# **SAFETY DATA SHEET**



Date of issue/Date of revision 18 April 2024 Version 1

Section 1. Identification		
Product name	: SIGMA SAILADVANCE RX REDBROWN	
Product code	: 000001201870	
Other means of identification	: 00476947	
Product type	: Liquid.	
Relevant identified uses of	the substance or mixture and uses advised against	
Product use	: Professional applications, Used by spraying.	
Use of the substance/ mixture	: Antifouling products	
Uses advised against	: Not applicable.	
Manufacturer	: PPG Industries, Inc. One PPG Place Pittsburgh, PA 15272	
Emergency telephone number	: (412) 434-4515 (U.S.) (514) 645-1320 (Canada) SETIQ Interior de la República: 800-00-214-00 (México) SETIQ Ciudad de México: (55) 5559-1588 (México)	
Technical Phone Number	: 888-977-4762	

# Section 2. Hazards identification

OSHA/HCS status	<ul> <li>This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).</li> </ul>
Classification of the substance or mixture	<ul> <li>FLAMMABLE LIQUIDS - Category 3         <ul> <li>ACUTE TOXICITY (oral) - Category 4</li> <li>ACUTE TOXICITY (inhalation) - Category 4</li> <li>SKIN IRRITATION - Category 2</li> <li>SERIOUS EYE DAMAGE - Category 1</li> <li>SKIN SENSITIZATION - Category 1</li> <li>CARCINOGENICITY - Category 1B</li> </ul> </li> </ul>
	Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 1.3% (oral), 17.3% (dermal), 32.1% (inhalation)
GHS label elements	
Hazard pictograms	

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# Section 2. Hazards identification

Signal word	: Danger
Hazard statements	: Flammable liquid and vapor. Harmful if swallowed or if inhaled. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May cause cancer.
Precautionary statement	<u>s</u>
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 breathing vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.
Response	: 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. Wash contaminated clothing before reuse. IF ON SKIN: 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 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.
Supplemental label elements	: 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. Wash thoroughly after handling. Emits toxic fumes when heated.
Hazards not otherwise classified	: Prolonged or repeated contact may dry skin and cause irritation.

# Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Product name	: SIGMA SAILADVANCE RX REDBROWN
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### Section 3. Composition/information on ingredients

Ingredient name	%	CAS number
dicopper oxide	≥20 - ≤48	1317-39-1
rosin	≥10 - ≤17	8050-09-7
zinc oxide	≥5.0 - ≤10	1314-13-2
Solvent naphtha (petroleum), light aromatic	≥5.0 - ≤10	64742-95-6
4-methylpentan-2-one	≥5.0 - ≤9.8	108-10-1
zineb (ISO)	≥5.0 - ≤8.7	12122-67-7
calcium carbonate	≥5.0 - ≤8.6	471-34-1
1,2,4-trimethylbenzene	≥1.0 - ≤5.0	95-63-6
diiron trioxide	≥1.0 - ≤5.0	1309-37-1
xylene	≥0.10 - ≤2.5	1330-20-7
Talc , not containing asbestiform fibres	≤1.7	14807-96-6
Terpineol	≥1.0 - ≤5.0	8000-41-7
ethylbenzene	<1.0	100-41-4
cumene	<1.0	98-82-8

SUB codes represent substances without registered CAS Numbers.

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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.

### Section 4. First aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

### Description of necessary first aid measures

Eye contact	<ul> <li>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.</li> </ul>
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	<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	: If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	: Causes serious eye damage.	
Inhalation	: Harmful if inhaled.	
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.	
Ingestion	: Harmful if swallowed.	
Over-exposure signs/symptoms		

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### Section 4. First aid measures

Eye contact	: Adverse symptoms may include the following: pain watering
Inhalation	redness : No specific data.
Skin contact	<ul> <li>Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur</li> </ul>
Ingestion	<ul> <li>Adverse symptoms may include the following: stomach pains</li> </ul>

# Indication of immediate medical attention and special treatment needed, if necessaryNotes to physician: In case of inhalation of decomposition products in a fire, symptoms may be delayed.

Specific treatments	The exposed person may need to be kept under medical surveillance for 48 hours. No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
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.

