## **SAFETY DATA SHEET**



Date of issue/Date of revision 31 October 2023 Version 6

# Section 1. Identification of the substance/mixture and of the company/undertaking

Product code	: 00371224
Product name	: SIGMA SAILADVANCE RX BROWN
Other means of identification	: Not available.
Product type	: Liquid.

Relevant identified uses of the substance or mixture and uses advised again	st

Product use	<ul> <li>Antifouling products Professional applications, Used by spraying.</li> </ul>
Uses advised against	: Product is not intended, labelled or packaged for consumer use.
Supplier's details	: PPG Coatings (Thailand) Co., Ltd. 15 Rama 9 Road, Kwaeng Huamark, Khet Bangkapi, Bangkok 10240 Thailand T: 662-319-4190 #224 F: 662-319-4189
Emergency telephone number (with hours of operation)	: CHEMTREC 001-800-13-203-9987 (CCN 17704)

## Section 2. Hazards identification

Classification of the substance or mixture	<ul> <li>FLAMMABLE LIQUIDS - Category 3</li> <li>ACUTE TOXICITY (oral) - Category 4</li> <li>ACUTE TOXICITY (dermal) - Category 5</li> <li>ACUTE TOXICITY (inhalation) - Category 4</li> <li>SKIN CORROSION/IRRITATION - Category 2</li> <li>SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1</li> <li>SKIN SENSITIZATION - Category 1B</li> <li>CARCINOGENICITY - Category 1</li> <li>AQUATIC HAZARD (ACUTE) - Category 1</li> <li>AQUATIC HAZARD (LONG-TERM) - Category 1</li> <li>Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 13.2%</li> <li>Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 27.5%</li> </ul>
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## Section 2. Hazards identification

Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 4.6%

GHS label elements		
Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	<ul> <li>Flammable liquid and vapor.</li> <li>Harmful if swallowed or if inhaled.</li> <li>May be harmful in contact with skin.</li> <li>Causes skin irritation.</li> <li>May cause an allergic skin reaction.</li> <li>Causes serious eye damage.</li> <li>May cause cancer.</li> <li>Very toxic to aquatic life with long lasting effects.</li> </ul>
Precautionary statements		
Prevention	:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. 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. Avoid breathing 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.
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. Take off contaminated clothing and wash before reuse. Wash contaminated clothing 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	1	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.
Other hazards which do not result in classification	:	Prolonged or repeated contact may dry skin and cause irritation.

## Section 3. Composition/information on ingredients

Substance/mixture : Mixture

### **CAS number/other identifiers**

CAS number

: Not applicable.

Ingredient name	%	CAS number
dicopper oxide	25- <50	1317-39-1
rosin	10- <20	8050-09-7
zinc oxide	10- <20	1314-13-2
4-methylpentan-2-one	5- <10	108-10-1
Solvent naphtha (petroleum), light aromatic	5- <10	64742-95-6
zineb (ISO)	3 - <5	12122-67-7
1,2,4-trimethylbenzene	3 - <5	95-63-6
calcium carbonate	3 - <5	471-34-1
12-hydroxyoctadecanoic acid, reaction products with	1- <3	220926-97-6
1,3-benzenedimethanamine and hexamethylenediamine		
ethylbenzene	1- <3	100-41-4
copper oxide	0.3 - <1	1317-38-0
copper	0.1- <0.3	7440-50-8
p-mentha-1,4(8)-diene	0.1- <0.3	586-62-9
cumene	0.1- <0.3	98-82-8

There are no 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.

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

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

SUB codes represent substances without registered CAS Numbers.

## Section 4. First aid measures

Description of necessary first aid measures

Eye contact	: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
Inhalation	<ul> <li>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.</li> </ul>
Skin contact	<ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.</li> </ul>
Ingestion	<ul> <li>If swallowed, seek medical advice immediately and show this container or label.</li> <li>Keep person warm and at rest. Do NOT induce vomiting.</li> </ul>

Most important symptoms/effects, acute and delayed

### Potential acute health effects

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Section 4. First aid measures		
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/sym	<u>otoms</u>	
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 me	dical 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 <sub>2</sub> , 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.

