SAFETY DATA SHEET



Date of issue 6 March 2024

Version 8.03

Section 1. Product and company identification

Product name
Product code
Other means of identification
Product type

- : SIGMA ECOFLEET 690 REDBROWN
- : 00296988
- : Not available.
- : Liquid.

Relevant identified uses of the substance or mixture and uses advised against

Identified uses

Coating. Paints. Painting-related materials.

Uses advised against	Reason
Not applicable.	

Supplier's details:	
Supplier	 PPG Industrial do Brasil – Tintas e Vernizes Ltda Via Anhanguera KM 106, Bairro Sao Judas Tadeu Sumare / SP, Brasil 55 19 2103-6000 (Recepção e Portaria)
Email address:	: HazComLatam@ppg.com
Emergency telephone number	: 0800 707 1767 / 0800 707 7022 – Empresa Suatrans Cotec 0800 14 8110 – CEATOX - Centro de Assistência Toxicológica

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 IRRITATION - Category 2
	SERIOUS EYE DAMAGE - Category 1
	SKIN SENSITIZATION - Category 1
	CARCINOGENICITY - Category 2
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract
	irritation) - Category 3
	AQUATIC HAZARD (ACUTE) - Category 1
	AQUATIC HAZARD (LONG-TERM) - Category 1
Target organs	: Contains material which causes damage to the following organs: brain.
	Contains material which may cause damage to the following organs: blood, kidneys,
	lungs, the nervous system, liver, gastrointestinal tract, upper respiratory tract, skin, central nervous system (CNS), ears, eye, lens or cornea, stomach.

Section	2.	Hazards	identification

Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity:
2.1%
Demonstrate of the minimum consisting of ingredient(a) of unknown couts demost

Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 38.9%

Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 29.6%

Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 25.5%

	aquatic environment: 25.5%
GHS label elements 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. May cause respiratory irritation. Suspected of causing cancer. Very toxic to aquatic life with long lasting effects.
Precautionary statements	
Prevention	: Obtain special instructions before use. 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 explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Avoid release to the environment. Avoid breathing vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.
Response	: Collect spillage. IF exposed or concerned: Get medical advice or attention. IF INHALED: Call a POISON CENTER or doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. 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 in a well-ventilated place. Keep container tightly closed. Keep cool.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Other hazards which do not result in classification	: Prolonged or repeated contact may dry skin and cause irritation.

Section 3. Composition/information on ingredients

Substance/mixture Other means of identification

CAS number

: Mixture

: Not available.

CAS number/other identifiers

: Not applicable.

Ingredient name	%	CAS number	
dícopper oxide	30 - <60	1317-39-1	
xylene	7 - <10	1330-20-7	
zineb (ISO)	7 - <10	12122-67-7	
diiron trioxide	7 - <10	1309-37-1	
2-methylpropan-1-ol	3 - <5	78-83-1	
Zeolites	2 - <3	1318-02-1	
Kaolin	1 - <2	1332-58-7	
ethylbenzene	1 - <2	100-41-4	
copper oxide	1 - <2	1317-38-0	
copper	0.5 - <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 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 5 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. : If swallowed, seek medical advice immediately and show this container or label. Ingestion Keep person warm and at rest. Do NOT induce vomiting. Indication of immediate medical attention and special treatment needed, if necessary Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed. **Specific treatments** : The exposed person may need to be kept under medical surveillance for 48 hours. 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. Potential acute health effects **Eve contact** : Causes serious eye damage. Inhalation : Harmful if inhaled. May cause respiratory irritation. English (US) **South America**

Code 00296988	Date of issue	6 March 2024	Version 8.03
Product name	SIGMA ECOFLEET 690 REDBROWN		

Section 4. First aid measures

Skin contact

Ingestion

May be harmful in contact with skin. Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Harmful if swallowed.

