# SAFETY DATA SHEET

SIGMA ECOFLEET 530 BLUE



#### Date of issue 16 December 2024

Version 30

## 1. Product and company identification

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Product name	: SIGMA ECOFLEET 530 BLUE	
Product code	: 00230906	
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	: Coating.; Antifouling products	
Uses advised against	: Not applicable.	
Supplier's details	: ₱PG 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

GHS Classification	: FLAMMABLE LIQUIDS - Category 3
	ACUTE TOXICITY (oral) - Category 4
	ACUTE TOXICITY (inhalation) - Category 4
	SKIN IRRITATION - Category 2
	EYE IRRITATION - Category 2A
	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 1 HAZARDOUS TO THE AQUATIC ENVIRONMENT - CHRONIC HAZARD - Category 1
GHS label elements	
Hazard pictograms	
Signal word	: Danger

2. Hazards identifi	Ca	ation
Hazard statements	:	<ul> <li>Flammable 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		
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 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	1	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	1	Not available.

### FIGURE Hame SIGMA ECOPLEET 550 BLUE

### 3. Composition/information on ingredients

Ingredient name	%	CAS number	CSCL
dicopper oxide	25 - <50	1317-39-1	1-297
Rosin	10 - <12.5	8050-09-7	7-935
Xylene	10 - <12.5	1330-20-7	3-3; 3-60
Zinc oxide	10 - <12.5	1314-13-2	1-561
5-Methyl-2-hexanone	7 - <10	110-12-3	2-542
Propane, 1-(ethenyloxy)-2-methyl-, polymer with chloroethene	5 - <7	25154-85-2	6-86
Titanium dioxide (excluding nanoparticle)	2 - <3	13463-67-7	1-558; 5-5225
4,5-dichloro-2-octyl-2H-isothiazol-3-one	2 - <3	64359-81-5	5-6165
Ethyl Benzene	1 - <2	100-41-4	3-28; 3-60
Talc (containing no asbestos or quartz)	1 - <2	14807-96-6	Not available.
copper(II) oxide	1 - <2	1317-38-0	1-297
Copper	0.5 - <1	7440-50-8	Not available.
Reaction products of 12-hydroxyoctadecanoic acid and octadecanoic acid and 1,3-phenylenedimethanamine	0.5 - <1	911674-82-3	Not available.
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	: 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.
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	: If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.
Most important sympto	ms/effects, acute and delayed
Potential acute health	effects
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<br/>skin irritation. Defatting to the skin. May cause an allergic skin reaction.
- Ingestion : Harmful if swallowed. Causes damage to organs following a single exposure if swallowed. Can cause central nervous system (CNS) depression.

 Over-exposure signs/symptoms

 Eye contact
 : Adverse symptoms may include the following:

Jillaci	1	Auverse symptoms may include the following.
		pain or irritation
		watering
		redness

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4. First aid measu	ures
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

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
Large spill	<ul> <li>contractor.</li> <li>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.</li> </ul>

### 7. Handling and storage

**Precautions for safe** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent handling 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 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
dícopper oxide	Japan Society for Occupational Health (Japan, 5/2023) [Copper and compounds] Skin sensitizer.
rosin	Japan Society for Occupational Health (Japan, 5/2023) Inhalation sensitizer, Skin sensitizer.
xylene	Japan Society for Occupational Health (Japan, 5/2023) OEL-M 8 hours: 50 ppm. OEL-M 8 hours: 217 mg/m <sup>3</sup> . Industrial Safety and Health Act (Japan, 6/2020) [xylene] TWA 8 hours: 50 ppm.
titanium dioxide	Japan Society for Occupational Health (Japan, 5/2023) [titanium dioxide] OEL-M 8 hours: 1.5 mg/m <sup>3</sup> (as Ti). Form: Respirable particulate matter. OEL-M 8 hours: 2 mg/m <sup>3</sup> (as Ti). Form: Total particulate matter. Japan Society for Occupational Health (Japan, 5/2023) [titanium dioxide (nanoparticle)] OEL-M 8 hours: 0.3 mg/m <sup>3</sup> . Form: nanoparticle.
ethylbenzene	Japan Society for Occupational Health

