SAFETY DATA SHEET



The information in this Safety Data Sheet is required pursuant to GHS UN rev. 7

Date of issue/Date of revision 16 December 2024

Version 1.02

Section 1. Identification	
Product code Product name Product type	: 000001117995 : SIGMA ECOFLEET 290 A REDBROWN : Liquid.
Other means of identification 00218998	•
Relevant identified uses of th	e substance or mixture and uses advised against
Product use	 Antifouling products Professional applications, Used by spraying.
Uses advised against	: Product is not intended, labelled or packaged for consumer use.
Company/undertaking identification	 PPG Industries Sales, Inc. and PPG Coatings (Philippines), Inc. 3rd Floor First Life Center 174 Salcedo St., Legaspi Village Makati City 1229, Philippines Tel # 00632- 752-6773/ Fax # 00632-752-6771
Emergency telephone number	: CHEMTREC +(63) 2-395-3308 (CCN 17704)

Section 2. Hazards identification

Classification of the substance or mixture	 FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 5 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SKIN SENSITIZATION - Category 1 TOXIC TO REPRODUCTION - Category 2 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 4.9% Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 17.4% Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 23.8%

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	: Detain, read and follow all safety instructions before use. Wear protective gloves, protective clothing, eye protection, face protection, or hearing 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 hands thoroughly after handling. Do not touch eyes. Contaminated work clothing should not be allowed out of the workplace.
Response	: Collect spillage. IF exposed or concerned, get medical advice. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical help. IF SWALLOWED: Get medical help. Rinse mouth. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water. IF ON SKIN: Get medical help. Wash with plenty of water. If skin irritation or rash occurs: Get medical help. If skin irritation occurs: Get medical help. Take off contaminated clothing and wash it before reuse. IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical help.
Storage	: Store locked up.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Other hererde which do not	Prolonged or repeated contact may dry ckin and cause irritation

Other hazards which do not : Prolonged or repeated contact may dry skin and cause irritation.

result in classification

Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

CAS number/other identifiers

Ingredient name	%	CAS number
dicopper oxide	25 - <50	1317-39-1
rosin	10 - <20	8050-09-7
xylene	10 - <20	1330-20-7
zinc oxide	5 - <10	1314-13-2
5-methylhexan-2-one	5 - <10	110-12-3
Propane, 1-(ethenyloxy)-2-methyl-, polymer with chloroethene	3 - <5	25154-85-2
Talc , not containing asbestiform fibres	1 - <3	14807-96-6
ethylbenzene	1 - <3	100-41-4
copper oxide	1 - <3	1317-38-0
4,5-dichloro-2-octyl-2H-isothiazol-3-one	0.3 - <1	64359-81-5

Philippines

Product code	000001117995
Product name	SIGMA ECOFLEET 290 A REDBROWN

Section 3. Composition/information on ingredients

copper

0.3 - <1

7440-50-8

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.

Section 4. First aid measures

Description of necess	sary 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 del	ayed

Potential acute health ef	ifects
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/sy	mptoms
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
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

Section 4. First aid measures

Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. 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 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.

Section 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. 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 containment and cleaning up

Section 6. Accidental release measures

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 retain product residue and can be hazardous. Do not reuse container. Eating, drinking and smoking should be prohibited in areas where this material is Advice on general ÷. handled, stored and processed. Workers should wash hands and face before occupational hygiene 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, Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in 4 accordance with local regulations. Store in a segregated and approved area. Store including any in original container protected from direct sunlight in a dry, cool and well-ventilated incompatibilities 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

Section 8. Exposure controls/personal protection

Control parameters Occupational exposure limits contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