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### 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, protec	tive 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).
Methods and materials for co	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 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.

### Section 7. Handling and storage

#### Precautions for safe handling

Protective measures
 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. 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.

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# Section 7. Handling and storage

Special precautions	:	Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.
Advice on general occupational hygiene	:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
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.

# Section 8. Exposure controls/personal protection

#### **Control parameters**

### **Occupational exposure limits**

Ingredient name	Exposure limits
dicopper oxide	ACGIH TLV (United States, 1/2023).
	[Copper Fume]
	TWA: 0.2 mg/m <sup>3</sup> 8 hours. Form: Fume
rosin	ACGIH TLV (United States, 1/2023). [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	OSHA PEL (United States, 5/2018).
	TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Fume
	TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable
	fraction
	TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust
	ACGIH TLV (United States, 1/2023).
	STEL: 10 mg/m <sup>3</sup> 15 minutes. Form:
	Respirable fraction
	TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable
	fraction
Solvent naphtha (petroleum), light aromatic	None.
4-methylpentan-2-one	ACGIH TLV (United States, 1/2023).
	STEL: 75 ppm 15 minutes.
	TWA: 20 ppm 8 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 410 mg/m <sup>3</sup> 8 hours.
	TWA: 100 ppm 8 hours.
zineb (ISO)	None.
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### Section 8. Exposure controls/personal protection

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
	OSHA PEL (United States).
	TWA: 5 mg/m <sup>3</sup> Form: Respirable
	TWA: 15 mg/m <sup>3</sup>
1,2,4-trimethylbenzene	ACGIH TLV (United States, 1/2023).
	TWA: 10 ppm 8 hours.
diiron trioxide	ACGIH TLV (United States, 1/2023).
	TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable
	fraction
	OSHA PEL (United States, 5/2018).
	TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable
	fraction
	TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust
xylene	OSHA PEL (United States, 5/2018).
xyiene	[Xylenes (o-, m-, p-isomers)]
	TWA: 435 mg/m <sup>3</sup> 8 hours.
	TWA: 435 mg/m 8 hours.
	ACGIH TLV (United States, 1/2023). [p-
	xylene and mixtures containing p-xylene]
	Ototoxicant.
	TWA: 20 ppm 8 hours.
Tala not containing achastiform fibros	ACGIH TLV (United States, 1/2023).
Talc , not containing asbestiform fibres	TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable
	e
	OSHA PEL Z3 (United States). TWA: 2 mg/m <sup>3</sup>
Terpineol	8
	None.
ethylbenzene	ACGIH TLV (United States, 1/2023). Ototoxicant.
	TWA: 20 ppm 8 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 435 mg/m <sup>3</sup> 8 hours.
aumono	TWA: 100 ppm 8 hours. ACGIH TLV (United States, 1/2023).
cumene	TWA: 5 ppm 8 hours.
	OSHA PEL (United States, 5/2018).
	<b>Absorbed through skin.</b> TWA: 245 mg/m³ 8 hours.
	TWA: 243 mg/m² 8 hours.

= Acceptable Maximum Peak S = Potential skin absorption А ACGIH = American Conference of Governmental Industrial Hygienists. SR = Respiratory sensitization С = Ceiling Limit SS = Skin sensitization F = Fume STEL = Short term Exposure limit values IPEL = Internal Permissible Exposure Limit TD = Total dust = Occupational Safety and Health Administration. OSHA TLV = Threshold Limit Value R = Respirable TWA = Time Weighted Average = OSHA 29 CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances Ζ

Consult local authorities for acceptable exposure limits.

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# Section 8. Exposure controls/personal protection

Recommended monitoring procedures	:	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 measur	es	
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/face 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. The respiratory protection shall be in accordance to 29 CFR 1910.134.

