SAFETY DATA SHEET

Date of issue/Date of revision 21 February 2024

Version2.02

Section 1. Identification

Product code	: 00	00001024175
Product name	: SI	IGMA ECOFLEET 530 REDBROWN
CAS number	: No	ot applicable.
EC number	: M	lixture.
Other means of identification 00146095; 00242162		
Product type	: Li	iquid.
Relevant identified uses of the	sut	bstance or mixture and uses advised against
Product use		oating.; Antifouling products rofessional applications, Used by spraying, Application by non spray methods
Uses advised against	: Pi	roduct is not intended, labelled or packaged for consumer use.
Supplier's details	Lo Bi Vi	PG Yung Chi Coatings Co. Ltd ot 219, Amata Street, Long Binh IZ ien Hoa City, Dong Nai Province ietnam el : +84 61 3936121/22
Emergency telephone number (with hours of operation)	: Cl	HEMTREC +(84)-444581938 (CCN 17704)

Section 2. Hazards identification

 FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 5 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1 TOXIC TO REPRODUCTION - Category 2 AQUATIC TOXICITY (ACUTE) - Category 1 AQUATIC TOXICITY (CHRONIC) - Category 1 Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 11% Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 17.5%

GHS label elements

Section 2. Hazards identification

Hazard pictograms	
Signal word	: Danger
Hazard statements	 Flammable liquid and vapor. Harmful if swallowed or if inhaled. May be harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Suspected of damaging fertility or the unborn child. Very toxic to aquatic life with long lasting effects.
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. 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. Avoid breathing 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: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. 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: Call a POISON CENTER or doctor if you feel unwell. 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. Immediately call a POISON CENTER or doctor.
Storage	: Store locked up.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Routes of entry	: Not available.
Other hazards which do not result in classification	: Prolonged or repeated contact may dry skin and cause irritation.

Section 3. Composition/information on ingredients

Substance/mixture	;	Mixture
CAS number/other identifiers		
CAS number	÷	Not applicable.
EC number	÷	Mixture.

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Section 3. Composition/information on ingredients

Ingredient name	CAS number	Chemical formula	%
dicopper oxide	1317-39-1	Cu2-O	≥25 - ≤50
zinc oxide	1314-13-2	O-Zn	≥10 - ≤16
rosin	8050-09-7	C20H28 32O2	≥10 - ≤15
xylene	1330-20-7	C8-H10	≤10
5-methylhexan-2-one	110-12-3	C7-H14-O	≤10
Talc , not containing asbestiform fibres	14807-96-6	3Mg-O.4Si-O2. H2-O	≤4.9
4,5-dichloro-2-octyl-2H-isothiazol-3-one	64359-81-5	C11-H17-Cl2-N-O- S	≤3
ethylbenzene	100-41-4	C8-H10	≤3
copper oxide	1317-38-0	Cu-O	≤3

There are no 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.

SUB codes represent substances without registered CAS Numbers.

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

Section 4. First aid measures

Description of necessary first aid measuresEye 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 damage.
Inhalation	: Harmful if inhaled.
Skin contact	: May be harmful in contact with skin. Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: Harmful if swallowed.
Over-exposure signs/sympto	o <u>ms</u>
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations

Section 4. First aid measures

Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: stomach pains reduced fetal weight increase in fetal deaths skeletal malformations
Indication of immediate	medical attention and special treatment needed, if necessary
Notes to physician	: In case of inhalation of decomposition products in a fire, sy

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	: N	No specific treatment.
Protection of first-aiders	i: r P	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)

Section 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 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.

Section 5. Fire-fighting measures

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.

