SAFETY DATA SHEET



Date of issue	22 May 2022
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Version 7

Section 1. Product and company identification

Product name
Product code
Other means of identification
Product type

- : SIGMA SAILADVANCE DX REDBROWN
- : 00393266
- : 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 Industries Colombia Ltda Calle 51 # 40-13 Municipio de Itagüí Antioquia, Colombia (57) (4) 3787400 (Porteria)
Email address:	: HazComLatam@ppg.com
Emergency telephone number	: Colombia: 01 8000 916012 (CISPROQUIM) + 571 288 6012 (CISPROQUIM) Ecuador: 1800-59-3005 (CISPROQUIM) Peru: 080-050-847 (CISPROQUIM)

Section 2. Hazards identification

Classification of the	: 🗾 FLAMMABLE LIQUIDS - Category 2
substance or mixture	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
	AQUATÍC HAZĂRĎ (ACUTE) - Category 1
	AQUATIC HAZARD (LONG-TERM) - Category 1

Section 2. Hazards identification			
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, cardiovascular system, upper respiratory tract, skin, central nervous system (CNS), ears, eye, lens or cornea.		
	Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 13.8%		
	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 28.3%		
	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 24.3%		
	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 37.8%		
GHS label elements			
Hazard pictograms			
Signal word	: Danger		
Hazard statements	 Fighly 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	: Øbtain 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	15 - <20	1330-20-7
ethylbenzene	7 - <10	100-41-4
Talc , not containing asbestiform fibres	5 - <7	14807-96-6
zinc oxide	3 - <5	1314-13-2
diiron trioxide	3 - <5	1309-37-1
rosin	2 - <3	8050-09-7
bis(1-hydroxy-1H-pyridine-2-thionato-O,S)copper	2 - <3	14915-37-8
copper oxide	1 - <2	1317-38-0
tetraethyl silicate	1 - <2	78-10-4
4,5-dichloro-2-octyl-2H-isothiazol-3-one	0.5 - <1	64359-81-5
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 fir	st 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.
Indication of immediate med	lical attention and special treatment needed, if necessary
Notes to physician Specific treatments	 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. 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 offect	

ential acute neaith

English (US)	Colombia	

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Section 4. First aid measures

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.

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	: Highly 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.

Section 6. Accidental release measures

Methods and materials for containment and cleaning up : Stop leak if without risk. Move containers from spill area. Use spark-proof tools Small spill and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. Large spill : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

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

Control parameters Occupational exposure limits

Section 8. Exposure controls/personal protection

Ingredient name		Exposure limits
₩ylene		ACGIH TLV (United States, 1/2021). STEL: 651 mg/m ³ 15 minutes. STEL: 150 ppm 15 minutes. TWA: 434 mg/m ³ 8 hours. TWA: 100 ppm 8 hours.
ethylbenzene		ACGIH TLV (United States, 1/2021). TWA: 20 ppm 8 hours.
Talc , not containing asbestifor	m fibres	ACGIH TLV (United States, 1/2021). TWA: 2 mg/m ³ 8 hours. Form: Respirable
zinc oxide		ACGIH TLV (United States, 1/2021). STEL: 10 mg/m ³ 15 minutes. Form: Respirable fraction TWA: 2 mg/m ³ 8 hours. Form: Respirable fraction
diiron trioxide		ACGIH TLV (United States, 1/2021). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction
rosin		ACGIH TLV (United States, 1/2021). Skin sensitizer. Inhalation sensitizer.
tetraethyl silicate		ACGIH TLV (United States, 1/2021). TWA: 85 mg/m ³ 8 hours. TWA: 10 ppm 8 hours.
Recommended monitoring procedures	atmosphere or biological monitor of the ventilation or other control protective equipment. Reference	ts with exposure limits, personal, workplace ring may be required to determine the effectivenes measures and/or the necessity to use respiratory e should be made to appropriate monitoring al guidance documents for methods for the stances will also be required.
Appropriate engineering controls	ventilation or other engineering c contaminants below any recomm	on. Use process enclosures, local exhaust controls to keep worker exposure to airborne nended or statutory limits. The engineering control dust concentrations below any lower explosive lation equipment
Environmental exposure controls	: Emissions from ventilation or wo they comply with the requirement cases, fume scrubbers, filters or	rk process equipment should be checked to ensur ts of environmental protection legislation. In some engineering modifications to the process educe emissions to acceptable levels.
ndividual protection measure	<u>s</u>	
Hygiene measures	before eating, smoking and using Appropriate techniques should b Contaminated work clothing shou	thoroughly after handling chemical products, g the lavatory and at the end of the working period. e used to remove potentially contaminated clothing uld not be allowed out of the workplace. Wash using. Ensure that eyewash stations and safety ation location
Eye protection Skin protection	: Chemical splash goggles and fac	