	ACGIH TLV (United States, 7/2023)			
	ACGIH TLV (United States, 7/2023) [copper fume]			
	TWA 8 hours: 0.2 mg/m ³ . Form: Fume. ACGIH TLV (United States, 7/2023) [resin			
	acids] Skin sensitizer , Inhalation sensitizer TWA 8 hours: 0.001 mg/m ³ (as total Resin			
	acids). Form: Inhalable fraction. TLV (Philippines, 4/2016) [Xylene]			
	TLV 8 hours: 0.1 mg/m^3 .			
	TLV (Philippines, 4/2016)			
	TLV 8 hours: 1 mg/m ³ . Form: Fume.			
	TLV (Philippines, 4/2016) [Iron oxide] TLV 8 hours: 10 mg/m ³ . Form: Fume.			
	ACGIH TLV (United States, 7/2023)			
	TWA 8 hours: 20 ppm.			
	TWA 8 hours: 93 mg/m ³ .			
	STEL 15 minutes: 50 ppm. STEL 15 minutes: 234 mg/m ³ .			
rm fibres	TLV (Philippines, 4/2016)			
in libres	TLV 8 hours: 20 mppcf. Form: Dust.			
	TLV (Philippines, 4/2016)			
	TLV-Ceiling: 435 mg/m ³ .			
	TLV-Ceiling: 100 ppm.			
	ACGIH TLV (United States, 7/2023)			
	[copper fume]			
	TWA 8 hours: 0.2 mg/m ³ . Form: Fume.			
	TLV (Philippines, 4/2016)			
	TLV 8 hours: 0.1 mg/m ³ . Form: Fume.			
	TLV 8 hours: 1 mg/m ³ . Form: Dusts and			
we stade service sold and estade service	Mists.			
	ACGIH TLV (United States) TWA: 3 mg/m ³ (Respirable fraction).			
	TWA: 5 mg/m ⁻ (Respirable fraction). TWA: 10 mg/m ³ (Total dust).			
	riate monitoring standards. Reference to hods for the determination of hazardous			
substances will also be required.				
: Use only with adequate ventilation. U				
contaminants below any recommender also need to keep gas, vapor or dust of	ols to keep worker exposure to airborne ed or statutory limits. The engineering control concentrations below any lower explosive			
Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to en- they comply with the requirements of environmental protection legislation. In second to the process cases, fume scrubbers, filters or engineering modifications to the process				
2	 national guidance documents for met substances will also be required. Use only with adequate ventilation. U ventilation or other engineering contro contaminants below any recommende also need to keep gas, vapor or dust limits. Use explosion-proof ventilation Emissions from ventilation or work pro they comply with the requirements of 			

Individual protection measures

Section 8. Exposure controls/personal protection

Hygiene measures	Vash hands, forearms and face thoroughly after handling chemic ating, smoking and using the lavatory and at the end of the work oppropriate techniques should be used to remove potentially cont contaminated work clothing should not be allowed out of the work ontaminated clothing before reusing. Ensure that eyewash static howers are close to the workstation location.	ing period. taminated clothing. tplace. Wash
Eye/face protection	Safety eyewear complying with an approved standard should be usessment indicates this is necessary to avoid exposure to liquid ases or dusts. If contact is possible, the following protection should be uses the assessment indicates a higher degree of protection: coggles and/or face shield. If inhalation hazards exist, a full-face equired instead.	d splashes, mists, buld be worn, hemical splash
Skin protection		
Hand protection	Chemical-resistant, impervious gloves complying with an approve e worn at all times when handling chemical products if a risk ass his is necessary. Considering the parameters specified by the gl heck during use that the gloves are still retaining their protective hould be noted that the time to breakthrough for any glove mater ifferent for different glove manufacturers. In the case of mixture everal substances, the protection time of the gloves cannot be a stimated.	eessment indicates ove manufacturer, properties. It rial may be s, consisting of
Gloves	utyl rubber	
Body protection	Personal protective equipment for the body should be selected ba eing performed and the risks involved and should be approved be efore handling this product. When there is a risk of ignition from vear anti-static protective clothing. For the greatest protection from ischarges, clothing should include anti-static overalls, boots and	oy a specialist static electricity, om static
Other skin protection	ppropriate footwear and any additional skin protection measures elected based on the task being performed and the risks involve pproved by a specialist before handling this product.	
Respiratory protection	Based on the hazard and potential for exposure, select a respirate ppropriate standard or certification. Respirators must be used a espiratory protection program to ensure proper fitting, training, an spects of use.	ccording to a

Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Physical state	: Liquid.
Color	: Brownish-red.
Odor	: Aromatic.
Odor threshold	: Not available.
Melting point/freezing point	: Not available.
Boiling point or initial boiling point and boiling range	: >37.78°C (>100°F)
Flammability	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Flash point	: Closed cup: 36°C (96.8°F)
Auto-ignition temperature	:

Product code 000001117995 Product name SIGMA ECOFI		ate of i	ssue 10	6 Decembe	r 2024	Version 1.02		
Section 9. Physica	nl a	and chemica	l prop	ertie	S			
		Ingredient name		°C		°F	Method	
		5-methylhexan-2-one		400	7	52	EU A.15	
Decomposition temperature	:	Not available.			Į_			
рН	:	Not applicable.						
Viscosity		Øynamic (room temperature): Not available. Kinematic (room temperature): Not available. Kinematic (40°C): >21 mm²/s						
Media Result								
Solubility(ies)	-	cold water Not soluble						
Partition coefficient: n- octanol/water	:	Not applicable.						
Vapor pressure	:		Vapo	r Press	ure at 20	°C V	apor pres	sure at 50°C
		Ingredient name	mm Hg	kPa	Metho	od mm Hg	kPa	Method
		ethylbenzene	9.30076	1.2				
Relative density	:	1.79		1		I	I	I
Relative vapor density	:	Not available.						
Particle characteristics								
Median particle size	:	Not applicable.						
Evaporation rate	:	Not available.						

