SAFETY DATA SHEET



Date of issue	22 May 2022
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Version 8

Section 1. Product and company identification

Product name
Product code
Other means of identification
Product type

- : SIGMA SAILADVANCE DX (SIGMA SYLADVANCE 800) REDBROWN
- : 00316705
- : 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 3
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
	AQUATIC HAZARD (ACUTE) - Category 1
	AQUATIC HAZARD (LONG-TERM) - Category 1

nervous system (CNS).

: Contains material which causes damage to the following organs: brain, central

Section 2. Hazards identification

Target organs

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	Contains material which may cause damage to the following organs: blood, kidneys, lungs, the nervous system, liver, upper respiratory tract, skin, ears, eye, lens or cornea.
	Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 10.9%
	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 21.3%
	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 24.1%
	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 21.7%
GHS label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	 Fammable liquid and vapor. Harmful if swallowed or if inhaled. May be harmful in contact with skin. Causes skin irritation.
	May cause an allergic skin reaction.
	Causes serious eye damage. Suspected of causing cancer. Very toxic to aquatic life with long lasting effects.
Precautionary statements	
Prevention	: Detain 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

on. 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 cool.

Disposal

and international regulations.

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

: Dispose of contents and container in accordance with all local, regional, national

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
dicopper oxide	30 - <60	1317-39-1
zinc oxide	10 - <12.5	1314-13-2
xylene	7 - <10	1330-20-7
ethylbenzene	5 - <7	100-41-4
rosin	5 - <7	8050-09-7
diiron trioxide	3 - <5	1309-37-1
Solvent naphtha (petroleum), light aromatic	3 - <5	64742-95-6
1,2,4-trimethylbenzene	2 - <3	95-63-6
4,5-dichloro-2-octyl-2H-isothiazol-3-one	1 - <2	64359-81-5
copper oxide	1 - <2	1317-38-0
Zeolites	1 - <2	1318-02-1
copper	0.5 - <1	7440-50-8
TRIISOPROPYLSILYL ACRYLATE	0 - <0.1	157859-20-6
lead monoxide	0 - <0.1	1317-36-8

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 necessar	<u>y first aid measures</u>
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	medical 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.

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Product nar	me SIGMA	SAILADVANCE	DX (SIGMA SYLADVANCE 800) R	EDBROWN		
Sectio	on 4. First	aid mea	sures			
Protectio	on of first-aiders	is sus mask provid	tion shall be taken involving pected that fumes are still p or self-contained breathing ling aid to give mouth-to-mo ughly with water before remo	resent, the rescuer sho apparatus. It may be d uth resuscitation. Was	uld wear an app angerous to the	ropriate person
Potential	acute health effe	<u>ects</u>				
Eye cont	tact	: Cause	es serious eye damage.			
Inhalatio	on	: Harm	ful if inhaled.			
Skin cor	ntact		e harmful in contact with sk ause an allergic skin reactic		on. Defatting to t	he skin.
Ingestio	n	: Harmi	ful 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 halogenated compounds metal oxide/oxides oxides of lead
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	 Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, pr	otective 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.

English (US)

Code00316705Product nameSIGMA SA	AILADVANCE DX (Date of issue SIGMA SYLADVANCE 800)	22 May 2022 REDBROWN	Version	8			
Section 6. Accide	ental relea	ase measures						
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 o	containment ar	nd cleaning up						
 Small spill Stop leak if without risk. Move containers from spill area. Use spark-proof and explosion-proof equipment. Dilute with water and mop up if water-solul Alternatively, or if water-insoluble, absorb with an inert dry material and plac appropriate waste disposal container. Dispose of via a licensed waste disposal container. 					ole. e in an			
Large spill	Use spark-proof owind. Prevent e sh spillages into d collect spillage ite or diatomaceo ations (see Section aminated absorbe Note: see Section isposal.	ntry into an with non- us earth on 13). ent						
Section 7. Handli	ing and st	torage						

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.

English (US)	Colombia

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Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
zínc 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
xylene	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.
rosin	ACGIH TLV (United States, 1/2021). Skin sensitizer. Inhalation sensitizer.
diiron trioxide	ACGIH TLV (United States, 1/2021). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction
1,2,4-trimethylbenzene	ACGIH TLV (United States, 1/2021). TWA: 123 mg/m ³ 8 hours. TWA: 25 ppm 8 hours.
Zeolites	ACGIH TLV (United States, 1/2021). TWA: 1 mg/m ³ 8 hours. Form: Respirable fraction
procedures ati of pro sta	s product contains ingredients with exposure limits, personal, workplace sphere or biological monitoring may be required to determine the effectiveness e ventilation or other control measures and/or the necessity to use respiratory ctive equipment. Reference should be made to appropriate monitoring dards. Reference to national guidance documents for methods for the mination of hazardous substances will also be required.
controls ve	only with adequate ventilation. Use process enclosures, local exhaust lation or other engineering controls to keep worker exposure to airborne aminants below any recommended or statutory limits. The engineering controls

also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment. **Environmental exposure** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some controls cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

: Wash hands, forearms and face thoroughly after handling chemical products, Hygiene measures 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.

