SAFETY DATA SHEET

SIGMA ECOFLEET 530 BROWN



Date of issue 7 July 2024

Version 6

number

Signal word

1. Product and company identification

Product name	: SIGMA ECOFLEET 530 BROWN	
Product code	: 00445161	
Product type	: Liquid.	
Relevant identified uses of	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	: 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	: 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 (REPEATED EXPOSURE) - Category 2 HAZARDOUS TO THE AQUATIC ENVIRONMENT - ACUTE HAZARD - Category 1 HAZARDOUS TO THE AQUATIC ENVIRONMENT - CHRONIC HAZARD - Category 1
GHS label elements	
Hazard pictograms	
	$\langle \mathcal{H} \rangle \langle \mathcal{H} \rangle \langle \mathcal{H} \rangle \langle \mathcal{H}_2 \rangle$
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: Danger

Product code 00445161 Product name SIGMA ECOFL	EET 530 BROWN	Date of issue 7 July 2024	Version 6		
2. Hazards identification					
Hazard statements	May cause respiratory irritat Suspected of causing cance May damage fertility or the u Causes damage to organs. respiratory organs, systemic	haled. eaction. a symptoms or breathing difficulties ion. er. unborn child. (central nervous system (CNS), kid coxicity, whole body) ns through prolonged or repeated e spiratory organs)	dneys, liver,		
Precautionary statements					
Prevention	have been read and unders eye or face protection. Wea surfaces, sparks, open flam outdoors or in a well-ventilat breathe vapor. Do not eat,	before use. Do not handle until all s tood. Wear protective gloves, prot ar respiratory protection. Keep awa es and other ignition sources. No s ted area. Avoid release to the envi drink or smoke when using this pro contaminated work clothing should	ective clothing and ay from heat, hot smoking. Use only ronment. Do not iduct. Wash		
Response	INHALED: Remove person POISON CENTER or doctor symptoms: Call a POISON CENTER or doctor if you fee immediately all contaminate with plenty of water. If skin IF IN EYES: Rinse cautious	l or concerned: Call a POISON CE to fresh air and keep comfortable f r if you feel unwell. If experiencing CENTER or doctor. IF SWALLOW el unwell. Rinse mouth. IF ON SK d clothing. Rinse skin with water. I irritation or rash occurs: Get medic ly with water for several minutes. R to do. Continue rinsing. If eye irrita	or breathing. Call a respiratory 'ED: Call a POISON IN (or hair): Take off IF ON SKIN: Wash al advice or attention. emove contact		
Storage	: Store locked up. Store in a	well-ventilated place. Keep contain	er tightly closed.		
Disposal	: Dispose of contents and con and international regulations	ntainer in accordance with all local, 3.	regional, national		
Other hazards which do not result in classification	: Prolonged or repeated conta	act may dry skin and cause irritatio	n.		

3. Composition/information on ingredients

Substance/mixture	;	Mixture
CAS number/other identifiers		
CAS number		Not applicable.
CSCL number	з.	Not available.

3. Composition/information on ingredients

Ingredient name	%	CAS number	CSCL
dicopper oxide	25 - <50	1317-39-1	1-297
Zinc oxide	10 - <12.5	1314-13-2	1-561
Rosin	10 - <12.5	8050-09-7	7-935
Xylene	7 - <10	1330-20-7	3-3; 3-60
5-Methyl-2-hexanone	5 - <7	110-12-3	2-542
Propane, 1-(ethenyloxy)-2-methyl-, polymer with chloroethene	3 - <5	25154-85-2	6-86
Talc (containing no asbestos or quartz)	3 - <5	14807-96-6	Not available.
Diiron trioxide	3 - <5	1309-37-1	1-357; 5-5188
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
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.
carbon black	0.2 - <0.5	1333-86-4	5-3328; 5-5222

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	: 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.
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	: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
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 symptoms/effects, acute and delayed

Potential acute health effects	
Eye contact	: Causes serious eye irritation.
Inhalation	 Harmful if inhaled. 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	 Harmful if swallowed. Causes damage to organs following a single exposure if swallowed.
Over-exposure signs/sympto	<u>ms</u>
Eye contact	Adverse symptoms may include the following: pain or irritation watering redness

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4. First aid measu) S		
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing wheezing and breathing difficulties asthma 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	al attention and special treatment needed, if ne	<u>ecessary</u>	
Notes to physician	: In case of inhalation of decomposition products The exposed person may need to be kept under		
Specific treatments	: No specific treatment.		
Protection of first-aiders	: No action shall be taken involving any personal is suspected that fumes are still present, the res mask or self-contained breathing apparatus. It r providing aid to give mouth-to-mouth resuscitation thoroughly with water before removing it, or weak	scuer should wear a may be dangerous ion. Wash contami	an appropriate to the person

See toxicological information (Section 11)

5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , 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.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides halogenated compounds metal oxide/oxides

breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

equipment for fire-fighters

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 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 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
	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.