Section 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	: Under normal conditions of storage and use, hazardous reactions will not occur.
reactions	
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	: Depending on conditions, decomposition products may include the following
, products	materials: carbon oxides halogenated compounds metal oxide/oxides
Hazardous polymerization	: Under normal conditions of storage and use, hazardous polymerization will not
	occur.

Section 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 ³	4 hours
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/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	-
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	-
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	-
copper	LC50 Inhalation Dusts and mists	Rat	>5.11 mg/l	4 hours

Irritation/Corrosion

Product/ingredient name	Result		Species	Score	Exposure	Observation		
xylene	Skin - Moder	rate irritant	Rabbit	-	24 hours 500 mg	-		
Conclusion/Summary	·				·			
Skin	: There are	: There are no data available on the mixture itself.						
Eyes	: There are	: There are no data available on the mixture itself.						
Respiratory Sensitization	: There are no data available on the mixture itself.							
Conclusion/Summary								
Skin	: There are no data available on the mixture itself.							
Respiratory <u>Mutagenicity</u>	: There are no data available on the mixture itself.							
Conclusion/Summary Carcinogenicity	: There are no data available on the mixture itself.							
Conclusion/Summary	: There are no data available on the mixture itself.							
Reproductive toxicity								
Product/ingredient name	Maternal	Fertility	Developmen	t Species	Dose	Exposure		

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

Product code 000001117995

Product name SIGMA ECOFLEET 290 A REDBROWN

Section 11. Toxicological information

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
xylene	ASPIRATION HAZARD - Category 1
5-methylhexan-2-one	ASPIRATION HAZARD - Category 2
ethylbenzene	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure	: Not available.
Potential acute health effe	<u>cts</u>
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.
	hysical, chemical and toxicological characteristics
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
Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur reduced fetal weight increase in fetal deaths

Section 11. Toxicological information

Ingestion	:	skeletal malformations Adverse symptoms may include the following: stomach pains reduced fetal weight increase in fetal deaths skeletal malformations
Delayed and immediate effect	<u>:ts</u>	and also chronic effects from short and long term exposure
<u>Short term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	1	Not available.
Long term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Potential chronic health eff	<u>ect</u>	<u>s</u>
Not available.		
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
Øral	1309.03 mg/kg
Dermal	2738.93 mg/kg
Inhalation (gases)	54843.01 ppm
Inhalation (vapors)	42.17 mg/l
Inhalation (dusts and mists)	3.09 mg/l

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.

Section 12. Ecological information

Toxicity

Section 12. Ecological information

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-methylhexan-2-one	Acute LC50 159 mg/l	Fish	96 hours
ethylbenzene	Acute EC50 1.8 mg/I Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
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 water	Algae - <i>Nitzschia pungens</i>	96 hours
	Chronic NOEC 0.00056 mg/l Fresh water	Fish	97 days
copper	Acute LC50 810 ppb	Fish	96 hours
	Chronic EC10 8.1 µg/l	Daphnia - <i>Daphnia magna</i> - Neonate	21 days

Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
5-methylhexan-2-one ethylbenzene	OECD 301D -	67 % - Readily - 28 days 79 % - Readily - 10 days		-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
xylene 5-methylhexan-2-one ethylbenzene	- -		- -		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-methylhexan-2-one	1.88	-	Low
ethylbenzene	3.6	79.43	Low

Mobility in soil

Soil/water partition 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	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

IMDG

ΙΑΤΑ

UN : None identified.

- : The marine pollutant mark is not required when transported in sizes of ≤ 5 L or ≤ 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

Section 15. Regulatory information

International regulations

Montreal Protocol

Not listed.

History

Stockholm Convention on Persistent Organic Pollutants Not listed.

Section 16. Other information

History	
Date of issue/Date of revision	: 16 December 2024
Date of previous issue	: 5/20/2024
Version	: 1.02
Prepared by	: EHS
ey 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

Procedure used to derive the classification

Classification	Justification
FLAMMABLE LIQUIDS - Category 3	On basis of test data
ACUTE TOXICITY (oral) - Category 4	Calculation method
ACUTE TOXICITY (dermal) - Category 5	Calculation method
ACUTE TOXICITY (inhalation) - Category 4	Calculation method
SKIN CORROSION/IRRITATION - Category 2	Calculation method
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1	Calculation method
SKIN SENSITIZATION - Category 1	Calculation method
TOXIC TO REPRODUCTION - Category 2	Calculation method
AQUATIC HAZARD (ACUTE) - Category 1	Calculation method
AQUATIC HAZARD (LONG-TERM) - Category 1	Calculation method

V Indicates information that has changed from previously issued version.

Notice to reader

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