Section 8. Exposure controls/personal protection

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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 Other skin 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. 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>

Appearance	
Physical state	: Liquid.
Color	: Brownish-red.
Odor	: Characteristic.
рН	: Not applicable.
Melting point	: Not available.
Boiling point	: >37.78°C (>100°F)
Flash point	: Closed cup: 21°C (69.8°F)
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: 1.72
Solubility	: Insoluble in the following materials: cold water.
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

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	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
-	LD50 Oral	Rat	4.3 g/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	-
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	-
diiron trioxide	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours
	LD50 Oral	Rat	10 g/kg	-
rosin	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	7600 mg/kg	-
bis(1-hydroxy-1H-pyridine- 2-thionato-O,S)copper	LC50 Inhalation Dusts and mists	Rat	70 mg/m ³	4 hours
	LD50 Oral	Rat	1075 mg/kg	-
copper oxide	LD50 Oral	Rat	>2000 mg/kg	-
tetraethyl silicate	LC50 Inhalation Dusts and mists	Rat	10 to 16 mg/l	4 hours
	LD50 Dermal	Rabbit	5.878 g/kg	-
	LD50 Oral	Rat	6270 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

Conclusion/Summary

Irritation/Corrosion

Section 11. Toxicological information

	5					1
Product/ingredient name	Result		Species	Score	Exposure	Observation
vylene	Skin - Mod	erate irritant	Rabbit	-	24 hours 500	-
					mg	
Conclusion/Summary						
Skin	: There ar	e no data av	ailable on the mix	ture itself.		
Eyes	: There ar	e no data av	ailable on the mix	ture itself.		
Respiratory	: There ar	e no data av	ailable on the mix	ture itself.		
Sensitization						
Not available.						
Conclusion/Summary						
Skin	: There ar	: There are no data available on the mixture itself.				
Respiratory	: There ar	There are no data available on the mixture itself.				
Mutagenicity						
Not available.						
Conclusion/Summary	: There are no data available on the mixture itself.					
Carcinogenicity	• • • • • • • •					
Not available.						
Conclusion/Summary	: There ar	e no data av	ailable on the mix	ture itself.		
<u>Classification</u>						
Product/ingredient name	OSHA	IARC I	NTP			
x ylene	-	U	-			
ethylbenzene	-	2B	-			
diiron trioxide	-	3	-			

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. <u>Specific target organ toxicity (single exposure)</u>

Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
xylene	Category 3	-	Respiratory tract irritation
Talc , not containing asbestiform fibres	Category 3	-	Respiratory tract irritation
tetraethyl silicate	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

<u>Target organs</u> : 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, cardiovascular system, upper respiratory tract, skin, central nervous system (CNS), ears, eye, lens or cornea.