# Section 9. Physical and chemical properties

### **Appearance**

- to b o di di la la di				
Physical state	1	Liquid.		
Color	:	Brownish-red.		
Odor	1	Aromatic. [Strong]		
Odor threshold	1	Not available.		
рН	1	Not applicable.		
Melting point	:	Not available.		
Boiling point	1	>37.78°C (>100°F)		
Flash point	1	Closed cup: $27^{\circ}C$ (80.6°F)		
Auto-ignition temperature	1	Not available.		
Decomposition temperature	1	Not available.		
Flammability	:	Not available.		
Lower and upper explosive (flammable) limits	:	Not available.		
Evaporation rate	1	Not available.		
Vapor pressure	1	Not available.		
Vapor density	1	Not available.		
Relative density	1	1.68		
Density(lbs / gal)	1	14.02		
<b>-</b> • • • • • •		Media	Result	
Solubility(ies)	÷	cold water	Not soluble	
Partition coefficient: n- octanol/water	:	Not applicable.		
Viscosity	:	: Kinematic (room temperature): >400 mm²/s (>400 cSt) Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)		
Volatility	1	50% (v/v), 25.299% (w/w)		
% Solid. (w/w)	1	74.701		

# Section 10. Stability and reactivity

Chemical stability: The product is stable.Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not conditions to avoidConditions to avoid: When exposed to high temperatures may produce hazardous decomposi Refer to protective measures listed in sections 7 and 8.Incompatible materials: Keep away from the following materials to prevent strong exothermic reactions	r its ingredients.
reactions         Conditions to avoid       : When exposed to high temperatures may produce hazardous decomposi         Refer to protective measures listed in sections 7 and 8.	
Refer to protective measures listed in sections 7 and 8.	<i>i</i> ill not occur.
Incompatible materials : Keep away from the following materials to prevent strong exothermic read	mposition products.
oxidizing agents, strong alkalis, strong acids.	c reactions:

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# Section 10. Stability and reactivity

Hazardous decomposition products

: Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides 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	-
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	-
Solvent naphtha (petroleum), light aromatic	LD50 Dermal	Rabbit	3.48 g/kg	-
5	LD50 Oral	Rat	8400 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	-
zineb (ISO)	LD50 Oral	Rat	>2000 mg/kg	-
calcium carbonate	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	6450 mg/kg	-
1,2,4-trimethylbenzene	LC50 Inhalation Vapor	Rat	18000 mg/m <sup>3</sup>	4 hours
	LD50 Oral	Rat	5 g/kg	-
diiron trioxide	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours
	LD50 Oral	Rat	10 g/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
,	LD50 Oral	Rat	4.3 g/kg	-
Terpineol	LD50 Oral	Rat	4300 mg/kg	-
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
5	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/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

Product/ingredient name	Result	Species	Score	Exposure	Observation
xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Terpineol	Skin - Irritant	Rabbit	-	-	-
Conclusion/Summary					
Skin	: There are no data available on the mixture itself.				
Eyes	: There are no data available on the mixture itself.				

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### Section 11. Toxicological information

Respiratory

: There are no data available on the mixture itself.

### **Sensitization**

	Doute of	<u> </u>	Charles		Desult		
Product/ingredient name	Route of exposure		Species		Result	Result	
zineb (ISO)	skin		Guinea pig		Sensitizing		
Terpineol	skin		Guinea piç	9	Sensitizing		
Conclusion/Summary							
Skin	: zineb (IS	-	• •				
Respiratory	: There are	no data	a available	on the mixture if	tself.		
<u>Mutagenicity</u>							
Conclusion/Summary	: There are	no data	a available	on the mixture if	tself.		
<b>Carcinogenicity</b>							
<b>Conclusion/Summary</b>	: There are	no data	a available	on the mixture if	tself.		
<b>Classification</b>							
Product/ingredient name	OSHA	IARC	NTP				
4-methylpentan-2-one	-	2B	-				
zineb (ISO) diiron trioxide	-	3	-				
xylene	-	3 3	-				
ethylbenzene	-	2B					
cumene	-	2B	Reasor	hably anticipated	d to be a human ca	rcinogen.	
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							
Conclusion/Summary	: There are	no data	available o	on the mixture its	self.		
<b>Teratogenicity</b>							
· · · · · · · · · · · · · · · · · · ·			available o	on the mixture its	self.		
Specific target organ toxicity	(single exp	<u>osure)</u>					
Name				Category	Route of exposure	Target organs	
Solvent naphtha (petroleum), I	Solvent naphtha (petroleum), light aromatic				-	Narcotic effects	
4-methylpentan-2-one					-	Narcotic effects	
zineb (ISO)				Category 3	-	Respiratory tract irritation	
1,2,4-trimethylbenzene				Category 3	-	Respiratory tract irritation	
xylene				Category 3	-	Respiratory tract irritation	
Talc , not containing asbestiform fibres				Category 3	-	Respiratory tract irritation	
cumene				Category 3	-	Respiratory tract irritation	

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### Section 11. Toxicological information

### Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
ethylbenzene	Category 2	-	hearing organs
cumene	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, gastrointestinal tract, cardiovascular system, upper respiratory tract, skin, eye, lens or cornea.

