SAFETY DATA SHEET

Safety Data Sheet according to GB/T 16483-2008 and GB/T 17519-2013



Date of issue/Date of revision 30 May 2022

Version 14.02

Section 1. Chemical product and company identification		
Product code	: 00343985	
Product name	: SIGMA SAILADVANCE DX BROWN	
Product name	: SIGMA SAILADVANCE DX BROWN	
Product type	: Liquid.	
Relevant identified uses o	f the substance or mixture and uses advised against	
Product use	: Professional applications, Used by spraying.	
Use of the substance/ mixture	: Coating.	
Uses advised against	: Not applicable.	
Supplier's details	: PPG Coatings (Kunshan) Co., Ltd 53 Jinyang Road, Lujia Town, 215331 Kunshan City, Jiangsu Province, P.R. China Tel: 86 512 57678859 Fax: 86 512 57678857	
Emergency telephone number (with hours of operation)	: 00 86 532 83889090	

Section 2. Hazards identification

Classification of the substance or mixture according to GB 13690-2009 and GB 30000-2013

Emergency overview Liquid. Brown. Characteristic. Highly flammable liquid and vapor. Harmful if swallowed or if inhaled. May be harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Prolonged or repeated contact may dry skin and cause irritation.

IF exposed or concerned: Get medical advice or attention. IF INHALED: Call a POISON CENTER or doctor if you feel unwell. IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. IF ON SKIN: Call a POISON CENTER or doctor if you feel unwell. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Immediately call a POISON CENTER or doctor.

See Section 12 for environmental precautions.

Date of issue 30 May 2022

Version 14.02

Product name SIGMA SAILADVANCE DX BROWN

Section 2. Hazards identification

Classification of the substance or mixture	: FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 5 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1
	Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 13.8% Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 27.3% 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	 Highly flammable liquid and vapor. Harmful if swallowed or if inhaled. May be harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.
Precautionary statements	
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

Section 2. Hazards identification

Response	: Collect spillage. IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. 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.
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Storage	: Store locked up. Store in a well-ventilated place. Keep cool.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Physical and chemical hazards	: Highly flammable liquid and vapor.
Health hazards	 Harmful if swallowed or if inhaled. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Suspected of causing cancer. Prolonged or repeated contact may dry skin and cause irritation.
Symptoms related to the phy	sical, chemical and toxicological characteristics
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: No specific data.
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	ts and also chronic effects from short and long term exposure
Short term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Environmental hazards	: Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

Date of issue 30 May 2022

Version 14.02

Product name SIGMA SAILADVANCE DX BROWN

Section 2. Hazards identification

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

Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

CAS number/other identifiers

: Not applicable

CAS number : Not applicable.		
Ingredient name	%	CAS number
dicopper oxide	25 - <40	1317-39-1
ethylbenzene	10 - <25	100-41-4
xylene isomers mixture	10 - <25	1330-20-7
Talc , not containing asbestiform fibres	1 - <10	14807-96-6
zinc oxide	1 - <10	1314-13-2
rosin	1 - <10	8050-09-7
bis(1-hydroxy-1H-pyridine-2-thionato-O,S)copper	1 - <10	14915-37-8
copper oxide	1 - <10	1317-38-0
4,5-dichloro-2-octyl-2H-isothiazol-3-one	1 - <10	64359-81-5
tetraethyl silicate	1 - <10	78-10-4
copper	0.1 - <1	7440-50-8

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

SUB codes represent substances without registered CAS Numbers.

Section 4. First aid measures

Description of necess	ary first aid measures
Eye contact	 Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
Inhalation	 Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	 Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
Ingestion	: If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.
Most important sympt	oms/effects, acute and delayed
Potential acute healt	h effects
Eye contact	: Causes serious eye damage.
Inhalation	: Harmful if inhaled.
Skin contact	 May be harmful in contact with skin. Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: Harmful if swallowed.

Over-exposure signs/symptoms

Section 4. First aid measures

Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: No specific data.
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
Indication of immediate med	ical attention and special treatment needed, if necessary
Notes to physician	: 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.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: 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 halogenated compounds 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.