Section 6. Accidental release measures

Personal precautions, protec	tiv	e 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. Do not breathe 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 co	ont	ainment 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 non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems 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
	rate presenter and the againer of our offer of an angle. Empty container

Section 7. Handling and storage

		retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:	Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits			
dicopper oxide	Ministry of Health (Viet Nam, 6/2019). [copper and compounds (dust)] TWA: 0.5 mg/m ³ 8 hours. Form: Dust Ministry of Health (Viet Nam, 6/2019). [copper compounds] STEL: 1 mg/m ³ 15 minutes. TWA: 0.5 mg/m ³ 8 hours. Ministry of Health (Viet Nam, 6/2019). [copper and compounds (fume)] TWA: 0.1 mg/m ³ 8 hours. Form: vapour, fume			
zinc oxide	Ministry of Health (Viet Nam, 6/2019). TWA: 5 mg/m ³ 8 hours. Form: Dust and fumes TWA: 2 mg/m ³ 8 hours. Form: respirable dust TWA: 4 mg/m ³ 8 hours. Form: total dust concentration			
rosin	ACGIH TLV (United States, 1/2023). [resin acids as total Resin acids] Skin sensitizer. Inhalation sensitizer. TWA: 0.001 mg/m ³ , (as total Resin acids) 8 hours. Form: Inhalable fraction			
xylene	hours. Form: Inhalable fraction Ministry of Health (Viet Nam, 6/2019). [xylene] STEL: 300 mg/m ³ 15 minutes. TWA: 100 mg/m ³ 8 hours.			
5-methylhexan-2-one	ACGIH TLV (United States, 1/2023). TWA: 93 mg/m ³ 8 hours. TWA: 20 ppm 8 hours. STEL: 50 ppm 15 minutes. STEL: 234 mg/m ³ 15 minutes.			
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Section 8. Exposure controls/personal protection

Talc , not containing asbestif		
	TWA: 3 mg/m³ 8 hours. Form dust	: inhalable
	TWA: 1 mg/m ³ 8 hours. Form	· respirable
	dust	. respirable
	TWA: 2 mg/m ³ 8 hours. Form concentration	: total dust
ethylbenzene	ACGIH TLV (United States, 1	(2023)
	Ototoxicant.	2020).
	TWA: 20 ppm 8 hours.	
copper oxide	Ministry of Health (Viet Nam,	6/2019).
	[copper and compounds (du	/-
	TWA: 0.5 mg/m ³ 8 hours. For	
	Ministry of Health (Viet Nam,	6/2019).
	[copper compounds]	
	STEL: 1 mg/m ³ 15 minutes.	
	TWA: 0.5 mg/m ³ 8 hours. Ministry of Health (Viet Nam,	6/2019)
	[copper and compounds (fur	
	TWA: 0.1 mg/m ³ 8 hours. For	
	fume	m. vapour,
Recommended monitoring procedures	Reference should be made to appropriate monitoring standards. Reference should be made to appropriate monitoring standards. Reference and a substances will also be required.	
Appropriate engineering	Use only with adequate ventilation. Use process enclosures, local ex	acuat
controls	ventilation or other engineering controls to keep worker exposure to a	
	contaminants below any recommended or statutory limits. The engine	
	also need to keep gas, vapor or dust concentrations below any lower	
	limits. Use explosion-proof ventilation equipment.	
Environmental exposure	Emissions from ventilation or work process equipment should be chee	
controls	they comply with the requirements of environmental protection legisla	
	cases, fume scrubbers, filters or engineering modifications to the proceeding equipment will be necessary to reduce emissions to acceptable levels	
	- 1	-
Individual protection measur		
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical p	
	eating, smoking and using the lavatory and at the end of the working Appropriate techniques should be used to remove potentially contami	
	Contaminated work clothing should not be allowed out of the workplace	
	Contaminated work clothing should not be allowed out of the workplac contaminated clothing before reusing. Ensure that evewash stations	e. Wash
	Contaminated work clothing should not be allowed out of the workplace contaminated clothing before reusing. Ensure that eyewash stations a showers are close to the workstation location.	e. Wash
Eve/face protection	contaminated clothing before reusing. Ensure that eyewash stations showers are close to the workstation location.	e. Wash
Eye/face protection	contaminated clothing before reusing. Ensure that eyewash stations	e. Wash
Skin protection	contaminated clothing before reusing. Ensure that eyewash stations showers are close to the workstation location. Chemical splash goggles and face shield.	ce. Wash and safety
	contaminated clothing before reusing. Ensure that eyewash stations is showers are close to the workstation location. Chemical splash goggles and face shield. Chemical-resistant, impervious gloves complying with an approved st be worn at all times when handling chemical products if a risk assess this is necessary. Considering the parameters specified by the glove check during use that the gloves are still retaining their protective prop should be noted that the time to breakthrough for any glove material r	ee. Wash and safety andard should ment indicates manufacturer, perties. It nay be
Skin protection	 contaminated clothing before reusing. Ensure that eyewash stations is showers are close to the workstation location. Chemical splash goggles and face shield. Chemical-resistant, impervious gloves complying with an approved state worn at all times when handling chemical products if a risk assess this is necessary. Considering the parameters specified by the glove check during use that the gloves are still retaining their protective propreshould be noted that the time to breakthrough for any glove material redifferent for different glove manufacturers. In the case of mixtures, complete the statement of the statement of	e. Wash and safety andard should ment indicates manufacturer, perties. It nay be onsisting of
Skin protection	contaminated clothing before reusing. Ensure that eyewash stations is showers are close to the workstation location. Chemical splash goggles and face shield. Chemical-resistant, impervious gloves complying with an approved st be worn at all times when handling chemical products if a risk assess this is necessary. Considering the parameters specified by the glove check during use that the gloves are still retaining their protective prop should be noted that the time to breakthrough for any glove material r	e. Wash and safety andard should ment indicates manufacturer, perties. It nay be onsisting of
Skin protection	contaminated clothing before reusing. Ensure that eyewash stations is showers are close to the workstation location. Chemical splash goggles and face shield. Chemical-resistant, impervious gloves complying with an approved sta be worn at all times when handling chemical products if a risk assess this is necessary. Considering the parameters specified by the glove check during use that the gloves are still retaining their protective prop should be noted that the time to breakthrough for any glove material r different for different glove manufacturers. In the case of mixtures, co several substances, the protection time of the gloves cannot be accur	e. Wash and safety andard should ment indicates manufacturer, perties. It nay be onsisting of

