 - <12.5	1314-13-2	1-561
Rosin	10 - <12.5	8050-09-7	7-935
5-Methyl-2-hexanone	7 - <10	110-12-3	2-542
4,5-dichloro-2-octyl-2H-isothiazol-3-one	2 - <3	64359-81-5	5-6165
Talc containing no asbestos or quartz	2 - <3	14807-96-6	Not available.
Ethylbenzene	2 - <3	100-41-4	3-28; 3-60
titanium dioxide (excluding nanoparticle)	1 - <2	13463-67-7	1-558; 5-5225
copper(II) oxide	1 - <2	1317-38-0	1-297
Copper	0.5 - <1	7440-50-8	Not available.
Reaction products of 12-hydroxyoctadecanoic	0.5 - <1	911674-82-3	Not available.
acid and octadecanoic acid and			
1,3-phenylenedimethanamine			
Cashew, nutshell liq.	0.5 - <1	8007-24-7	Not available.

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

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

SUB codes represent substances without registered CAS Numbers.

# 4. First aid measures

# Description of necessary first aid measures

Eye contact	<ul> <li>Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.</li> </ul>
Inhalation	<ul> <li>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.</li> </ul>
Skin contact	<ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.</li> </ul>
Ingestion	<ul> <li>If swallowed, seek medical advice immediately and show this container or label.</li> <li>Keep person warm and at rest. Do NOT induce vomiting.</li> </ul>

Most important symptoms/et	fects, acute and delayed
Potential acute health effec	<u>ts</u>
Eye contact	: Causes serious eye irritation.
Inhalation	: Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin contact	: Causes damage to organs following a single exposure in contact with skin. Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	<ul> <li>Harmful if swallowed. Causes damage to organs following a single exposure if swallowed. Can cause central nervous system (CNS) depression.</li> </ul>
Over-exposure signs/symp	ioms
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness

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4. First aid measu	ires
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing wheezing and breathing difficulties asthma nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness 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
Ingestion	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Indication of immediate me	dical attention and special treatment needed, if necessary
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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

# 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
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.

# 5. Fire-fighting measures

Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides halogenated compounds metal oxide/oxides oxides of lead
Special protective actions for fire-fighters	: 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.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

# 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: 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.
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
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.

#### Methods and materials for containment and cleaning up

	Containing ap
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# 7. Handling and storage

Precautions for safe : handling	Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. 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.
Conditions for safe storage :	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

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.

# 8. Exposure controls/personal protection

### **Control parameters**

#### **Occupational exposure limits**

Ingredient name	Exposure limits
dicopper oxide	Japan Society for Occupational Health
	(Japan, 9/2022). [Copper and compounds]
Yedana -	Skin sensitizer.
Xylene	Industrial Safety and Health Act (Japan, 6/2020). [xylene]
	TWA: 50 ppm 8 hours.
	Japan Society for Occupational Health
	(Japan, 9/2022).
	OEL-M: 50 ppm 8 hours.
	OEL-M: 217 mg/m <sup>3</sup> 8 hours.
Rosin	Japan Society for Occupational Health
	(Japan, 9/2022). Skin sensitizer.
	Inhalation sensitizer.
Talc containing no asbestos or quartz	Japan Society for Occupational Health
	(Japan, 9/2022). [Class 1 dusts (Activated
	charcoal, Alumina, Aluminium, Bentonite,
	Diatomite, Graphite, Kaolinite, Pagodite, Pyrites, Pyrite cinder, Talc)]
	OEL-M: 0.5 mg/m <sup>3</sup> 8 hours. Form:
	Respirable dust (Class 1 Dust)
	OEL-M: 2 mg/m <sup>3</sup> 8 hours. Form: Total dust
	(Class 1 Dust)
Ethylbenzene	Japan Society for Occupational Health
	(Japan, 9/2022). Absorbed through skin.
	OEL-M: 87 mg/m <sup>3</sup> 8 hours.
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# 8. Exposure controls/personal protection

	OEL-M: 20 ppm 8 hours. Industrial Safety and Health Act (Japan,
copper(II) oxide	6/2020). TWA: 20 ppm 8 hours. Japan Society for Occupational Health
Copper	(Japan, 9/2022). [Copper and compounds] Skin sensitizer. Japan Society for Occupational Health
	(Japan, 9/2022). [Copper and compounds] Skin sensitizer.