## Section 5. Fire-fighting measures

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, protect	ve 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 co	tainment 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 effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, 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.

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## Section 7. Handling and storage

Precautions for safe handling	Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Conditions for safe storage, including any incompatibilities	Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

### **Control parameters**

### **Occupational exposure limits**

Ingredient name	Exposure limits
dicopper oxide	ACGIH TLV (United States, 1/2022).
	[Copper Fume]
	TWA: 0.2 mg/m <sup>3</sup> 8 hours. Form: Fume
rosin	ACGIH TLV (United States, 1/2022). [resin
	acids as total Resin acids] Skin sensitizer.
	Inhalation sensitizer.
	TWA: 0.001 mg/m³, (as total Resin acids) 8
	hours. Form: Inhalable fraction
zinc oxide	Ministry of Labor (Thailand, 8/2017). [zinc
	oxide fume]
	TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Fume
	Ministry of Labor (Thailand, 8/2017). [zinc
	oxide]
	TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable
	dust
	TWA: 15 mg/m <sup>3</sup> 8 hours. Form: inhalable
	dust
4-methylpentan-2-one	Ministry of Labor (Thailand, 8/2017).
	TWA: 100 ppm 8 hours.

## Section 8. Exposure controls/personal protection

1,2,4-trimethylbenzene		ACGIH TLV (United States, 1/2022).		
		TWA: 10 ppm 8 hours.		
calcium carbonate		ACGIH TLV (United States).		
		TWA: 3 mg/m <sup>3</sup> Form: Respirable		
		TWA: 10 mg/m <sup>3</sup> Form: Total dust		
12-hydroxyoctadecanoic acid		ACGIH TLV (United States).		
1,3-benzenedimethanamine	and nexamethylehediamine	TWA: 10 mg/m <sup>3</sup> Form: Inhalable particle		
		TWA: 3 mg/m <sup>3</sup> , (inhalable dust) Form:		
		Respirable particle		
ethylbenzene		Ministry of Labor (Thailand, 8/2017).		
		TWA: 100 ppm 8 hours.		
copper oxide		ACGIH TLV (United States, 1/2022).		
		[Copper Fume]		
		TWA: 0.2 mg/m <sup>3</sup> 8 hours. Form: Fume		
copper		ACGIH TLV (United States, 1/2022).		
		[Copper Dusts and mists, as Cu]		
		TWA: 1 mg/m³, (as Cu) 8 hours. Form:		
		Dust and mist ACGIH TLV (United States, 1/2022).		
		[Copper Fume]		
		TWA: 0.2 mg/m <sup>3</sup> 8 hours. Form: Fume		
cumene		Ministry of Labor (Thailand, 8/2017). TWA: 50 ppm 8 hours.		
Recommended monitoring procedures		propriate monitoring standards. Reference to methods for the determination of hazardous		
Appropriate engineering controls	ventilation or other engineering contaminants below any recomm	n. Use process enclosures, local exhaust ontrols to keep worker exposure to airborne ended or statutory limits. The engineering contro lust concentrations below any lower explosive ation equipment.		
	- 1 1			
Environmental exposure		k process equipment should be checked to ensur		
Environmental exposure controls	: Emissions from ventilation or wor they comply with the requirement	k process equipment should be checked to ensur s of environmental protection legislation. In some		
	: Emissions from ventilation or wor they comply with the requirement cases, fume scrubbers, filters or	k process equipment should be checked to ensure s of environmental protection legislation. In some engineering modifications to the process		
	: Emissions from ventilation or wor they comply with the requirement cases, fume scrubbers, filters or	k process equipment should be checked to ensus s of environmental protection legislation. In some		
	: Emissions from ventilation or wor they comply with the requirement cases, fume scrubbers, filters or equipment will be necessary to re	k process equipment should be checked to ensure s of environmental protection legislation. In some engineering modifications to the process		
controls	: Emissions from ventilation or wor they comply with the requirement cases, fume scrubbers, filters or equipment will be necessary to re	k process equipment should be checked to ensur s of environmental protection legislation. In some engineering modifications to the process educe emissions to acceptable levels.		
controls	<ul> <li>Emissions from ventilation or wor they comply with the requirement cases, fume scrubbers, filters or equipment will be necessary to re</li> <li>Wash hands, forearms and face eating, smoking and using the law Appropriate techniques should be Contaminated work clothing should</li> </ul>	k process equipment should be checked to ensur s of environmental protection legislation. In some engineering modifications to the process educe emissions to acceptable levels. thoroughly after handling chemical products, befor vatory and at the end of the working period. e used to remove potentially contaminated clothing ild not be allowed out of the workplace. Wash sing. Ensure that eyewash stations and safety		
controls	<ul> <li>Emissions from ventilation or wor they comply with the requirement cases, fume scrubbers, filters or equipment will be necessary to re</li> <li>Wash hands, forearms and face eating, smoking and using the lay Appropriate techniques should be Contaminated work clothing shou contaminated clothing before reus</li> </ul>	k process equipment should be checked to ensur s of environmental protection legislation. In some engineering modifications to the process educe emissions to acceptable levels. thoroughly after handling chemical products, before vatory and at the end of the working period. e used to remove potentially contaminated clothing ild not be allowed out of the workplace. Wash sing. Ensure that eyewash stations and safety tion location.		