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7. Handling and storage

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
dicopper oxide	Japan Society for Occupational Health (Japan, 5/2023). [Copper and compounds] Skin sensitizer.
Rosin	Japan Society for Occupational Health (Japan, 5/2023). Skin sensitizer.
Xylene	Inhalation sensitizer. Industrial Safety and Health Act (Japan, 6/2020). [xylene] TWA: 50 ppm 8 hours. Japan Society for Occupational Health (Japan, 5/2023). OEL-M: 50 ppm 8 hours. OEL-M: 217 mg/m ³ 8 hours.
Talc (containing no asbestos or quartz)	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: 0.5 mg/m ³ 8 hours. Form: Respirable dust (Class 1 Dust) OEL-M: 2 mg/m ³ 8 hours. Form: Total dust (Class 1 Dust)
Diiron trioxide	Japan Society for Occupational Health (Japan, 5/2023). [Class 2 dusts (Bakelite (asbestos-free, technical grade), Carbon black, Coal, Cork dust, Cotton dust, Iron oxide, Grain dust, Joss stick material dust, Marble, Portland cement, Zinc oxide)] OEL-M: 1 mg/m ³ 8 hours. Form: Respirable dust (Class 2 Dust) OEL-M: 4 mg/m ³ 8 hours. Form: Total dust
Ethyl Benzene	(Class 2 Dust) Japan Society for Occupational Health (Japan, 5/2023). Absorbed through skin. OEL-M: 87 mg/m ³ 8 hours. OEL-M: 20 ppm 8 hours. Industrial Safety and Health Act (Japan,
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8. Exposure controls/personal prote-	ction
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copper(II) oxide Copper		6/2020). TWA: 20 ppm 8 hours. Japan Society for Occupational Health (Japan, 5/2023). [Copper and compounds] Skin sensitizer. Japan Society for Occupational Health (Japan, 5/2023). [Copper and compounds] Skin sensitizer.	
Recommended monitoring procedures	: Reference should be made to appropria national guidance documents for methor substances will also be required.		
Appropriate engineering controls	or other engineering controls to keep w	e process enclosures, local exhaust ventilation orker exposure to airborne contaminants mits. The engineering controls also need to below any lower explosive limits. Use	
Environmental exposure controls	they comply with the requirements of en	cess equipment should be checked to ensure nvironmental protection legislation. In some eering modifications to the process equipment to acceptable levels.	
ndividual protection measu	res		
Hygiene measures	: Wash hands, forearms and face thorou eating, smoking and using the lavatory Appropriate techniques should be used Contaminated work clothing should not	to remove potentially contaminated clothing. be allowed out of the workplace. Wash Ensure that eyewash stations and safety	
Eye protection	: Chemical splash goggles and face shield.		
Skin protection			
Hand protection	be worn at all times when handling che this is necessary. Considering the para check during use that the gloves are sti should be noted that the time to breakt	ers. In the case of mixtures, consisting of	
Gloves	: butyl rubber		
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	hazards of the product and the safe wo workers are exposed to concentrations appropriate, certified respirators. Use a	known or anticipated exposure levels, the rking limits of the selected respirator. If above the exposure limit, they must use a properly fitted, air-purifying or air-fed standard if a risk assessment indicates this is	

9. Physical and chemical properties

Appearance			I
Physical state	: Liquid.		
Color	: Brown.		
Odor	: Characteristic.		
Boiling point	: >37.78°C (>100°F)		
Flash point	: Closed cup: 29°C (84.2°F)		
Relative density	: 2.01		
	Media	Result	
Solubility(ies)	cold water	Not soluble	

10. Stability and reactivity

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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	-
Zinc oxide	LC50 Inhalation Dusts and mists	Rat	>5700 mg/m ³	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	-
Xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
-	LD50 Oral	Rat	4.3 g/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	-
Diiron trioxide	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours
	LD50 Oral	Rat	10 g/kg	-
4,5-dichloro-2-octyl-2H- isothiazol-3-one	LC50 Inhalation Dusts and mists	Rat	0.16 mg/l	4 hours
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11. Toxicological i	nformation			
	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 12-hydroxyoctadecanoic acid and octadecanoic acid and 1,3-phenylenedimethanamine	LC50 Inhalation Dusts and mists	Rat	>5.08 mg/l	4 hours
carbon black	LD50 Oral	Rat	>10 g/kg	-

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)