# **Recommended monitoring** : 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.

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

ontrols 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.

### Individual protection measures

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. Eye protection : Chemical splash goggles and face shield. Skin protection Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. : butyl rubber Gloves **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. **Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

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# 8. Exposure controls/personal protection

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.

# 9. Physical and chemical properties

<u>Appearance</u>			
Physical state	: Liquid.		
Color	: Green.		
Odor	: Aromatic.		
Boiling point	: >37.78°C (>100°F)		
Flash point	: 🗭losed cup: 30°C (	36°F)	
Relative density	: 1.81		
	Media	Result	
Solubility(ies)	cold water	Not soluble	

10. Stability and r	reactivity
Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products.
Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
Hazardous decomposition products	: Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides halogenated compounds metal oxide/oxides

# **11. Toxicological information**

Information on toxicological effects Acute toxicity

# Product name SIGMA ECOFLEET 530 SPRUCEGREE

# **11. Toxicological information**

Product/ingredient name	Result	Species	Dose	Exposure
dicopper oxide	LC50 Inhalation Dusts and mists	Rat	3.34 mg/l	4 hours
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	500 mg/kg	-
Xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
Zinc oxide	LC50 Inhalation Dusts and mists	Rat	>5700 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Rosin	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	7600 mg/kg	-
5-Methyl-2-hexanone	LC50 Inhalation Gas.	Rat	5000 ppm	4 hours
-	LD50 Dermal	Rabbit	8.14 g/kg	-
	LD50 Oral	Rat	5657 mg/kg	-
4,5-dichloro-2-octyl-2H- isothiazol-3-one	LC50 Inhalation Dusts and mists	Rat	0.16 mg/l	4 hours
	LD50 Dermal	Rabbit	3.9 g/kg	-
	LD50 Oral	Rat	567 mg/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	-
titanium dioxide (excluding nanoparticle)	LC50 Inhalation Dusts and mists	Rat	>6.82 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
copper(II) oxide	LD50 Oral	Rat	>2000 mg/kg	-
Copper	LC50 Inhalation Dusts and mists	Rat	>5.11 mg/l	4 hours
Reaction products of	LC50 Inhalation Dusts and mists	Rat	>5.08 mg/l	4 hours
12-hydroxyoctadecanoic			J.	
acid and octadecanoic acid				
and				
1,3-phenylenedimethanamine				

## Irritation/Corrosion

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

# **Sensitization**

Not available.

#### **Mutagenicity**

Not available.

#### **Carcinogenicity**

Not available.

#### Reproductive toxicity

Product/ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure
5-Methyl-2-hexanone	-	-	Equivocal		Inhalation: 1250 ppm	

# **Teratogenicity**

Not available.

### Specific target organ toxicity (single exposure)

# 11. Toxicological information

Name	Category	Route of exposure	Target organs
dícopper oxide	Category 1	-	whole body
	Category 3		Respiratory tract irritation
Xylene	Category 1	-	central nervous system (CNS), kidneys, liver, respiratory organs
	Category 3		Narcotic effects
Zinc oxide	Category 1	-	respiratory organs, systemic toxicity
Rosin	Category 3	-	Respiratory tract irritation
5-Methyl-2-hexanone	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
4,5-dichloro-2-octyl-2H-isothiazol-3-one	Category 1 Category 3	-	respiratory organs Narcotic effects
Talc containing no asbestos or quartz	Category 1	-	respiratory organs
Ethylbenzene	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
copper(II) oxide	Category 1	-	systemic toxicity
	Category 3		Respiratory tract irritation
Copper	Category 1	-	digestive organs
	Category 3		Respiratory tract irritation

## Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
<b>X</b> ylene	Category 1	-	nervous system, respiratory organs
5-Methyl-2-hexanone	Category 2	-	central nervous system (CNS), kidneys, respiratory organs
4,5-dichloro-2-octyl-2H-isothiazol-3-one	Category 1	-	respiratory organs
Talc containing no asbestos or quartz	Category 1	-	respiratory organs
Ethylbenzene	Category 1	-	hearing organs, nervous system
titanium dioxide (excluding nanoparticle)	Category 1	-	respiratory organs