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## Section 8. Exposure controls/personal 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	<ul> <li>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.</li> </ul>
Other skin protection	<ul> <li>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.</li> </ul>
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	: Brown.
Odor	: Characteristic.
Odor threshold	: Not available.
рН	: insoluble in water.
Melting point	<ul> <li>May start to solidify at the following temperature: -43.77°C (-46.8°F) This is based on data for the following ingredient: 1,2,4-trimethylbenzene. Weighted average: -70.25°C (-94.5°F)</li> </ul>
Boiling point	: >37.78°C (>100°F)
Flash point	: Closed cup: 34°C (93.2°F)
Evaporation rate	<ul> <li>Highest known value: 1.7 (4-methylpentan-2-one) Weighted average: 1.61compared with butyl acetate</li> </ul>
Flammability (solid, gas)	: liquid
Lower and upper explosive (flammable) limits	: Greatest known range: Lower: 1.4% Upper: 7.6% (Solvent naphtha (petroleum), light aromatic)
Vapor pressure	<ul> <li>Highest known value: 2.1 kPa (15.8 mm Hg) (at 20°C) (4-methylpentan-2-one).</li> <li>Weighted average: 1.02 kPa (7.65 mm Hg) (at 20°C)</li> </ul>
Vapor density	: Highest known value: 4.1 (Air = 1) (1,2,4-trimethylbenzene). Weighted average: 3.67 (Air = 1)
Relative density	: 1.69

## Section 9. Physical and chemical properties

Solubility(ies)		Media	Result	
		cold water	Not soluble	
Partition coefficient: n- octanol/water	:	Not applicable.		
Auto-ignition temperature	:	Lowest known value: 28 light aromatic).	0 to 470°C (536 to 878°F) (Solvent naphtha (petroleum),	
Decomposition temperature	:	Stable under recommended storage and handling conditions (see Section 7).		
Viscosity	:	Kinematic (40°C): >21 mm²/s		

## Section 10. Stability and reactivity

Hazardous decomposition products	<ul> <li>Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides metal oxide/oxides</li> </ul>
Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Chemical stability	: The product is stable.
Reactivity	: No specific test data related to reactivity available for this product or its ingredients.