#### Aspiration hazard

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

#### Information on the likely routes of exposure

Potential acute health effe	ects
Eye contact	: Causes serious eye damage.
Inhalation	: Harmful if inhaled.
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: Harmful if swallowed.
<u>Over-exposure signs/sym</u>	iptoms
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:
ingeotion	stomach pains
Delayed and immediate effo	ects and also chronic effects from short and long term exposure
Conclusion/Summary	: There are no data available on the mixture itself. Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. If splashed in the eyes, the liquid may cause
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Product name SIGMA SAILADVANCE RX REDBROWN

# Section 11. Toxicological information

	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 effects	: There are no data available on the mixture itself.
Potential delayed effects	: There are no data available on the mixture itself.
Potential chronic health eff	ects
General	<ul> <li>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.</li> </ul>
Carcinogenicity	: May 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

#### Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
SIGMA SAILADVANCE RX REDBROWN	1557.1	3382.9	N/A	64.3	3.9
dicopper oxide	500	2500	N/A	N/A	3.34
rosin	7600	2500	N/A	N/A	N/A
zinc oxide	N/A	2500	N/A	N/A	N/A
Solvent naphtha (petroleum), light aromatic	8400	3480	N/A	N/A	N/A
4-methylpentan-2-one	2080	N/A	N/A	11	1.5
zineb (ISO)	2500	N/A	N/A	N/A	N/A
calcium carbonate	6450	2500	N/A	N/A	N/A
1,2,4-trimethylbenzene	5000	N/A	N/A	18	1.5
diiron trioxide	10000	N/A	N/A	N/A	N/A
xylene	4300	1700	N/A	11	1.5
Terpineol	4300	N/A	N/A	N/A	N/A
ethylbenzene	3500	17800	N/A	17.8	1.5
cumene	2260	12300	N/A	39	N/A

# Section 12. Ecological information

### **Toxicity**

Product/ingredient name	Result	Species	Exposure
dicopper 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 - <i>Daphnia magna</i> - Neonate	48 hours
	Chronic NOEC 0.017 mg/l Fresh water	Algae	72 hours
Solvent naphtha (petroleum), light aromatic	Acute LC50 8.2 mg/l	Fish	96 hours
4-methylpentan-2-one	Acute LC50 >179 mg/l	Fish	96 hours
calcium carbonate	Acute EC10 >14 mg/l	Algae	72 hours
diiron trioxide	Acute EC50 >100 mg/l	Daphnia	48 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
,	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-

#### Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
4-methylpentan-2-one ethylbenzene	OECD 301F -		dily - 28 days dily - 10 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
4-methylpentan-2-one xylene ethylbenzene			- -		Readily Readily Readily	

### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential	
rosin	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	
xylene	3.12	7.4 to 18.5	Low	
Terpineol	2.6	-	Low	
ethylbenzene	3.6	79.43	Low	
cumene	3.55	35.48	Low	

### Mobility in soil

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

### 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.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

14. Transport	information
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	DOT	IMDG	ΙΑΤΑ		
UN number	UN1263	UN1263	UN1263		
UN proper shipping name	PAINT	PAINT	PAINT		
Transport hazard class (es)	3	3	3		
Packing group	111	Ш	111		
Environmental hazards	No.	Yes.	Yes. The environmentally hazardous substance mark is not required.		
Marine pollutant substances	Not applicable.	(dicopper oxide)	Not applicable.		
Product RQ (lbs)	6408.3	Not applicable.	Not applicable.		
RQ substances	(xylene)	Not applicable.	Not applicable.		