Aspiration hazard

Name	Result
	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure		Not available.
Potential acute health effects		
Eye contact	4	Causes serious eye damage.
Inhalation	4	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	1	Harmful if swallowed.
Symptoms related to the phy	sic	cal, chemical and toxicological characteristics
Eye contact	:	Adverse symptoms may include the following: pain watering redness
Inhalation	:	Adverse symptoms may include the following: respiratory tract irritation coughing

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Section 11. Toxic	ol	ogical information
Skin contact	:	Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur
Ingestion	:	Adverse symptoms may include the following: stomach pains
Delayed and immediate effect	<u>cts</u>	and also chronic effects from short and long term exposure
Conclusion/Summary	:	There are no data available on the mixture itself. Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.
Short term exposure		
Potential immediate effects	:	There are no data available on the mixture itself.
Potential delayed effects Long term exposure	:	There are no data available on the mixture itself.
Potential immediate effects	:	There are no data available on the mixture itself.
Potential delayed effects Potential chronic health eff		There are no data available on the mixture itself. <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	1	Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity		No known significant effects or critical hazards.
Reproductive toxicity	:	No known significant effects or critical hazards.
Numerical measures of toxic	<u>city</u>	

Acute toxicity estimates

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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 SAILADVANCE DX REDBROWN	1056	2698.6	N/A	12.6	1.4
dicopper oxide	500	2500	N/A	N/A	3.34
xylene	4300	1700	N/A	11	1.5
ethylbenzene	3500	17800	N/A	17.8	1.5
zinc oxide	N/A	2500	N/A	N/A	N/A
diiron trioxide	10000	N/A	N/A	N/A	N/A
rosin	7600	2500	N/A	N/A	N/A
bis(1-hydroxy-1H-pyridine-2-thionato-O,S)copper	1075	N/A	N/A	0.5	0.07
copper oxide	2500	N/A	N/A	N/A	N/A
tetraethyl silicate	6270	5878	N/A	11	N/A
4,5-dichloro-2-octyl-2H-isothiazol-3-one	567	1100	N/A	N/A	0.16

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
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
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
diiron trioxide	Acute EC50 >100 mg/l	Daphnia	48 hours
4,5-dichloro-2-octyl-2H- isothiazol-3-one	Acute EC50 267.368 µg/l Marine water	Algae - 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 - Nitzschia pungens	96 hours
	Chronic NOEC 0.00056 mg/l Fresh water	Fish	97 days
copper	Acute LC50 810 ppb	Fish	96 hours

Persistence/degradability

Product/ingredient name	Test	Result		Dose		Inoculum
ethylbenzene	-	79 % - Readily - 10 days		-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
<mark>k∕y</mark> lene ethylbenzene	-		-		Readily Readily	

Bioaccumulative potential

English (US)	Colombia	12/14

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Section 12. Ecolo	gical information		
Product/ingredient name	LogPow	BCF	Potential
vylene ethylbenzene rosin tetraethyl silicate	3.12 3.6 1.9 to 7.7 3.18	7.4 to 18.5 79.43 - -	low low high low
Mobility in soil Soil/water partition coefficient (Koc) Other adverse effects	Not available.No known significant effe	cts or critical hazards.	
Section 13. Dispo	sal consideration	S	
Disposal methods	: The generation of waste Disposal of this product, s with the requirements of and any regional local au recyclable products via a disposed of untreated to all authorities with jurisdic or landfill should only be and its container must be handling emptied contain containers or liners may r residues may create a hig container. Do not cut, we	should be avoided or minimiz solutions and any by-product environmental protection and thority requirements. Dispos	s should at all times comply d waste disposal legislation e of surplus and non- tractor. Waste should not be ant with the requirements of uld be recycled. Incineration not feasible. This material Care should be taken when ed or rinsed out. Empty s. Vapor from product atmosphere inside the unless they have been

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	11	II	II	II
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, zinc oxide)	Yes. The environmentally hazardous substance mark is not required. Not applicable.

contact with soil, waterways, drains and sewers.

Additional information

UN

: None identified.

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Section 14. Transport information

	•
Brazil	: None identified.
Risk number	: 33
IMDG	: The marine pollutant mark is not required when transported in sizes of \leq 5 L or \leq 5 kg.
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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).

Section 16. Other information

<u>History</u>		
Date of previous issue	: 5/22/2021	
Version	: 7 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 UN = United Nations 	3
References	: ABNT NBR 14725-4: 2014 ANTT - National Land Transportation Agency	

Indicates information that has changed from previously issued version.

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