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 metal oxide/oxides
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

Code Product nam	00296988 e	SIGMA ECOFLEET 690 REDE	Date of issue BROWN	6 March 2024	Version	8.03
Sectio	n 6. A	ccidental relea	se measures			
Small spill		and explosio Alternatively,	n-proof equipment. Dil or if water-insoluble, a	ainers from spill area. I ute with water and mop bsorb with an inert dry r er. Dispose of via a lice	up if water-solu naterial and plac	ble. ce in an
 Large spill Stop leak if without risk. Move containers from spill area. Use spark-p and explosion-proof equipment. Approach release from upwind. Prev sewers, water courses, basements or confined areas. Wash spillages effluent treatment plant or proceed as follows. Contain and collect spill combustible, absorbent material e.g. sand, earth, vermiculite or diatom and place in container for disposal according to local regulations (see S Dispose of via a licensed waste disposal contractor. Contaminated ab material may pose the same hazard as the spilled product. Note: see emergency contact information and Section 13 for waste disposal. 				wind. Prevent e sh spillages into l collect spillage te or diatomaced ations (see Secti minated absorb Note: see Sect	entry into an with non- ous earth on 13). ent	

Section 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 should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Conditions for safe storage, : 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

<u>Control parameters</u> <u>Occupational exposure limits</u>

8.03

Section 8. Exposure controls/personal protection

Ingredient name		Exposure limits
dicopper oxide		ACGIH TLV (United States, 1/2023). [Copper Fume]
xylene		TWA: 0.2 mg/m ³ 8 hours. Form: Fume Ministry of Labor and Employment (Brazil, 11/2001). [Xylenes (o-, m-, p- isomers)]
diiron trioxide		TWA: 340 mg/m ³ 8 hours. TWA: 78 ppm 8 hours. ACGIH TLV (United States, 1/2023). TWA: 5 mg/m ³ 8 hours. Form: Respirable
2-methylpropan-1-ol		fraction Ministry of Labor and Employment (Brazil, 11/2001).
Zeolites		TWA: 115 mg/m ³ 8 hours. TWA: 40 ppm 8 hours. ACGIH TLV (United States, 1/2023). [Aluminum, metal and insoluble
		compounds] TWA: 1 mg/m ³ 8 hours. Form: Respirable fraction
Kaolin		ACGIH TLV (United States, 1/2023). TWA: 2 mg/m ³ 8 hours. Form: Respirable fraction
ethylbenzene		Ministry of Labor and Employment (Brazil, 11/2001). TWA: 340 mg/m ³ 8 hours.
copper oxide		TWA: 78 ppm 8 hours. ACGIH TLV (United States, 1/2023). [Copper Fume]
copper		TWA: 0.2 mg/m ³ 8 hours. Form: Fume ACGIH TLV (United States, 1/2023). [Copper Dusts and mists, as Cu] TWA: 1 mg/m ³ , (as Cu) 8 hours. Form: Dust and mist
		ACGIH TLV (United States, 1/2023). [Copper Fume] TWA: 0.2 mg/m ³ 8 hours. Form: Fume
Recommended monitoring : procedures		priate monitoring standards. Reference to thos for the determination of hazardous
Appropriate engineering : controls	ventilation or other engineering contr contaminants below any recommend also need to keep gas, vapor or dust	Use process enclosures, local exhaust rols to keep worker exposure to airborne led or statutory limits. The engineering controls concentrations below any lower explosive
Environmental exposure : controls	they comply with the requirements of	rocess equipment should be checked to ensure f environmental protection legislation. In some ineering modifications to the process

6 March 2024

8.03

Section 8. Exposure controls/personal protection

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

		English (US) South Amorica	7/4 4
Relative density	: 1.97		
Vapor density	: Not available.		
Vapor pressure	: Not available.		
Lower and upper explosive (flammable) limits	: Not available.		
Flammability (solid, gas)	: Not available.		
Evaporation rate	: Not available.		
Flash point	: Closed cup: 26°C (78.8°F)		
Boiling point	: >37.78°C (>100°F)		
Melting point	: Not available.		
рН	Not applicable.		
Odor	: Aromatic.		
Color	: Brownish-red.		
Physical state	: Liquid.		
<u>Appearance</u>			