#### Aspiration hazard

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

### Information on the likely : Not available.

### routes of exposure

# Potential acute health effects

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

11. Toxicological information

Skin contact       : Causes damage to organs following a single exposure in contact with skin. Causes skin irritation. Defailing to the skin. May cause an altergic skin reaction.         Ingestion       : Harmful if wallowed. Can cause central nervous system (CNS) depression.         Symptoms rolated to the physical, chemical and toxicological characteristics         Eye contact       : Adverse symptoms may include the following: pain or irritation watering reduces         in a single exposure if swallowed. Cause can any include the following: reduces         in a single exposure if a swallowed. Cause can any include the following: reduces         in a single exposure if a swallowed. Cause can all to include the following: reduces         in a single exposure if a swallowed. Cause can all to include the following: reduces if the all deaths is a skeletal maformations         Skin contact       : Adverse symptoms may include the following: increase in fetal deaths is skeletal maformations         Skin contact       : Adverse symptoms may include the following: increase in fetal deaths is skeletal maformations         Skin contact       : Adverse symptoms may include the following: increase in fetal deaths is skeletal maformations         Delayed and immediate effects and also chronic effects from short and long term exposure         Short term exposure       : Not available.         Potential immediate       : Not available.         Potential immediate       : Not available.         Potential delayed effects       <	Inhalation	: Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Ingestion       : Harmful if swallowed. Causes damage to organs following a single exposure if swallowed. Can cause central nervous system (CNS) depression.         Symptoms related to the physical, chemical and toxicological characteristics         Eye contact       : Adverse symptoms may include the following: pain or irritation watering respiratory track irritation coughing wheezing and breathing difficulties asthma nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations         Skin contact       : Adverse symptoms may include the following: irritation coughing wheezing and breathing difficulties asthma nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness sceletal weight increase in fetal deaths skeletal malformations         Skin contact       : Adverse symptoms may include the following: irritation rediness dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations         Ingestion       : Adverse symptoms may include the following: irritation rediness in fetal deaths skeletal malformations         Delayed and immediate effects and also chronic offacts from short and long term exposure         Potontial immediate       : Not available.         effects       : Not available.	Skin contact	: Causes damage to organs following a single exposure in contact with skin. Causes
Eye contact       : Adverse symptoms may include the following: pain or irritation watering redness         Inhalation       : Adverse symptoms may include the following: respiratory tract irritation coughing wheezing and breathing difficulties astima natusea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations         Skin contact       : Adverse symptoms may include the following: irritation reduced fetal weight increase in fetal deaths skeletal malformations         Ingestion       : Adverse symptoms may include the following: irritation 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         Delayed and immediate offects and also chronic offects from short and long term exposure         Short term exposure Potential immediate       : Not available.         Potential immediate       : Not available.         Long term exposure Potential immediate       : Not available.         Potential immediate effects       : Not available.         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 dematitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.         Carcinogenicity       : Suspected of causing cancer. Risk of cancer depends on duration and level of exposur	Ingestion	
Inhalation       pain or irritation         watering       redness         Inhalation       : Adverse symptoms may include the following:         respiratory tract irritation       coughing         wheezing and breathing difficulties       astimma         nausea or vomiting       headache         headache       drowsiness/fatigue         dizziness/vertigo       unconsolicusness         reduced fetal weight       increase in fetal deaths         skeletal maformations       skeletal maformations         Skin contact       : Adverse symptoms may include the following:         increase in fetal deaths       skeletal maformations         Ingestion       : Adverse symptoms may include the following:         reduced fetal weight       increase in fetal deaths         skeletal maformations       :         Delayed and immediate effects and also chronic effects from short and long term exposure         Short term exposure       :         Potential immediate       :         Potential immediate       :         Iong term exposure       :         Potential immediate       :         Potential immediate       :         Potential immediate       :         Potential delayed effects       :	Symptoms related to the pl	hysical, chemical and toxicological characteristics
