SAFETY DATA SHEET



Date of issue	22 May 2022
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Version 9

Section 1. Product and company identification

Product name
Product code
Other means of identification
Product type

- : SIGMA SAILADVANCE DX REDBROWN
- : 00323604
- : 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
	AQUATIC HAZARD (ACUTE) - Category 1
	AQUATIC HAZARD (LONG-TERM) - Category 1

Product name SIGMA SAILADVANCE DX REDBROWN		
Section 2. Hazards	sidentification	
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.	

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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	
ølcopper 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 effect	

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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

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

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 monitoring of the ventilation or other control me protective equipment. Reference sh	with exposure limits, personal, workplace may be required to determine the effectivenes easures and/or the necessity to use respiratory hould be made to appropriate monitoring uidance documents for methods for the neces will also be required.
Appropriate engineering controls	ventilation or other engineering cont contaminants below any recommen	Use process enclosures, local exhaust rols to keep worker exposure to airborne ded or statutory limits. The engineering contro t concentrations below any lower explosive on equipment
Environmental exposure controls	: Emissions from ventilation or work p they comply with the requirements of	process equipment should be checked to ensur of environmental protection legislation. In some gineering modifications to the process
ndividual protection measures	<u>S</u>	
Hygiene measures	before eating, smoking and using th Appropriate techniques should be us Contaminated work clothing should	broughly after handling chemical products, e lavatory and at the end of the working period sed to remove potentially contaminated clothing not be allowed out of the workplace. Wash g. Ensure that eyewash stations and safety n location.
Eye protection Skin protection	: Chemical splash goggles and face s	

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Section 8. Exposure controls/personal protection

 Hand protection Chemical-resistant, impervious gloves complying with an approved standard be worn at all times when handling chemical products if a risk assessment this is necessary. Considering the parameters specified by the glove mar check during use that the gloves are still retaining their protective properties should be noted that the time to breakthrough for any glove material may different for different glove manufacturers. In the case of mixtures, consist several substances, the protection time of the gloves cannot be accuratel 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

Appearance

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 materia 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

Irritation/Corrosion

Section 11. Toxicological information

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Product/ingredient name	Result		Species	Score	Exposure	Observation
x ýlene	Skin - Mod	erate irritan	t Rabbit	-	24 hours 500 mg	-
Conclusion/Summary	L					·
Skin	: There ar	e no data a	vailable on the m	nixture itself.		
Eyes	: There ar	e no data a	vailable on the m	nixture itself.		
Respiratory	: There ar	e no data a	vailable on the m	nixture itself.		
<u>Sensitization</u>						
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 ar	e no data a	vailable on the m	nixture itself		
Carcinogenicity	. more a					
Not available.						
Conclusion/Summary	: There ar	e no data a	vailable on the m	nixture itself.		
Classification						
Product/ingredient name	OSHA	IARC	NTP			
vlene	-	3	-			
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>

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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

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.

Aspiration hazard

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

Information on the likely routes of exposure	: No	ot available.
Potential acute health effects		
Eye contact	: Ca	auses serious eye damage.
Inhalation	: Ha	armful if inhaled. May cause respiratory irritation.
Skin contact		ay be harmful in contact with skin. Causes skin irritation. Defatting to the skin. ay cause an allergic skin reaction.
Ingestion	: 📕	armful if swallowed.
Symptoms related to the phy	ical,	chemical and toxicological characteristics
Eye contact	pa wa	dverse symptoms may include the following: ain atering dness
Inhalation	res	dverse symptoms may include the following: spiratory tract irritation bughing

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Skin contact	p re d ci	dverse sy ain or irrita edness ryness racking listering m		ay include	the follo	owing:		
Ingestion		dverse sy tomach pa	mptoms m ains	ay include	the follo	owing:		
Delayed and immediate effec	ts an	id also ch	ironic effe	<u>cts from s</u>	hort an	d long term ex	<u>posure</u>	
Conclusion/Summary	v ir S d s tr n If Ir k s	apor conc adverse ritation an symptoms rowsiness ome of the nat repeat oise can of splashed ngestion m nown, del hort-term	entrations health effe d adverse and signs and, in ex e above eff ed exposur cause great in the eyes nay cause r ayed and ir	in excess of cts such as effects on include hea treme case fects by ab re to organ ter hearing s, the liquic nausea, dia mmediate of erm exposit	of the st s mucou the kidn adache, es, loss sorption ic solve loss tha d may ca arrhea a effects a	ated occupation us membrane a leys, liver and c dizziness, fatig of consciousne through the sk nt vapors in cor an expected fro ause irritation an and vomiting. T and also chronic	sure to component nal exposure limit in nd respiratory syste entral nervous syste ue, muscular weat ss. Solvents may in. There is somet nbination with cont m exposure to noit nd reversible damat his takes into accost c effects of compound dermal routes of	may result tem stem. kness, cause e evidence stant loud se alone. age. punt, where nents from
Short term exposure			,					
Potential immediate effects	: Т	here are r	no data ava	ailable on tl	he mixtu	ure itself.		
Potential delayed effects Long term exposure	: Т	here are r	no data ava	ailable on tl	he mixtu	ure itself.		
Potential immediate effects	: Т	here are r	no data ava	ailable on tl	he mixtu	ure itself.		
Potential delayed effects Potential chronic health effe Not available.		here are r	no data ava	ailable on tl	he mixtu	ure itself.		
General	0	r dermatit		ensitized, a	a severe	e allergic reaction	ead to irritation, cra on may occur wher	
Carcinogenicity	: S	•					on duration and le	evel of
Mutagenicity	: N	lo known s	significant e	effects or c	critical h	azards.		
Reproductive toxicity	: N	lo known s	significant	effects or c	critical h	azards.		
Numerical measures of toxic	<u>ity</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 % - Rea	dily - 10 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
<mark>k∕y</mark> lene ethylbenzene	-		-		Readily Readily	

Bioaccumulative potential

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Section 12. Ecolo	gical informati	on			
Product/ingredient name	LogPow	BCF	Potential		
vlene 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		
<u>Mobility in soil</u> Soil/water partition coefficient (K _{oc}) Other adverse effects	: Not available.	t effects or critical hazards.			
Section 13. Dispo	C				
Disposal methods	Sal considerations 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	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	II	II	II	II
Environmental hazards	Yes. The environmentally hazardous substance mark is not required.	Yes. The environmentally hazardous substance mark is not required.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	Not applicable.	(dicopper oxide, zinc oxide)	Not applicable.

Additional information

UN

: None identified.

Code	00323604	Date	e of issue	22 May 2022	Version	9
Product nam	e	SIGMA SAILADVANCE DX REDBROWN	N			

Section 14. Transport information

Brazil	: None identified.
Risk number	: 33
IMDG	: The marine pollutant mark is not required when transported in sizes of $\leq 5 \text{ L}$ or $\leq 5 \text{ kg}$.
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	: 5/21/2021	
Version	: 9	
	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 Good by Rail	s
	UN = United Nations	
References	: ABNT NBR 14725-4: 2014 ANTT - National Land Transportation Agency	

Indicates information that has changed from previously issued version.

Disclaimer

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.