## 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	-
rosin	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	7600 mg/kg	-
zinc oxide	LC50 Inhalation Dusts and mists	Rat	>5700 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
4-methylpentan-2-one	LC50 Inhalation Vapor	Rat	11 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	2.08 g/kg	-
Solvent naphtha (petroleum), light aromatic	LD50 Dermal	Rabbit	3.48 g/kg	-
	LD50 Oral	Rat	8400 mg/kg	-
zineb (ISO)	LD50 Oral	Rat	>2000 mg/kg	-

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## Section 11. Toxicological information

1,2,4-trimethylbenzene	LC50 Inhalation Vapor	Rat	18000 mg/m <sup>3</sup>	4 hours
	LD50 Oral	Rat	5 g/kg	-
calcium carbonate	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	6450 mg/kg	-
12-hydroxyoctadecanoic acid,	LC50 Inhalation Dusts and mists	Rat	3.56 mg/l	4 hours
reaction products with			_	
1,3-benzenedimethanamine and				
hexamethylenediamine				
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
copper oxide	LD50 Oral	Rat	>2000 mg/kg	-
copper	LC50 Inhalation Dusts and mists	Rat	>5.11 mg/l	4 hours
p-mentha-1,4(8)-diene	LD50 Oral	Rat	4390 mg/kg	-
cumene	LC50 Inhalation Vapor	Rat	39000 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	12.3 g/kg	-
	LD50 Oral	Rat	2260 mg/kg	-

**Conclusion/Summary** : There are no data available on the mixture itself.

### Irritation/Corrosion

Conclusion/Summary	
Skin	: There are no data available on the mixture itself.
Eyes	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
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### **Sensitization**

Product/ingredient name	Route of exposure	Species	Result
zineb (ISO)	skin	Guinea pig	Sensitizing
Conclusion/Summary	·		·
Skin :	There are no data	available on the mixture itself.	
Respiratory :	There are no data	available on the mixture itself.	
Mutagenicity			
Conclusion/Summary :	There are no data	available on the mixture itself.	
Carcinogenicity			
Conclusion/Summary :	There are no data	available on the mixture itself.	
Reproductive toxicity			
Conclusion/Summary :	There are no data	available on the mixture itself.	
Teratogenicity			
Conclusion/Summary :	There are no data	available on the mixture itself.	
Specific target organ toxici	t <u>y (single exposure</u>	<u>e)</u>	

## Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
✓-methylpentan-2-one	Category 3	-	Narcotic effects
Solvent naphtha (petroleum), light aromatic	Category 3	-	Narcotic effects
zineb (ISO)	Category 3	-	Respiratory tract irritation
1,2,4-trimethylbenzene	Category 3	-	Respiratory tract irritation
cumene	Category 3	-	Respiratory tract irritation

### Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
P-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	Category 2	inhalation	lungs
ethylbenzene cumene	Category 2 Category 2	-	hearing organs -

### **Aspiration hazard**

Name	Result
Solvent naphtha (petroleum), light aromatic	ASPIRATION HAZARD - Category 2 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

## Information on the likely : Not available. routes of exposure

Potential acute health 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	1	Harmful if swallowed.

### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: pain watering redness

Inhalation

: No specific data.

### Section 11. Toxicological information

Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur
Ingestion	<ul> <li>Adverse symptoms may include the following: stomach pains</li> </ul>

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.
<u>Long term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	ects
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	: $M$ ay cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

### Numerical measures of toxicity

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### Acute toxicity estimates

Route	ATE value
Oral	1522.06 mg/kg
Dermal	3502.07 mg/kg
Inhalation (vapors)	66.19 mg/l
Inhalation (dusts and mists)	3.93 mg/l