Product name SIGMA SAILADVANCE DX BROWN Section 5. Fire-fighting measures

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, protect	ive equipment and emergency procedures
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
Methods and materials for cor	ntainment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an

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)
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Product code 00343985 Product name SIGMA SAILADVANCE DX BROWN

Section 7. Handling and storage

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

Ingredient name	Exposure limits
dicopper oxide	GBZ 2.1 (China, 8/2019).
	PC-TWA: 0.2 mg/m ³ , (as Cu) 8 hours.
	Form: fume
ethylbenzene	GBZ 2.1 (China, 8/2019).
	PC-STEL: 150 mg/m ³ 15 minutes.
	PC-TWA: 100 mg/m ³ 8 hours.
xylene isomers mixture	GBZ 2.1 (China, 8/2019).
	PC-STEL: 100 mg/m ³ 15 minutes.
	PC-TWA: 50 mg/m ³ 8 hours.
Talc , not containing asbestiform fibres	GBZ 2.1 (China, 8/2019).
	PC-TWA: 1 mg/m ³ 8 hours. Form:
	respirable dust
	PC-TWA: 3 mg/m ³ 8 hours. Form: total dust
zinc oxide	GBZ 2.1 (China, 8/2019).
	PC-STEL: 5 mg/m ³ 15 minutes.
	PC-TWA: 3 mg/m ³ 8 hours.
rosin	ACGIH TLV (United States, 1/2021). Skin
	sensitizer. Inhalation sensitizer.
copper oxide	GBZ 2.1 (China, 8/2019).
	PC-TWA: 0.2 mg/m ³ , (as Cu) 8 hours.
	Form: fume
tetraethyl silicate	ACGIH TLV (United States, 1/2021).
	TWA: 85 mg/m ³ 8 hours.
	TWA: 10 ppm 8 hours.
copper	GBZ 2.1 (China, 8/2019).
	PC-TWA: 1 mg/m ³ , (as Cu) 8 hours. Form:
	dust

Product name SIGMA SAILADVANCE DX BROWN

Section 8. Exposure controls/personal protection

Recommended monitoring procedures	: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants 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 controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye protection	: Chemical splash goggles and face shield.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Gloves	: butyl rubber
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	 Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

Section 9. Physical and chemical properties

cal state : Liquid. : Brown.	
: Brown.	
: Characteristic.	
g point : >37.78°C (>100	°F)
point : Closed cup: 20°	'C (68°F)
r and upper explosive : Greatest known nable) limits	range: Lower: 1.3% Upper: 23% (tetraethyl silicate)
ve density : 1.71	
ility : Insoluble in the	following materials: cold water.
sity : Kinematic (40°C	ג): >21 mm²/s
g point: >37.78°C (>100point: Closed cup: 20°r and upper explosive: Greatest knownnable) limits: 1.71ility: Insoluble in the	°C (68°F) range: Lower: 1.3% Upper: 23% (tetraethyl silicat following materials: cold water.

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 materials: carbon oxides nitrogen oxides sulfur oxides halogenated compounds metal oxide/oxides

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
dicopper oxide	LC50 Inhalation Dusts and mists	Rat	3.34 mg/l	4 hours
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	500 mg/kg	-
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
2	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
xylene isomers mixture	LD50 Dermal	Rabbit	1.7 g/kg	-
-	LD50 Oral	Rat	4.3 g/kg	-
zinc oxide	LC50 Inhalation Dusts	Rat	>5700 mg/m ³	4 hours
	and mists		_	
	LD50 Dermal	Rat	>2000 mg/kg	-
				China Page: 9/