respiratory tract irritation       oughing         wheezing and breathing difficulties         asthma         nauses or vomiting         headache         drowsiness/fatigue         dizziness/vertigo         unconsciousness         reduced fetal weight         increase in fetal deaths         skeletal malformations         Skin contact       : Adverse symptoms may include the following: irritation reduces in fetal deaths         skeletal malformations         Ingestion       : Adverse symptoms may include the following: 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         Delayed and immediate effects and also chronic effects from short and long term exposure         Short term exposure         Potential immediate       : Not available.         Long term exposure         Potential delayed effects       : Not available.         Long term exposure         Potential delayed effects       : Not available.         Potential delayed effects       : Not available.         Potential delayed effects       : Not available.         Potential delayed effects       :	Eye contact	pain or irritation watering
irritation       irritation         redness       dryness         cracking       reduced fetal weight         increase in fetal deaths       skeletal malformations         Ingestion       : Adverse symptoms may include the following:         reduced fetal weight       increase in fetal deaths         increase in fetal deaths       skeletal malformations         Delayed and immediate effects and also chronic effects from short and long term exposure         Short term exposure         Potential immediate       : Not available.         effects       : Not available.         Long term exposure         Potential delayed effects       : Not available.         effects       : Not available.         Potential immediate       : Not available.         effects       : Not available.         Potential immediate       : Not available.         effects       : Not available.         Potential delayed effects       : Not available.         Potential immediate       : Not available.         Potential chronic health effects       : General         : Causes damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low l	Inhalation	respiratory tract irritation coughing wheezing and breathing difficulties asthma nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths
reduced fetal weight increase in fetal deaths skeletal malformations Delayed and immediate effects and also chronic effects from short and long term exposure Short term exposure Potential immediate in Not available. effects Potential delayed effects in Not available. Long term exposure Potential immediate in Not available. Long term exposure Potential delayed effects in Not available. effects Potential delayed effects in Not available. Potential delayed effects in Not available. Potential delayed effects in Not available. Potential chronic health effects General in Causes damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. Carcinogenicity Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.	Skin contact	irritation redness dryness cracking reduced fetal weight increase in fetal deaths
Short term exposure         Potential immediate       : Not available.         effects         Potential delayed effects       : Not available.         Long term exposure         Potential immediate       : Not available.         effects         Potential delayed effects       : Not available.         effects         Potential delayed effects       : Not available.         effects       : Not available.         Potential chronic health effects       : Not available.         General       : Causes damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.         Carcinogenicity       : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.	Ingestion	reduced fetal weight increase in fetal deaths
Potential immediate effects: Not available.Potential delayed effects: Not available.Long term exposure.Potential immediate effects: Not available.Potential delayed effects: Not available.Potential delayed effects: Not available.Potential chronic health effects: Not available.Potential chronic health effects: Not available.General: Causes damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.Carcinogenicity: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.	Delayed and immediate effect	cts and also chronic effects from short and long term exposure
effects       Potential delayed effects       : Not available.         Long term exposure       Potential immediate       : Not available.         Potential delayed effects       : Not available.         Potential delayed effects       : Not available.         Potential chronic health effects       : Not available.         General       : Causes damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.         Carcinogenicity       : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.	Short term exposure	
Long term exposure         Potential immediate       : Not available.         effects       : Not available.         Potential delayed effects       : Not available.         Potential chronic health effects       : Not available.         General       : Causes damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.         Carcinogenicity       : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.		: Not available.
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effects         Potential delayed effects       : Not available.         Potential chronic health effects         General       : Causes damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.         Carcinogenicity       : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.	Long term exposure	
Potential chronic health effects         General       : Causes damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.         Carcinogenicity       : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.		: Not available.
General: Causes damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.Carcinogenicity: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.	Potential delayed effects	: Not available.
<ul> <li>repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.</li> <li>Carcinogenicity : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.</li> </ul>	Potential chronic health eff	fects
exposure.	General	repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed
Japan Page: 11/17	Carcinogenicity	
		Japan Page: 11/17

# Product name SIGMA ECOFLEET 530 SPRUCEGREEN

# 11. Toxicological information

- Mutagenicity
- : No known significant effects or critical hazards.
- **Reproductive toxicity** : May damage fertility or the unborn child.