English (US) Colombia	6/15
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Section 8. Exposure controls/personal protection

Eye protection Skin protection	: Chemical splash goggles and face shield.
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

Appearance	
Physical state	: Liquid.
Color	: Brownish-red.
Odor	: Alcohol-like.
рН	: Not applicable.
Melting point	: Not available.
Boiling point	: >37.78°C (>100°F)
Flash point	: Closed cup: 25°C (77°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	: 1.82
Solubility	: Insoluble in the following materials: cold water.
Partition coefficient: n- octanol/water	: Not applicable.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.

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Section 9. Phy	al and chemical properties
Viscosity	: Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)
Viscosity	: > 100 s (ISO 6mm)
Section 10. Sta	ity 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 hazardou 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 decomposit products	: Depending on conditions, decomposition products may include the following materials carbon oxides nitrogen oxides sulfur oxides halogenated compounds metal oxide/ oxides

Section 11. Toxicological information

Information on toxicological effects

Ac	ute	tox	icity

Acute toxicity				
Product/ingredient name	Result	Species	Dose	Exposure
dícopper oxide	LC50 Inhalation Dusts and mists	Rat	3.34 mg/l	4 hours
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	500 mg/kg	-
zinc oxide	LC50 Inhalation Dusts and mists	Rat	>5700 mg/m ³	4 hours
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
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	-
rosin	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	7600 mg/kg	-
diiron trioxide	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours
	LD50 Oral	Rat	10 g/kg	-
Solvent naphtha (petroleum), light aromatic	LD50 Dermal	Rabbit	3.48 g/kg	-
5	LD50 Oral	Rat	8400 mg/kg	-
1,2,4-trimethylbenzene	LC50 Inhalation Vapor	Rat	18000 mg/m ³	4 hours
-	LD50 Oral	Rat	5 g/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 oxide	LD50 Oral	Rat	>2000 mg/kg	-
Zeolites	LD50 Oral	Rat	>5 g/kg	-
		English (US)	Colombia	8/15

Code 00316705 Product name SIGMA SA	ILADVANCE DX		te of issue _ADVANCE 80	J0) REDBR	22 May ROWN	2022	Ve	ersion 8
Section 11. Toxico	ological	inforn	nation					
copper TRIISOPROPYLSILYL ACRYLATE			Rat Rat			1 mg/l) mg/kg	4 hours -	
Conclusion/Summary Irritation/Corrosion	: There are	e no data a	available on	the mixtu	ure itsel	lf.		
Product/ingredient name	Result		Spec	cies	Score	e	Exposure	Observation
x ∕ylene	Skin - Mode	erate irritan	nt Rabb	>it 			24 hours 50 mg	0 -
Conclusion/Summary					<u> </u>		<u> </u>	
Skin	: There ar	e no data a	available on	the mixt	ure itsel	lf.		
Eyes			available on					
Respiratory	: There are	e no data a	available on	the mixt	ure itsel	lf.		
<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 Carcinogenicity Not available.	: There are	e no data a	available on	the mixtı	ure itsel	lf.		
Conclusion/Summary <u>Classification</u>	: There are	e no data a	available on	the mixt	ure itsel	lf.		
Product/ingredient name	OSHA	IARC	NTP					
xylene	-	3	-					
ethylbenzene	-	2B	ı -					
diiron trioxide	-	3	, -					
Zeolites	-	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
Solvent naphtha (petroleum), light aromatic	Category 3	-	Narcotic effects
1,2,4-trimethylbenzene	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	Category	Route of exposure	Target organs
ethylbenzene	Category 2	-	hearing organs
lead monoxide	Category 2		-

Target organs

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

Aspiration hazard

Name	Result
xylene	ASPIRATION HAZARD - Category 1
ethylbenzene	ASPIRATION HAZARD - Category 1
Solvent naphtha (petroleum), light aromatic	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure	Not available.	
Potential acute health effect		
Eye contact	Causes serious eye damage.	
Inhalation	Harmful if inhaled.	
Skin contact	May be harmful in contact with skin. Causes skin irritation. Defatting to the s May cause an allergic skin reaction.	skin.
Ingestion	Harmful if swallowed.	
Symptoms related to the phy	al, chemical and toxicological characteristics	
Eye contact	Adverse symptoms may include the following: pain watering redness	
Inhalation	No specific data.	