Version 14.02

Product name SIGMA SAILADVANCE DX BROWN

Section 11. Toxicological information

LD50 Oral	Rat	>5000 mg/kg	-
LD50 Dermal	Rat	>2000 mg/kg	-
LD50 Oral	Rat	7600 mg/kg	-
LC50 Inhalation Dusts	Rat	70 mg/m ³	4 hours
and mists			
LD50 Oral	Rat	1075 mg/kg	-
LD50 Oral	Rat	>2000 mg/kg	-
LC50 Inhalation Dusts	Rat	0.16 mg/l	4 hours
and mists		_	
LD50 Dermal	Rabbit	3.9 g/kg	-
LD50 Oral	Rat	567 mg/kg	-
LC50 Inhalation Dusts	Rat	10 to 16 mg/l	4 hours
and mists		-	
LD50 Dermal	Rabbit	5.878 g/kg	-
LD50 Oral	Rat	6270 mg/kg	-
LC50 Inhalation Dusts	Rat	>5.11 mg/l	4 hours
and mists		-	
	LD50 Dermal LD50 Oral LC50 Inhalation Dusts and mists LD50 Oral LD50 Oral LC50 Inhalation Dusts and mists LD50 Dermal LD50 Oral LC50 Inhalation Dusts and mists LD50 Dermal LD50 Dermal LD50 Oral LD50 Oral LD50 Oral LD50 Oral	LD50 DermalRatLD50 OralRatLC50 Inhalation DustsRatand mistsRatLD50 OralRatLD50 OralRatLC50 Inhalation DustsRatand mistsRatLD50 DermalRatLD50 OralRatLD50 OralRatLD50 OralRatLD50 DermalRatLD50 OralRatLD50 DermalRatLD50 DermalRatLD50 DermalRatLD50 DermalRabbitLD50 OralRatLD50 OralRatLD50 OralRatLD50 OralRatLD50 OralRat	LD50 DermalRat>2000 mg/kgLD50 OralRat7600 mg/kgLC50 Inhalation DustsRat70 mg/m³and mistsRat1075 mg/kgLD50 OralRat>2000 mg/kgLD50 OralRat>2000 mg/kgLD50 OralRat>2000 mg/kgLC50 Inhalation DustsRat0.16 mg/land mistsRat0.16 mg/lLD50 DermalRat567 mg/kgLD50 OralRat10 to 16 mg/land mistsRat5.878 g/kgLD50 DermalRat6270 mg/kgLD50 OralRat5.11 mg/l

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
version isomers mixture	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Talc , not containing asbestiform fibres	Category 3	-	Respiratory tract irritation
4,5-dichloro-2-octyl-2H-isothiazol-3-one	Category 3	-	Respiratory tract irritation
tetraethyl silicate	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
ethylbenzene	Category 2	-	-

Aspiration hazard

China	Page: 10/15
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Product name SIGMA SAILADVANCE DX BROWN

Section 11. Toxicological information

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Name			Result
ethylbenzene			ASPIRATION HAZARD - Category 1
<u> </u>			ļ
Information on the likely routes of exposure	:	Not available.	
Potential acute health effects	<u>s</u>		
Eye contact	1	Causes serious eye damage.	
Inhalation	:	Harmful if inhaled.	
Skin contact	:	May be harmful in contact with skin. Ca May cause an allergic skin reaction.	auses skin irritation. Defatting to the skin.
Ingestion	:	Harmful if swallowed.	
Symptoms related to the phy	<u>ysic</u>	al, chemical and toxicological charac	teristics
Eye contact	:	Adverse symptoms may include the foll pain watering redness	lowing:
Inhalation	1	No specific data.	
Skin contact	:	Adverse symptoms may include the foll pain or irritation redness dryness cracking blistering may occur	lowing:
Ingestion	:	Adverse symptoms may include the foll stomach pains	lowing:
Delayed and immediate effect	cts a	and also chronic effects from short a	nd long term exposure
Short term exposure			
Potential immediate effects	:	Not available.	
Potential delayed effects	1	Not available.	
Long term exposure			
Potential immediate effects	:	Not available.	
Potential delayed effects	:	Not available.	
Potential chronic health eff	ect	2	
General	:	May cause damage to organs through p or repeated contact can defat the skin a dermatitis. Once sensitized, a severe a subsequently exposed to very low level	allergic reaction may occur when
Carcinogenicity	:	Suspected of causing cancer. Risk of exposure.	cancer depends on duration and level of
Mutagenicity	:	No known significant effects or critical h	nazards.
Reproductive toxicity	:	No known significant effects or critical h	nazards.