### Numerical measures of toxicity

#### Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
SIGMA ECOFLEET 530 SPRUCEGREEN	1267.3	14414.9	N/A	54.1	3.8
dicopper oxide	500	2500	N/A	N/A	3.34
Xylene	4300	1700	N/A	11	N/A
Zinc oxide	N/A	2500	N/A	N/A	N/A
Rosin	7600	2500	N/A	N/A	N/A
5-Methyl-2-hexanone	5657	8140	N/A	11	N/A
4,5-dichloro-2-octyl-2H-isothiazol-3-one	567	3900	N/A	N/A	0.16
Ethylbenzene	3500	17800	N/A	17.8	N/A
copper(II) oxide	2500	N/A	N/A	N/A	N/A
Cashew, nutshell liq.	500	1100	N/A	N/A	N/A

### Other 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.

# **12. Ecological information**

#### <u>Toxicity</u>

Product/ingredient name	Result	Species	Exposure
dicopper oxide	LC50 0.003 mg/l	Fish	96 hours
Zinc oxide	Acute EC50 0.17 mg/l	Algae	72 hours
	Acute EC50 0.481 mg/l Fresh water	Daphnia - <i>Daphnia magna -</i> Neonate	48 hours
	Chronic NOEC 0.017 mg/l Fresh water	Algae	72 hours
5-Methyl-2-hexanone	Acute LC50 159 mg/l	Fish	96 hours
4,5-dichloro-2-octyl-2H- isothiazol-3-one	Acute EC50 267.368 µg/l Marine water	Algae - <i>Nitzschia pungens</i>	96 hours
	Acute LC50 0.318 mg/l Marine water	Crustaceans - Artemia sp.	48 hours
	Acute LC50 0.0027 mg/l Fresh water	Fish	96 hours
	Chronic NOEC 19.789 µg/l Marine water	Algae - <i>Nitzschia pungens</i>	96 hours
	Chronic NOEC 0.00056 mg/l Fresh water	Fish	97 days
Ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
,	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
titanium dioxide (excluding nanoparticle)	Acute LC50 >100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
Copper	Acute LC50 810 ppb	Fish	96 hours
Reaction products of 12-hydroxyoctadecanoic acid and octadecanoic acid and	Acute LC50 >100 mg/l	Fish	96 hours
1,3-phenylenedimethanamine			

# **12. Ecological information**

### Persistence/degradability

Product/ingredient name	Test	Result		Dose		Inoculum
Methyl-2-hexanone Ethylbenzene	OECD 301D -	67 % - Readily - 28 days 79 % - Readily - 10 days				-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	<b>radability</b>
₩ylene 5-Methyl-2-hexanone Ethylbenzene	- - -		- - -		Readily Readily Readily	/

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
<b>X</b> ylene	3.12	7.4 to 18.5	Low
Rosin	1.9 to 7.7	-	High
5-Methyl-2-hexanone	1.88	-	Low
Ethylbenzene	3.6	79.43	Low
Cashew, nutshell liq.	>4.78	-	High

<u>Mobility in soil</u>	
Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.
Other adverse effects	: No known significant effects or critical hazards.

# 13. Disposal considerations

Disposal mathada	. The generation of waste should be sweided or minimized wherever pessible
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. 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.

# 14. Transport information

# 14. Transport information

•			
	UN	IMDG	ΙΑΤΑ
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class(es)	3	3	3
Packing group			
Environmental hazards	Yes. The environmentally hazardous substance mark is not required.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	(dicopper oxide, zinc oxide)	Not applicable.

### **Additional information**

UN

IMDG

ΙΑΤΑ

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

Special precautions for user : 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

# 15. Regulatory information

### **Fire Service Law**

	Category	Substance name/Type	Danger category	Signal word	Designated quantity
-	Category IV	Class II petroleums	111	Flammable - Keep Fire Away	1000 L

## Pollutant Release and Transfer Registers (PRTR)

Ingredient name	%	Status	Reference number
▼ylene 4,5-Dichloro-2-octylisothiazol-3(2H)-one Ethylbenzene	12 2.5 2.1		80 633 53

## **Industrial Safety and Health Act**

# Ordinance on the Prevention of the Hazard due to Specified Chemical Substances

Ingredient name	%		Reference number
Ethyl benzene		Group-2 Substances under Supervision	3-3