Section 9. Physical and chemical properties

Solubility(ies)		Media	Result
		cold water	Not soluble
Partition coefficient: n- octanol/water	:	Not applicable.	
Auto-ignition temperature	:	Not available.	
Decomposition temperature	:	Not available.	
Viscosity	:	Kinematic (40°C (104°F)):	>21 mm²/s (>21 cSt)

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 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 material carbon oxides nitrogen oxides sulfur oxides 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	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
zineb (ISO)	LD50 Oral	Rat	>2000 mg/kg	-
diiron trioxide	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours
	LD50 Oral	Rat	10 g/kg	-
2-methylpropan-1-ol	LC50 Inhalation Vapor	Rat	24.6 mg/l	4 hours
	LD50 Dermal	Rabbit	2460 mg/kg	-
	LD50 Oral	Rat	2830 mg/kg	-
Zeolites	LD50 Oral	Rat	>5 g/kg	-
Kaolin	LC50 Inhalation Dusts and mists	Rat	>5.07 mg/l	4 hours
	LD50 Oral	Rat	>5000 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	-
copper	LC50 Inhalation Dusts and mists	Rat	>5.11 mg/l	4 hours

8.03

Section 11. Toxicological information

Conclusion/Summary : There are no data available on the mixture itself. Irritation/Corrosion **Observation Product/ingredient name Species** Result Score **Exposure** xylene Skin - Moderate irritant Rabbit 24 hours 500 mq **Conclusion/Summary** Skin : There are no data available on the mixture itself. There are no data available on the mixture itself. Eyes : There are no data available on the mixture itself. Respiratory **Sensitization Product/ingredient name Route of Species** Result exposure zineb (ISO) skin Guinea pig Sensitizing **Conclusion/Summary** Skin : zineb (ISO): Weakly positive. There are no data available on the mixture itself. Respiratory **Mutagenicity** Not available. **Conclusion/Summary** : There are no data available on the mixture itself. **Carcinogenicity** Not available. **Conclusion/Summary** : There are no data available on the mixture itself. **Classification Product/ingredient name OSHA IARC** NTP **x**ylene 3 _ zineb (ISO) 3 diiron trioxide 3 _ 3 Zeolites -2B ethylbenzene _ **Carcinogen Classification code:** IARC: 1, 2A, 2B, 3, 4 NTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen OSHA: + Not listed/not regulated: -Reproductive toxicity Not available. **Conclusion/Summary** : There are no data available on the mixture itself. **Teratogenicity**

Not available.

Conclusion/Summary : There are no data available on the mixture itself. Specific target organ toxicity (single exposure)

8.03

Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
xylene	Category 3	-	Respiratory tract irritation
zineb (ISO)	Category 3	-	Respiratory tract irritation
2-methylpropan-1-ol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects

Specific target organ toxicity (repeated exposure)

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

Target organs

: Contains material which causes damage to the following organs: brain. Contains material which may cause damage to the following organs: blood, kidneys, lungs, the nervous system, liver, gastrointestinal tract, upper respiratory tract, skin, central nervous system (CNS), ears, eye, lens or cornea, stomach.

Aspiration hazard

Name	Result		
2-methylpropan-1-ol	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 2 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 damage.
Inhalation	: Harmful if inhaled. May cause respiratory irritation.
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 ph Eye contact Inhalation	 Adverse symptoms may include the following: pain watering redness Adverse symptoms may include the following:
innalation	respiratory tract irritation coughing