Numerical measures of toxicity

Section 11. Toxicological information

Acute toxicity estimates

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 BROWN	1030.2	2860.3	N/A	15.3	1.3
dicopper oxide	500	2500	N/A	N/A	3.34
ethylbenzene	3500	17800	N/A	17.8	1.5
xylene isomers mixture	4300	1700	N/A	11	1.5
zinc oxide	N/A	2500	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
4,5-dichloro-2-octyl-2H-isothiazol-3-one	567	1100	N/A	N/A	0.16
tetraethyl silicate	6270	5878	N/A	N/A	N/A

Other information

Prolonged or repeated contact may dry skin and cause irritation. Sanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing.

Section 12. Ecological information

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Toxicity

Product/ingredient name	Result	Species	Exposure
dicopper 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
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	-	-

Date of issue 30 May 2022

Version 14.02

Product name SIGMA SAILADVANCE DX BROWN

Section 12. Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
ethylbenzene xylene isomers mixture	-	-	Readily Readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
ethylbenzene	3.6	79.43	low
xylene isomers mixture	3.12	7.4 to 18.5	low
rosin	1.9 to 7.7	-	high
tetraethyl silicate	3.18	-	low

Mobility in soil

Soil/water partition	: Not available.
coefficient (Koc)	

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

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

UN1263 PAINT 3	UN1263 PAINT 3	UN1263 PAINT 3
3	3	3
II		II

Version 14.02

Product name SIGMA SAILADVANCE DX BROWN

Section 14. Transport information

Environmental	Yes. The	Yes. The	Yes.	Yes. The
hazards	environmentally	environmentally	100.	environmentally
	hazardous substance mark is not required.	hazardous substance mark is not required.		hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	Not applicable.	(dicopper oxide, zinc oxide)	Not applicable.

Additional information

CN	: None identified.
UN	: None identified.
IMDG	: The marine pollutant mark is not required when transported in sizes of ≤ 5 L or ≤ 5 kg.
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.

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

Transport in bulk according : Not applicable. to IMO instruments

Section 15. Regulatory information

China inventory (IECSC)	: All components are listed or exempted.
References	: Production Safety Law of the People's Republic of China
	Code of Occupational Disease Prevention of the People's Republic of China
	Environmental Protection Law of the People's Republic of China
	Fire Control Law of the People's Republic of China
	Regulations on the Control over Safety of Dangerous Chemicals
	Occupational exposure limits for hazardous agents in the workplace chemical
	hazardous agents (GBZ2.1)
	General rule for classification and hazard communication of chemicals (GB13690)

of chemicals (GB30000.2-29)

Safety data sheet for chemical products - Content and order of sections (GB/ T16483) Guidance on the compilation of safety data sheet for chemical products (GB/ T17519) General rule for preparation of precautionary label for chemicals (GB15258) Safety rules for classification, precautionary labeling and precautionary statements

Section 16. Other information

<u>History</u>	
Date of issue/Date of revision	: 30 May 2022
Date of previous issue	: 4/13/2022
Version	: 14.02
	EHS

Product name SIGMA SAILADVANCE DX BROWN

Date of issue 30 May 2022

Section 16. Other information

Key to abbreviations	: ADN = European Provisions concerning the International Carriage of Dangerous
	Goods by Inland Waterway
	ADR = The European Agreement concerning the International Carriage of
	Dangerous Goods by Road
	ATE = Acute Toxicity Estimate
	BCF = Bioconcentration Factor
	GHS = Globally Harmonized System of Classification and Labelling of Chemicals
	IATA = International Air Transport Association
	IMDG = International Maritime Dangerous Goods
	LogPow = logarithm of the octanol/water partition coefficient
	MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
	RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
	UN = United Nations

✓ Indicates information that has changed from previously issued version.

Notice to reader

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.