### 8. Exposure controls/personal protection

8. Exposure cont	trols/personal protection	
Talc , not containing asbest	iform fibres	(Japan, 5/2023) Absorbed through skin. OEL-M 8 hours: 20 ppm. OEL-M 8 hours: 87 mg/m <sup>3</sup> . Industrial Safety and Health Act (Japan, 6/2020) TWA 8 hours: 20 ppm. Japan Society for Occupational Health (Japan, 5/2023) [Class 1 dusts (Activated charcoal, Alumina, Aluminium, Bentonite, Diatomite, Graphite, Kaolinite, Pagodite, Pyrites, Pyrite cinder)] OEL-M 8 hours: 2 mg/m <sup>3</sup> . Form: Total dust (Class 1 Dust). OEL-M 8 hours: 0.5 mg/m <sup>3</sup> . Form:
copper oxide		Respirable dust (Class 1 Dust). Japan Society for Occupational Health (Japan, 5/2023) [Copper and compounds] Skin sensitizer.
copper		Japan Society for Occupational Health (Japan, 5/2023) [Copper and compounds] Skin sensitizer.
Recommended monitoring procedures		iate monitoring standards. Reference to nods for the determination of hazardous
Appropriate engineering controls	or other engineering controls to keep below any recommended or statutory	se process enclosures, local exhaust ventilation worker exposure to airborne contaminants limits. The engineering controls also need to s below any lower explosive limits. Use
Environmental exposure controls	they comply with the requirements of e	ocess equipment should be checked to ensure environmental protection legislation. In some neering modifications to the process equipment to acceptable levels.
Individual protection meas	ures	
Hygiene measures	eating, smoking and using the lavator Appropriate techniques should be use Contaminated work clothing should no	bughly after handling chemical products, before y and at the end of the working period. d to remove potentially contaminated clothing. bt be allowed out of the workplace. Wash Ensure that eyewash stations and safety ocation.
Eye protection	: Chemical splash goggles and face sh	ield.

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.

**Gloves** 

**Skin protection** 

: butyl rubber

### 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.
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.
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

Appearance			
Physical state	: Liquid.		
Color	: Various		
Odor	: Aromatic.		
Boiling point	: >37.78°C (>100°F)		
Flash point	: 🗭losed cup: 30°C (86	°F)	
Relative density	: 1.8		
Solubility(ies)	Media	Result	
Solubility(les)	. cold water	Not soluble	

# 10. Stability and 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/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	-
Rosin	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	7600 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	-
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	-
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	-
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	-
Ethyl Benzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
-	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/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				
acid and octadecanoic acid				
and				
1,3-phenylenedimethanamine				

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
<b>X</b> 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	-	Development toxin	Species	Dose	Exposure
<b>5</b> -Methyl-2-hexanone	-	-	Equivocal		Inhalation: 1250 ppm	-

#### **Teratogenicity**

Not available.

### 11. Toxicological information

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

Name	Category	Route of exposure	Target organs
dicopper oxide	Category 1	-	whole body
	Category 3		Respiratory tract irritation
Rosin	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
5-Methyl-2-hexanone	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
4,5-dichloro-2-octyl-2H-isothiazol-3-one	Category 1	-	respiratory organs
	Category 3		Narcotic effects
Ethyl Benzene	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Talc (containing no asbestos or quartz)	Category 1	-	respiratory organs
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
Titanium dioxide (excluding nanoparticle)	Category 1	-	respiratory organs
4,5-dichloro-2-octyl-2H-isothiazol-3-one	Category 1	-	respiratory organs
Ethyl Benzene	Category 1	-	hearing organs, nervous system
Talc (containing no asbestos or quartz)	Category 1	-	respiratory organs

#### **Aspiration hazard**

Name	Result
	ASPIRATION HAZARD - Category 1
Ethyl Benzene	ASPIRATION HAZARD - Category 1