#### **Additional information**

DOT	: Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.
IMDG	This class 3 viscous liquid that is also environmentally hazardous is not subject to regulation in packagings up to 5 L, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8 according to 2.3.2.5.
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.

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### 14. Transport information

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

#### United States

United States inventory (TSCA 8b) : At least one component is not listed.

#### SARA 302/304

SARA 304 RQ : Not applicable.

**Composition/information on ingredients** 

No products were found.

### SARA 311/312

Classification	: FLAMMABLE LIQUIDS - Category 3
	ACUTE TOXICITY (oral) - Category 4
	ACUTE TOXICITY (inhalation) - Category 4
	SKIN IRRITATION - Category 2
	SERIOUS EYE DAMAGE - Category 1
	SKIN SENSITIZATION - Category 1
	CARCINOGENICITY - Category 1B
	HNOC - Defatting irritant

#### **Composition/information on ingredients**

Name	%	Classification
dicopper oxide	≥20 - ≤48	ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 4
rosin	≥10 - ≤17	SERIOUS EYE DAMAGE - Category 1 COMBUSTIBLE DUSTS SKIN SENSITIZATION - Category 1B
Solvent naphtha (petroleum), light aromatic	≥5.0 - ≤10	FLAMMABLE LIQUIDS - Category 3 SKIN IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 1 HNOC - Defatting irritant
4-methylpentan-2-one	≥5.0 - ≤9.8	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
zineb (ISO)	≥5.0 - ≤8.7	HNOC - Defatting irritant COMBUSTIBLE DUSTS SKIN SENSITIZATION - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
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### Section 15. Regulatory information

1,2,4-trimethylbenzene	≥1.0 - ≤5.0	FLAMMABLE LIQUIDS - Category 3
		ACUTE TOXICITY (inhalation) - Category 4
		SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Respiratory tract irritation) - Category 3
		HNOC - Defatting irritant
xylene	≥0.10 - ≤2.5	FLAMMABLE LIQUIDS - Category 3
		ACUTE TOXICITY (dermal) - Category 4
		ACUTE TOXICITY (inhalation) - Category 4
		SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Respiratory tract irritation) - Category 3
		ASPIRATION HAZARD - Category 1
Talc , not containing asbestiform	≤1.7	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
fibres		(Respiratory tract irritation) - Category 3
Terpineol	≥1.0 - ≤5.0	FLAMMABLE LIQUIDS - Category 4
		SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		SKIN SENSITIZATION - Category 1B
		ASPIRATION HAZARD - Category 1
ethylbenzene	<1.0	FLAMMABLE LIQUIDS - Category 2
		ACUTE TOXICITY (inhalation) - Category 4
		CARCINOGENICITY - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		EXPOSURE) - Category 2
		ASPIRATION HAZARD - Category 1
		HNOC - Defatting irritant
cumene	<1.0	FLAMMABLE LIQUIDS - Category 3
		CARCINOGENICITY - Category 1B
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Respiratory tract irritation) - Category 3
		SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		EXPOSURE) - Category 2
		ASPIRATION HAZARD - Category 1
		HNOC - Defatting irritant
	1	

#### <u>SARA 313</u>

Our relier restifiestion	Chemical name	CAS number	Concentration
Supplier notification	: dicopper oxide	1317-39-1	10 - 30
	zinc oxide	1314-13-2	5 - 10
	4-methylpentan-2-one	108-10-1	5 - 10
	zineb (ISO)	12122-67-7	3 - 7
	1,2,4-trimethylbenzene	95-63-6	1 - 5
	xylene	1330-20-7	1 - 5
	ethylbenzene	100-41-4	0.1 - 1
	cumene	98-82-8	0.1 - 1
	lead monoxide	1317-36-8	0.002733

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

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### Product name SIGMA SAILADVANCE RX REDBROWN

# Section 15. Regulatory information

Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

### California Prop. 65

MARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

### Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health : 3 \* Flammability : 3 Physical hazards : 1

(\*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on MSDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

# The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)

Health : 3 Flammal Date of previous issue Organization that prepared the SDS	<pre>bility : 3 Instability : 1 : No previous validation : EHS</pre>
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IBC = 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) N/A = Not available SGG = Segregation Group UN = United Nations

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.