Section 8. Exposure controls/personal protection

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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.

Section 9. Physical and chemical properties

<u>Appearance</u>						
Physical state	4	Liquid.				
Color	:	Brownish-red.				
Odor	1	Aromatic.				
Odor threshold	1	Not available.				
рН	1	Not applicable.				
Melting point	:	Not available.				
Boiling point	1	>37.78°C (>100°F)	>37.78°C (>100°F)			
Flash point	1	Closed cup: 30°C (86°F)				
Evaporation rate	1	Not available.				
Flammability (solid, gas)	1	Not available.				
Lower and upper explosive (flammable) limits	:	Greatest known range: Lower: 1.8% Upper: 9% (5-m	ethylhexan-2-one)			
Vapor pressure	:	Not available.				
Vapor density	:	Not available.				
Relative density	:	1.94				
Solubility(ies)		Media Result				
oorability(les)	1	cold water Not soluble				
Partition coefficient: n- octanol/water	:	Not applicable.				
Auto-ignition temperature	:	Not available.				
Decomposition temperature	:	Not available.				
Viscosity	:	Kinematic (40°C): >21 mm²/s				

Section 10. Stability and reactivity

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Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Chemical stability	: The product is stable.
Reactivity	: No specific test data related to reactivity available for this product or its ingredients.

Section 10. Stability and reactivity

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

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
dícopper 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-methylhexan-2-one	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	-
copper oxide	LD50 Oral	Rat	>2000 mg/kg	-
Conclusion/Summary	: There are no data available on	the mixture it	self.	•

Irritation/Corrosion

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

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Conclusion/Summary	: There are no data available on the mixture itself.		
Mutagenicity			
Respiratory	: There are no data available on the mixture itself.		
Skin	: There are no data available on the mixture itself.		
Sensitization			
Respiratory	: There are no data available on the mixture itself.		
Eyes	: There are no data available on the mixture itself.		
Skin	: There are no data available on the mixture itself.		
Conclusion/Summary			

Section 11. Toxicological information

Carcinogenicity

Conclusion/Summary

: There are no data available on the mixture itself.