#### Information on the likely : Not available.

#### routes of exposure

#### Potential acute health effects

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

Product name SIGMA ECOFLEET 530 BLUE	
11.	Toxicological information

Skin contact : Caus skin Ingestion : Harn swall Symptoms related to the physical. of Eye contact : Adve pain wate redm Inhalation : Adve respi coug whee asthr naus head drow dizzi unco reduc incre skele Skin contact : Adve irritat redm drym crack Skin contact : Adve irritat redm drym crack Ingestion : Adve irritat reduc incre skele Skin contact : Adve irritat reduc incre skele Skin contact : Adve irritat reduc incre skele Skin contact : Adve irritat reduc incre skele Skin contact : Adve irritat reduc incre skele Ingestion : Adve irritat reduc incre skele Skin contact : Adve irritat reduc incre skele Skele Skin contact : Adve irritat reduc incre skele Ske	
Ingestion       : Ham swall         Symptoms related to the physical, of Eye contact       : Adve pain wate reduct         Inhalation       : Adve respin coug whee asthr naus head drow dizzin unco reduct incre skele         Skin contact       : Adve respin coug whee asthr naus head drow drow dizzin unco reduct incre skele         Skin contact       : Adve irritat reduct incre skele         Ingestion       : Adve irritat reduct incre skele         Delayed and immediate effects and a Short term exposure Potential immediate       Not a effects         Potential delayed effects       : Not a effects         Potential delayed effects       : Not a effects         Potential delayed effects       : Not a effects         Potential chronic health effects       : Not a effects         Potential chronic health effects       : Not a effects         Potential chronic health effects       : Not a effects	nful if inhaled. Can cause central nervous system (CNS) depression. May e drowsiness or dizziness. May cause respiratory irritation. May cause allergy thma symptoms or breathing difficulties if inhaled.
Symptoms related to the physical, or Eye contact : Adverying inhalation : Adverying water reduction Inhalation : Adverying wheed asthrying coug wheed drow dizzing uncourse skele Skin contact : Adverying skele Skin contact : Adverying reduction incresisted Ingestion : Adverying reduction incresisted Delayed and immediate effects and a Short term exposure Potential immediate incresisted Potential delayed effects : Not a effects Potential delayed effects : Not a effects Potential delayed effects : Not a effects Potential chronic health effects General : Caus repaidon Caus	ses damage to organs following a single exposure in contact with skin. Causes irritation. Defatting to the skin. May cause an allergic skin reaction.
Eye contact       : Adveragin wate reduction wate reduction in the addition in the additis and the addition in the addit addition in t	nful if swallowed. Causes damage to organs following a single exposure if owed. Can cause central nervous system (CNS) depression.
Inhalation: Adve respi coug whee asthr naus head drow dizzii unco reduct incre skeleSkin contact: Adve reduct incre skeleSkin contact: Adve irritat reduct incre skeleIngestion: Adve reduct incre skeleDelayed and immediate effects and a Short term exposure Potential delayed effects: Not a effectsDelayed and immediate effects: Not a effectsPotential delayed effects: Not a effectsPotential chronic health effects General: Caus repea Once	hemical and toxicological characteristics
respination         Skin contact         Short term exposure         Potential delayed effects         Potential chronic health effects         Potential chronic health effects         General       : Caus	-
irritat reduct crack reduct incre skele Ingestion : Adve reduct incre skele Delayed and immediate effects and a Short term exposure Potential immediate : Not a effects Potential delayed effects : Not a effects Potential immediate : Not a effects Potential delayed effects : Not a effects Potential chronic health effects General : Caus	ezing and breathing difficulties na ea or vomiting
Pelayed and immediate effects and a         Short term exposure         Potential immediate       : Not a         effects         Potential delayed effects       : Not a         Long term exposure         Potential immediate       : Not a         effects       : Not a         Potential delayed effects       : Not a         effects       : Not a         Potential immediate       : Not a         effects       : Not a         Potential delayed effects       : Not a         effects       : Cause         repeating       : Cause         General       : Cause         repeating       : Cause      <	ess ess
Short term exposure         Potential immediate       : Not a         effects       : Not a         Potential delayed effects       : Not a         Long term exposure       : Not a         Potential immediate       : Not a         effects       : Not a         Potential delayed effects       : Not a         Potential delayed effects       : Not a         Potential chronic health effects       : Cause         General       : Cause         Once       : Once	rse symptoms may include the following: ced fetal weight ase in fetal deaths etal malformations
Short term exposure         Potential immediate       : Not a         effects       : Not a         Potential delayed effects       : Not a         Long term exposure       : Not a         Potential immediate       : Not a         effects       : Not a         Potential delayed effects       : Not a         Potential delayed effects       : Not a         Potential chronic health effects       : Cause         General       : Cause         Once       : Once	lso chronic effects from short and long term exposure
Potential immediate effects:Not a effectsPotential delayed effects:Not a effectsPotential immediate effects:Not a effectsPotential delayed effects:Not a effectsPotential delayed effects:Not a effectsPotential delayed effects:Not a effectsPotential chronic health effects:Not a effectsGeneral:Cause repead Once	
Long term exposure         Potential immediate       : Not a         effects         Potential delayed effects       : Not a         Potential chronic health effects         General       : Cause repeat Once	available.
Potential immediate       : Not a         effects       Potential delayed effects       : Not a         Potential chronic health effects       : Cause         General       : Cause         Once       : Once	available.
Potential delayed effects       : Not a         Potential chronic health effects       : Cause repeation of the second seco	available.
Potential chronic health effects         General       : Cause repeation of the comparison	available.
General : Caus repea Once	
	ses damage to organs through prolonged or repeated exposure. Prolonged or ated contact can defat the skin and lead to irritation, cracking and/or dermatitis. a sensitized, a severe allergic reaction may occur when subsequently exposed ry low levels.
	ected of causing cancer. Risk of cancer depends on duration and level of
	Japan Page: 11/17