## Substance(s) requiring labelling

Product name SIGMA ECOFLEET 530 SPRUCEGREEN

# 15. Regulatory information

Ingredient name	%	Status	Reference number
Copper and its compounds	≥40 - ≤50	Listed	379
Xylene	≥10 - ≤20	Listed	136
Zinc oxide	≥10 - ≤20	Listed	188
Rosin	≥10 - ≤20	Listed	632
5-Methyl-2-hexanone	≤10	Listed	591
Ethylbenzene	≤10	Listed	70
Titanium(IV) oxide	≤10	Listed	191

# **Chemicals requiring notification**

Ingredient name	%	Status	Reference number
Copper and its compounds	≥40 - ≤50	Listed	379
Xylene	≥10 - ≤20	Listed	136
Zinc oxide	≥10 - ≤20	Listed	188
Rosin	≥10 - ≤20	Listed	632
5-Methyl-2-hexanone	≤10	Listed	591
Ethylbenzene	≤10	Listed	70
Titanium(IV) oxide	≤10	Listed	191

Carcinogens based on Article 577-2 of the Ordinance or	<u>1 ISH</u>		
Ingredient name	%		Reference number
ethylbenzene	≤10	Listed	-

#### <u>Mutagen</u>

Ingredient name	%	Status	Reference
			number
4,5-dichloro-2-n-octylisothiazol-3-one	≤10	Listed	-

Corrosive liquid	: Not listed
Occupational Safety and Health Law	: Inflammable, Combustible
Regulations on the Prevention of Tetraalkyl Lead Poisoning	: Not listed
Harmful Substances Subject to Obtaining Permission for Manufacturing	: Not listed
Harmful Substances, Prohibited for Manufacturing	: Not listed
ISHL Enforcement Order Appendix 1 - Dangerous Substances	: Inflammable, Combustible
Lead regulation	: Not listed
Organic solvents poisoning prevention	: Class 2

# Poisonous and Deleterious Substances

None of the components are listed.

# Product name SIGMA ECOFLEET 530 SPRUCEGREE

# 15. Regulatory information

# Chemical Substances Control Law (CSCL)

Ingredient name	%	Status	Reference number
<b>X</b> ylene	≥10 - ≤20	Priority assessment	125
4,5-Dichloro-2-octylisothiazol-3(2H)-one	≤10	Priority assessment	221
Ethylbenzene	≤10	Priority assessment	50
Toluene	≤10	Priority assessment	46
Methyl isobutyl ketone	≤10	Priority assessment	116
Benzene	≤10	Priority assessment	45
Salt of N,N,N-trimethyldodecane-1-aminium	≤10	Priority assessment	229
N,N-Dimethyldodecylamine	≤10	Priority assessment	165
2,2,4,4,6,6,8,8-Octamethyl-	≤10	Monitoring	40
1,3,5,7,2,4,6,8-tetraoxatetrasilocane		Ŭ	

High Pressure Gas Control : Not available.

Law

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Explosives Control Law
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None of the components are listed.

Law concerning prevention : Not available. of pollution of the ocean

## Maritime Safety Law

# Notification Regulating Transportation of Dangerous Materials by Sea

None of the components are listed.

### **Container class**

None of the components are listed.

JSOH Carcinogen	: Group 1
List of Specially Controlled Industrial Waste	: Not listed
Japan inventory	: All components are listed or exempted.
Road law	: Not available.

# 16. Other information

<u>History</u>	
Date of issue/Date of revision	: 14 November 2023
Date of previous issue	: 3/29/2023
Version	: 3
Prepared by	: EHS
Key to abbreviations	<ul> <li>ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway</li> <li>ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road</li> <li>ATE = Acute Toxicity Estimate</li> <li>BCF = Bioconcentration Factor</li> <li>GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association</li> <li>IMDG = International Maritime Dangerous Goods</li> <li>LogPow = logarithm of the octanol/water partition coefficient</li> </ul>
	Japan Page: 16/17

# 16. Other information

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail UN = United Nations

**V** Indicates information that has changed from previously issued version.

#### Notice to reader

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.