### 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.

Readily

Product name SIGMA SAILADVANCE RX BROWN

## Section 12. Ecological information

### **Toxicity**

Fish Algae Daphnia - <i>Daphnia magna</i> - Neonate Algae Fish Fish Algae Algae - <i>Pseudokirchneriella</i> <i>subcapitata (microalgae)</i>	96 hours 72 hours 48 hours 72 hours 96 hours 96 hours 72 hours 72 hours
Daphnia - <i>Daphnia magna</i> - Neonate Algae Fish Fish Algae Algae - <i>Pseudokirchneriella</i>	48 hours 72 hours 96 hours 96 hours 72 hours
Neonate Algae Fish Fish Algae Algae - <i>Pseudokirchneriella</i>	72 hours 96 hours 96 hours 72 hours
Fish Fish Algae Algae - <i>Pseudokirchneriella</i>	96 hours 96 hours 72 hours
Fish Algae Algae - <i>Pseudokirchneriella</i>	96 hours 72 hours
Algae Algae - <i>Pseudokirchneriella</i>	72 hours
Algae - Pseudokirchneriella	
	72 hours
Daphnia - <i>Daphnia magna</i> (Water flea)	48 hours
Fish - Oncorhynchus mykiss (rainbow trout)	96 hours
Algae - Pseudokirchneriella subcapitata	72 hours
Daphnia - Daphnia magna (Water flea)	21 days
Daphnia	48 hours
•	-
Fish	96 hours
(F(ASE(EEF	Water flea) Fish - Oncorhynchus mykiss Frainbow trout) Algae - Pseudokirchneriella Subcapitata Daphnia - Daphnia magna Water flea) Daphnia Daphnia - Ceriodaphnia dubia

### Persistence/degradability

Product/ingredient name	Test	Result	Dose	Inoculum
-methylpentan-2-one	OECD 301F	83 % - Readily - 28		-
12-hydroxyoctadecanoic	OECD 301D	9 % - Not readily - 2	9 days -	-
acid, reaction products with	Ready			
1,3-benzenedimethanamine	Biodegradability -			
and hexamethylenediamine	Closed Bottle			
2	Test			
ethylbenzene	-	79 % - Readily - 10	days -	-
Conclusion/Summary : There are no data available on the mixture itself.				
Product/ingredient name	Aquatic half-life		Photolysis	Biodegradability
4-methylpentan-2-one	-		-	Readily

### **Bioaccumulative potential**

ethylbenzene

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## Section 12. Ecological information

Product/ingredient name	LogPow	BCF	Potential
<b>r</b> osin	1.9 to 7.7	-	High
4-methylpentan-2-one	1.9	-	Low
zineb (ISO)	1.3	-	Low
1,2,4-trimethylbenzene	3.63	120.23	Low
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	>6	-	High
ethylbenzene	3.6	79.43	Low
p-mentha-1,4(8)-diene	4.47	-	High
cumene	3.55	35.48	Low

### Mobility in soil

Soil/water partition	: Not availa
coefficient (Koc)	
Other adverse effects	: No known

able.

: 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 contact with soil, waterways, drains and
	sewers.

## Section 14. Transport information

	UN	IMDG	ΙΑΤΑ
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class(es)	3	3	3
Packing group	III	III	
Environmental hazards	Yes. The environmentally hazardous substance mark is not required.	Yes.	Yes. The environmentally hazardous substance mark is not required.

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Product code 00371224

Product name SIGMA SAILADVANCE RX BROWN

### Date of issue 31 October 2023 Version 6

## Section 14. Transport information

Marine pollutant	Not applicable.	(dicopper oxide, zinc oxide)	Not applicable.
substances			

### Additional information

UN

IMDG

ΙΑΤΑ

- : None identified.
  - : The marine pollutant mark is not required when transported in sizes of  $\leq 5$  L or  $\leq 5$  kg.
  - : 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

#### Harmful Chemicals List :

: Listed

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

### International regulations

### Montreal Protocol

Not listed.

### Stockholm Convention on Persistent Organic Pollutants Not listed.

## Section 16. Other information

<u>History</u>	
Date of issue/Date of revision	: 31 October 2023
Date of previous issue	: 9/22/2022
Version	: 6
Prepared by	: EHS
Key to abbreviations	<ul> <li>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</li> </ul>

### Section 16. Other information

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

**V** 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.