Code 00296988 Product name SIGMA EC	יסרי	Date of issue	6 March 2024	Version	8.03
		LEET 690 REDBROWN			
Section 11. Toxic	ol	ogical information			
Skin contact	:	Adverse symptoms may include the pain or irritation redness dryness cracking blistering may occur	e following:		
Ingestion	:	Adverse symptoms may include the stomach pains	e following:		
Delayed and immediate effect	<u>cts</u>	and also chronic effects from sho	rt and long term expo	<u>osure</u>	
Conclusion/Summary	:	There are no data available on the vapor concentrations in excess of the in adverse health effects such as m irritation and adverse effects on the Symptoms and signs include headar drowsiness and, in extreme cases, some of the above effects by absort that repeated exposure to organic so noise can cause greater hearing los If splashed in the eyes, the liquid m Ingestion may cause nausea, diarrh known, delayed and immediate effects short-term and long-term exposure exposure and eye contact.	he stated occupational bucous membrane and kidneys, liver and cen ache, dizziness, fatigue loss of consciousness ption through the skin. solvent vapors in comb ss than expected from ay cause irritation and hea and vomiting. This acts and also chronic e	exposure limit n respiratory syste tral nervous syste , muscular weak . Solvents may There is some ination with cons exposure to nois reversible dama takes into acco ffects of compor	nay result em tem. kness, cause evidence stant loud se alone. age. unt, where nents from
Short term exposure					
Potential immediate effects	1	There are no data available on the	mixture itself.		
Potential delayed effects Long term exposure	1	There are no data available on the	mixture itself.		
Potential immediate effects	1	There are no data available on the	mixture itself.		
-		There are no data available on the	mixture itself.		
Potential chronic health eff	iect	t <u>s</u>			
Not available.					
General	:	Prolonged or repeated contact can or dermatitis. Once sensitized, a se subsequently exposed to very low le	evere allergic reaction		
Carcinogenicity	:	Suspected of causing cancer. Risk exposure.		duration and lev	vel of
Mutagenicity	:	No known significant effects or critic	cal hazards.		
Reproductive toxicity	1	No known significant effects or critic	cal hazards.		
Numerical measures of toxic	city				

Acute toxicity estimates

Section 11. Toxicological information

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
GMA ECOFLEET 690 REDBROWN	1052.1	2480.2	N/A	71.0	3.4
dicopper oxide	500	2500	N/A	N/A	3.34
xylene	4300	1700	N/A	11	1.5
zineb (ISO)	2500	N/A	N/A	N/A	N/A
diiron trioxide	10000	N/A	N/A	N/A	N/A
2-methylpropan-1-ol	2830	2460	N/A	24.6	N/A
ethylbenzene	3500	17800	N/A	17.8	1.5
copper oxide	2500	N/A	N/A	N/A	N/A

Other information

: Not available.

Section 12. Ecological information

Ecotoxicity

Product/ingredient name	Result	Species	Exposure
dícopper oxide	LC50 0.003 mg/l	Fish	96 hours
diiron trioxide	Acute EC50 >100 mg/l	Daphnia	48 hours
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
Zeolites	Acute LC50 >680 mg/l	Fish	96 hours
ethylbenzene	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	

Persistence/degradability

Product/ingredient name	Test	Result		Dose		Inoculum
ethylbenzene	-	79 % - Rea	dily - 10 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
xylene ethylbenzene	-		-		Readily Readily	

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
x ylene	3.12	7.4 to 18.5	Low
zineb (ISO)	1.3	-	Low
2-methylpropan-1-ol	1	-	Low
ethylbenzene	3.6	79.43	Low

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

6 March 2024

8.03

Section 12. Ecological information

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 nonrecyclable 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	Brazil (ANTT)	IMDG	ΙΑΤΑ
UN number	UN1263	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT	PAINT
Transport hazard class(es)	3	3	3	3
Packing group	111	III	111	III
Environmental hazards Marine pollutant substances	Yes. The environmentally hazardous substance mark is not required. Not applicable.	Yes. The environmentally hazardous substance mark is not required. Not applicable.	Yes. (dicopper oxide)	Yes. The environmentally hazardous substance mark is not required. Not applicable.

Additional information

UN	: None identified.
Brazil	: None identified.
Risk number	: 30
IMDG	: The marine pollutant mark is not required when transported in sizes of ≤ 5 L or ≤ 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.

Transport in bulk according : Not applicable. to IMO instruments

Section 15. Regulatory information

Safety, health and
environmental regulations: No known specific national and/or regional regulations applicable to this productspecific for the product: (including its ingredients).

Section 16. Other information

<u>History</u>	
Date of previous issue	: 11/25/2022
Version	: 8.03 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
References	: ABNT NBR 14725-4: 2014 ANTT - National Land Transportation Agency

Indicates information that has changed from previously issued version.

<u>Disclaimer</u>

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.

8.03

6 March 2024