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	ological 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 effe	cts and also chronic effects from short and long term exposure
Conclusion/Summary	: There are no data available on the mixture itself. Contains lead. Exposure to lead dust and fumes adversely affects blood and blood forming tissues, kidneys, liver, th central/peripheral nervous systems and male/female reproductive organs. Lead exposure causes adverse developmental effects including brain damage in childrer and unborn fetuses. Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effects or 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.
<u>Short term exposure</u>	
Potential immediate effects	: There are no data available on the mixture itself.
Potential delayed effects	: There are no data available on the mixture itself.
Long term exposure	
Potential immediate	: There are no data available on the mixture itself.
effects	
Potential delayed effects	: There are no data available on the mixture itself.
Potential chronic health eff	ects
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	: 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.

<u>Numerical measures of toxicity</u>

Acute toxicity estimates

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Product nam	ne	SIGMA SAILADVANCE DX (SIGMA SYLA	DVANCE 800) REDBRO	WN		

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)
SIGMA SAILADVANCE DX (SIGMA SYLADVANCE 800) REDBROWN	1062.5	2628.2	N/A	59.3	2.2
dicopper oxide	500	2500	N/A	N/A	3.34
zinc oxide	N/A	2500	N/A	N/A	N/A
xylene	4300	1700	N/A	11	1.5
ethylbenzene	3500	17800	N/A	17.8	1.5
rosin	7600	2500	N/A	N/A	N/A
diiron trioxide	10000	N/A	N/A	N/A	N/A
Solvent naphtha (petroleum), light aromatic	8400	3480	N/A	N/A	N/A
1,2,4-trimethylbenzene	5000	N/A	N/A	18	1.5
4,5-dichloro-2-octyl-2H-isothiazol-3-one	567	1100	N/A	N/A	0.16
copper oxide	2500	N/A	N/A	N/A	N/A
TRIISOPROPYLSILYL ACRYLATE	2500	N/A	N/A	N/A	N/A
lead monoxide	500	N/A	N/A	11	1.5

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
zinc oxide	Acute EC50 0.17 mg/l	Algae	72 hours
	Acute EC50 0.481 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Chronic NOEC 0.017 mg/l Fresh water	Algae	72 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
diiron trioxide	Acute EC50 >100 mg/l	Daphnia	48 hours
Solvent naphtha (petroleum), light aromatic	Acute LC50 8.2 mg/l	Fish	96 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
Zeolites	Acute LC50 >680 mg/l	Fish	96 hours
copper	Acute LC50 810 ppb	Fish	96 hours
TRIISOPROPYLSILYL ACRYLATE	EC50 0.07 mg/l	Algae	72 hours
	EC50 3.5 mg/l	Daphnia	48 hours
	LC50 4 mg/l	Fish	96 hours

Persistence/degradability

Englist	h (US) Colombia	12/15

Code 00316705 Product name SIGMA SA	ILADVANCE DX	Date of issue (SIGMA SYLADVANCE 8		ay 2022	Ve	rsion 8
Section 12. Ecolo	gical in	formation				
Product/ingredient name	Test	Result		Dose		Inoculum
ethylbenzene	-	79 % - Readil	y - 10 days	-		-
Product/ingredient name	Aquatic ha	If-life P	hotolysis		Biodeg	radability
<mark>x</mark> ylene ethylbenzene TRIISOPROPYLSILYL					Readily Readily Not rea	/

Bioaccumulative potential

ACRYLATE

Product/ingredient name	LogPow	BCF	Potential
x ylene	3.12	7.4 to 18.5	low
ethylbenzene	3.6	79.43	low
rosin	1.9 to 7.7	-	high
1,2,4-trimethylbenzene	3.63	120.23	low
TRIISOPROPYLSILYL ACRYLATE	>6.2	-	high

<u>Mobility in soil</u>	
Soil/water partition coefficient (K _{oc})	: Not available.

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods	 The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply
	with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-
	recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of
	all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material
	and its container must be disposed of in a safe way. Care should be taken when
	handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product
	residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been
	cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and
	container. Do not cut, weld or grind used containers unless they have bee

Section 14. Transport information

Code	00316705	Date of issue	22 May 2022	Version	8
Product nam	ne	SIGMA SAILADVANCE DX (SIGMA SYLADVANCE	800) REDBROWN		

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	Ш	III	III	III
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.
Brazil	: None identified.
Risk number	: 30
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	:	No known specific national and/or regional regulations applicable to this product
environmental regulations		(including its ingredients).
specific for the product		

Section 16. Other information

History

Date of previous issue	:	5/21/2021
Version	1	8
		EHS

Code00316705Product nameSIGMA	Date of issue A SAILADVANCE DX (SIGMA SYLADVANCE 800) F	22 May 2022 REDBROWN	Version	8				
Section 16. Other information								
Key to abbreviations : ADN = European Provisions concerning the International Carriage of Dangero 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 Chemic 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 Ship 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) RID = The Regulations concerning the International Carriage of Dangerous Go by Rail								
References	: ABNT NBR 14725-4: 2014 ANTT - National Land Transporta	tion 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.