Name	Category	Route of exposure	Target organs
dicopper oxide	Category 1	-	whole body
	Category 3		Respiratory tract irritation
Zinc oxide	Category 1	-	respiratory organs, systemic toxicity
Rosin	Category 3	-	Respiratory tract irritation
Xylene	Category 1	-	central nervous system (CNS), kidneys, liver, respiratory organs
	Category 3		Narcotic effects
5-Methyl-2-hexanone	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Talc (containing no asbestos or quartz)	Category 1	-	respiratory organs
Diiron trioxide	Category 1	-	respiratory organs
4,5-dichloro-2-octyl-2H-isothiazol-3-one	Category 1	-	respiratory organs
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	Category 3		Narcotic effects
Ethyl Benzene	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
X ylene	Category 1	-	nervous system, respiratory organs
5-Methyl-2-hexanone	Category 2	-	central nervous system (CNS), kidneys, respiratory organs
Talc (containing no asbestos or quartz)	Category 1	-	respiratory organs
Diiron trioxide	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
carbon black	Category 1	-	respiratory organs

Aspiration hazard

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

Information on the likely routes of exposure	:	Not available.
Potential acute health effec	<u>ts</u>	
Eye contact	:	Causes serious eye irritation.
Inhalation	:	Harmful if inhaled. 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	:	Harmful if swallowed. Causes damage to organs following a single exposure if swallowed.
Symptoms related to the ph Eye contact		ical, chemical and toxicological characteristics 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 asthma reduced fetal weight increase in fetal deaths
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11. Toxicological information

	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

Delayed and immediate effect	ts	and also chronic effects from short and long term exposure
<u>Short term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Long term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Potential chronic health effe	ect	<u>s</u>
General	:	May cause 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.
Mutagenicity	1	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 BROWN	1238.2	16432.3	N/A	65.5	3.7
dicopper oxide	500	2500	N/A	N/A	3.34
Zinc oxide	N/A	2500	N/A	N/A	N/A
Rosin	7600	2500	N/A	N/A	N/A
Xylene	4300	1700	N/A	11	N/A
5-Methyl-2-hexanone	5657	8140	N/A	11	N/A
Diiron trioxide	10000	N/A	N/A	N/A	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

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11. Toxicological 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 - Daphnia magna -	48 hours
		Neonate	
	Chronic NOEC 0.017 mg/l Fresh water	Algae	72 hours
5-Methyl-2-hexanone	Acute LC50 159 mg/l	Fish	96 hours
Diiron trioxide	Acute EC50 >100 mg/l	Daphnia	48 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
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> -	21 days
		Neonate	-
Reaction products of	Acute LC50 >100 mg/l	Fish	96 hours
12-hydroxyoctadecanoic			
acid and octadecanoic acid			
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	Jradability
₩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

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

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	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
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

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

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.

14. Transport information

Transport in bulk according : Not applicable. to IMO instruments

15. Regulatory information

Fire Service Law

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

Pollutant Release and Transfer Registers (PRTR)

Ingredient name	%		Reference number
▼ylene	8.9	Class 1	80
4,5-Dichloro-2-octylisothiazol-3(2H)-one	2.5		633
Ethylbenzene	1.5		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

Ingredient name	%	Status	Reference number
Copper and its compounds	≥40 - ≤50	Listed	379
Zinc oxide	≥10 - ≤20	Listed	188
Rosin	≥10 - ≤20	Listed	632
Xylene	≤10	Listed	136
5-Methyl-2-hexanone	≤10	Listed	591
Iron oxide	≤10	Listed	192
Ethylbenzene	≤10	Listed	70

Chemicals requiring notification

Ingredient name	%	Status	Reference number
Copper and its compounds	≥40 - ≤50	Listed	379
Zinc oxide	≥10 - ≤20	Listed	188
Rosin	≥10 - ≤20	Listed	632
Xylene	≤10	Listed	136
5-Methyl-2-hexanone	≤10	Listed	591
Iron oxide	≤10	Listed	192
Ethylbenzene	≤10	Listed	70
Carbon black	≤10	Listed	130

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

None of the components are listed.

<u>Mutagen</u>

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15. Regulatory information					
Ingredient name		%	Status	Reference	
4,5-dichloro-2-n-octylisothiazol-3-one		≤10	Listed	number -	
Corrosive liquid	: Not listed				
Occupational Safety and Health Law	: Inflammable, Comb	oustible			
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, Comb	oustible			
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)

Ingredient name	%	Status	Reference number
X ylene	≤10	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		, i i i i i i i i i i i i i i i i i i i	

High Pressure Gas Control : Not available. Law

Explosives Control Law

None of the components are listed.

Law concerning prevention	1	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.

Road law : Not available.	List of Specially Controlled Industrial Waste Japan inventory		Not listed Not determined.
	Road law	:	Not available.

16. Other information

<u>History</u>	
Date of issue/Date of revision	: 7 July 2024
Date of previous issue	: 8/17/2023
Version	: 6
Prepared by	: EHS
Key to abbreviations	 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 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.