Reproductive toxicity

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

Conclusion/Summary

: There are no data available on the mixture itself.

Teratogenicity

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

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
xylene	Category 3	-	Respiratory tract irritation
Talc , not containing asbestiform fibres	Category 3	-	Respiratory tract irritation
4,5-dichloro-2-octyl-2H-isothiazol-3-one	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
ethylbenzene	Category 2	-	hearing organs

Aspiration hazard

Name	Result
5-methylhexan-2-one	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 2 ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure	:	Not available.		
Potential acute health effects				
Eye contact	:	Causes serious eye damage.		
Inhalation	1	Harmful if inhaled.		
Skin contact	:	May be harmful in contact with skin. Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.		
Ingestion	:	Harmful if swallowed.		
Symptoms related to the physical, chemical and toxicological characteristics				

Eye contact	: Adverse symptoms may include the following: pain
	watering
	redness

Section 11. Toxicological information

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Inhalation	:	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations	
Ingestion	:	Adverse symptoms may include the following: stomach pains 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	:	There are no data available on the mixture itself.
Potential delayed effects	1	There are no data available on the mixture itself.
<u>Long term exposure</u>		
Potential immediate effects	:	There are no data available on the mixture itself.
Potential delayed effects	1	There are no data available on the mixture itself.
Potential chronic health effe	ct	<u>s</u>
General	:	Prolonged or repeated contact can defat the skin and lead to irrit
	Skin contact Ingestion Delayed and immediate effects Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects Long term exposure Potential delayed effects P	Skin contact : Ingestion : Delayed and immediate effects : Short term exposure Potential immediate Potential delayed effects : Long term exposure Potential immediate Potential delayed effects : Long term exposure : Potential delayed effects :

General	 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	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value	
Oral	1194.02 mg/kg	
Dermal	2776.32 mg/kg	
Inhalation (gases)	59265.14 ppm	
Inhalation (vapors)	54.09 mg/l	
Inhalation (dusts and mists)	2.15 mg/Ĭ	

Other information

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Product code 000001024175

Product name SIGMA ECOFLEET 530 REDBROWN

Section 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.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
dícopper 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-methylhexan-2-one	Acute LC50 159 mg/l	Fish	96 hours
4,5-dichloro-2-octyl-2H-	Acute EC50 267.368 µg/l Marine water	Algae - Nitzschia pungens	96 hours
isothiazol-3-one			
	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	Fish	97 days
	water		-
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-

Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
5-methylhexan-2-one ethylbenzene	OECD 301D -		dily - 28 days dily - 10 days	-		-
Product/ingredient name	Aquatic half-lif	e	Photolysis		Biodeg	Jradability
ylene 5-methylhexan-2-one ethylbenzene	- - -	- - -			Readil Readil Readil	/

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
r osin	1.9 to 7.7	-	High
xylene	3.12	7.4 to 18.5	Low
5-methylhexan-2-one	1.88	-	Low
ethylbenzene	3.6	79.43	Low

Mobility in soil

Soil/water partition : N coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

Section 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.

Section 14. Transport information

	UN	IMDG	IATA
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class(es)	3	3	3
Packing group			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 in	formation
UN	: None identified.
IMDG	: The marine pollutant mark is not required when transported in sizes of \leq 5 L or \leq 5 kg.
IATA	: The environmentally hazardous substance mark may appear if required by other transportation regulations.
Special preca	autions 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

Section 15. Regulatory information

Safety, health and environmental regulations specific for the product

: No known specific national and/or regional regulations applicable to this product (including its ingredients).

Circular no. 05/1999/TT-BYT

Ingredient name	Category	Notes
benzene	Category 1	
toluene	Category 2	
xylene	Category 2	
Cadmium (Non-pyrophoric)	Category 2	
lead monoxide	Category 2	

Toxic classification (TCVN : 3

3164-79)

International regulations

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Section 16. Other information

History

matory	
Date of issue/Date of revision	: 21 February 2024
Date of previous issue	: 11/25/2022
Version Prepared by	: 2.02 : EHS
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container 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) UN = United Nations
References	: Not available.

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.