#### Product name SIGMA ECOFLEET 530 BLUE

### 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 BLUE	1247.8	15321.4	N/A	56.0	3.7
dicopper oxide	500	2500	N/A	N/A	3.34
Rosin	7600	2500	N/A	N/A	N/A
Xylene	4300	1700	N/A	11	N/A
Zinc oxide	N/A	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
Ethyl Benzene	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

#### **Toxicity**

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> -	48 hours
		Neonate	70 h au ma
	Chronic NOEC 0.017 mg/l Fresh water	Algae	72 hours
5-Methyl-2-hexanone	Acute LC50 159 mg/l	Fish	96 hours
Titanium dioxide (excluding nanoparticle)	Acute LC50 >100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
4,5-dichloro-2-octyl-2H- isothiazol-3-one	Acute EC50 267.368 µg/l Marine water	Algae - Nitzschia pungens	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	Algae - Nitzschia pungens	96 hours
	water Chronic NOEC 0.00056 mg/l Fresh water	Fish	97 days
Ethyl Benzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
-	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
Copper	Acute LC50 810 ppb	Fish	96 hours
	Chronic EC10 8.1 μg/l	Daphnia - <i>Daphnia magna -</i> Neonate	21 days
Reaction products of 12-hydroxyoctadecanoic acid and octadecanoic acid	Acute LC50 >100 mg/l	Fish	96 hours
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12. Ecological information	
and 1,3-phenylenedimethanamine	

#### Persistence/degradability

Product/ingredient name	Test	Result		Dose		Inoculum
♂Methyl-2-hexanone Ethyl Benzene	OECD 301D -		dily - 28 days dily - 10 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
₩ylene 5-Methyl-2-hexanone Ethyl Benzene	- - -		- - -		Readily Readily Readily	/

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Rosin	1.9 to 7.7	-	High
Xylene	3.12	7.4 to 18.5	Low
5-Methyl-2-hexanone	1.88	-	Low
Ethyl Benzene	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 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

	UN	IMDG	ΙΑΤΑ
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class(es)	3	3	3
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.
Marine pollutant substances	Not applicable.	(dicopper oxide)	Not applicable.

#### Additional information

: None identified.

#### IMDG

UN

ΙΑΤΑ

- : 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	III	Flammable - Keep Fire Away	1000 L

#### Pollutant Release and Transfer Registers (PRTR)

Ingredient name	%	Status	Reference number
<b>⋉</b> ylene	11	Class 1	80
4,5-Dichloro-2-octylisothiazol-3(2H)-one	2.5	Class 1	633
Ethylbenzene	1.9	Class 1	53

#### **Industrial Safety and Health Act**

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

Ingredient name	%		Reference number
ethyl benzene	≤10	Special Organic Solvents	3-3

#### Substance(s) requiring labelling

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### 15. Regulatory information

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

#### **Chemicals requiring notification**

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

#### Carcinogens based on Article 577-2 of the Ordinance on ISH

None of the components are listed.

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

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

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.

Chemical Substances Control Law (CSCL)

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### 15. Regulatory information

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
2,2,4,4,6,6,8,8-Octamethyl-	≤10	Monitoring	40
1,3,5,7,2,4,6,8-tetraoxatetrasilocane			

High Pressure Gas Control : Not available. Law

#### **Explosives Control Law**

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	: 🔀roup 2B
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	: 16 December 2024
Date of previous issue	: 5/22/2022
Version	: 30
Prepared by	: EHS
Key to abbreviations	<ul> <li>ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient 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</li> </ul>
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### 16. Other information

by Rail UN = United Nations

✓ 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.