# **SAFETY DATA SHEET**



#### Date of issue 16 December 2024

Version 3.02

### Section 1. Product and company identification

Product name
Product code
Other means of identification
Product type

- : PPG SIGMA SAILADVANCE RX REDBROWN
- : 00444779
- : Not available.
- : Liquid.

#### Relevant identified uses of the substance or mixture and uses advised against

#### **Identified uses**

Coating. Paints. Painting-related materials.

Uses advised against	Reason
Not applicable.	

Supplier's details:	
Supplier	<ul> <li>PPG Industrial do Brasil – Tintas e Vernizes Ltda</li> <li>Via Anhanguera KM 106, Bairro Sao Judas Tadeu</li> <li>Sumare / SP, Brasil</li> <li>55 19 2103-6000 (Recepção e Portaria)</li> </ul>
Email address:	: HazComLatam@ppg.com
Emergency telephone number	: 0800 707 1767 / 0800 707 7022 – Empresa Suatrans Cotec 0800 14 8110 – CEATOX - Centro de Assistência Toxicológica

### Section 2. Hazards identification

Classification of the substance or mixture	: FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 5 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2 AQUATIC HAZARD (ACUTE) - Category 1
Target organs	<ul> <li>AQUATIC HAZARD (LONG-TERM) - Category 1</li> <li>Contains material which causes damage to the following organs: brain, central nervous system (CNS).</li> <li>Contains material which may cause damage to the following organs: blood, kidneys, lungs, the nervous system, liver, gastrointestinal tract, upper respiratory tract, skin, eye, lens or cornea.</li> </ul>

Code 00444779 Product name PPG SIG	Date of issue MA SAILADVANCE RX REDBROWN	16 December 2024	Version	3.02
Section 2. Hazar	ds identification			
	Percentage of the mixture consist 7.9%	ting of ingredient(s) of unk	nown acute o	ral toxicity:
	Percentage of the mixture consist toxicity: 27.9%	ting of ingredient(s) of unk	nown acute d	ermal
	Percentage of the mixture consist toxicity: 31.1%	ting of ingredient(s) of unk	nown acute ir	nhalation
	Fercentage of the mixture consist aquatic environment: 9.5%	ting of ingredient(s) of unk	nown hazards	s to the
GHS label elements				
Hazard pictograms				
		<b>&gt; 〈!〉 〈</b> 芝	2	

: Danger

Signal word

result in classification

Hazard statements	:	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. Very toxic to aquatic life with long lasting effects.
Precautionary statements		
Prevention	:	Obtain special instructions before use. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Avoid release to the environment. Avoid breathing vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.
Response	:	Collect spillage. IF exposed or concerned: Get medical advice or attention. IF INHALED: Call a POISON CENTER or doctor if you feel unwell. 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. Take off contaminated clothing and wash it before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
Storage	:	Store in a well-ventilated place. Keep cool.
Disposal	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Other hazards which do not	:	Prolonged or repeated contact may dry skin and cause irritation.

English (US)

South America

### Section 3. Composition/information on ingredients

#### Substance/mixture Other means of identification

**CAS number** 

: Mixture

: Not available.

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

: Not applicable.

Ingredient name	%	CAS number
dicopper oxide	20 - <30	1317-39-1
rosin	10 - <12.5	8050-09-7
zinc oxide	10 - <12.5	1314-13-2
4-methylpentan-2-one	7 - <10	108-10-1
diiron trioxide	5 - <7	1309-37-1
Solvent naphtha (petroleum), light aromatic	5 - <7	64742-95-6
zineb (ISO)	3 - <5	12122-67-7
Propane, 1-(ethenyloxy)-2-methyl-, polymer with chloroethene	3 - <5	25154-85-2
1,2,4-trimethylbenzene	3 - <5	95-63-6
3-ethyltoluene	3 - <5	620-14-4
xylene	1 - <2	1330-20-7
12-hydroxyoctadecanoic acid, reaction products with	1 - <2	220926-97-6
1,3-benzenedimethanamine and hexamethylenediamine		
Terpineol	1 - <2	8000-41-7
copper oxide	0.5 - <1	1317-38-0
copper	0.5 - <1	7440-50-8
ethylbenzene	0.2 - <0.5	100-41-4
lead monoxide	0 - <0.1	1317-36-8

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

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

SUB codes represent substances without registered CAS Numbers.

## Section 4. First aid measures

**Description of 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	<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	: If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.
Indication of immediate n	nedical attention and special treatment needed, if necessary
Notes to physician Specific treatments	<ul> <li>In case of inhalation of decomposition products in a fire, symptoms may be delayed.</li> <li>The exposed person may need to be kept under medical surveillance for 48 hours. No specific treatment.</li> </ul>
	English (US) South America 3/16

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Section 4. First ai	id mea	asures			
Protection of first-aiders	is su mas prov	iction shall be taken involving spected that fumes are still pr k or self-contained breathing a iding aid to give mouth-to-mou bughly with water before remo	esent, the rescuer should pparatus. It may be dan th resuscitation. Wash c	l wear an app gerous to the	propriate person
Potential acute health effec	<u>ts</u>				
Eye contact	: Cau	ses serious eye damage.			
Inhalation	: Harr	nful if inhaled.			
Skin contact		be harmful in contact with skin cause an allergic skin reaction		Defatting to	the skin.
Ingestion	: Harr	nful if swallowed.			

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.
Hazardous thermal decomposition products	<ul> <li>Decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides halogenated compounds metal oxide/oxides oxides of lead</li> </ul>
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	<ul> <li>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</li> </ul>

### Section 6. Accidental release measures

Personal precautions, pr	rotective 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.

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Section 6. Accide	ental release measures		
For emergency responders	<ul> <li>If specialized clothing is required t information in Section 8 on suitab information in "For non-emergenc</li> </ul>	le and unsuitable materials	-
·	<ul> <li>Avoid dispersal of spilled material drains and sewers. Inform the rele environmental pollution (sewers, w May be harmful to the environmen</li> </ul>	evant authorities if the prod /aterways, soil or air).  Wat	uct has caused er polluting material.
Methods and materials for	containment and cleaning up		
Small spill	: Stop leak if without risk. Move cor and explosion-proof equipment. D Alternatively, or if water-insoluble, appropriate waste disposal contair contractor.	ilute with water and mop u absorb with an inert dry ma	p if water-soluble. aterial and place in an
Large spill	: Stop leak if without risk. Move cor and explosion-proof equipment. A sewers, water courses, basements effluent treatment plant or proceed combustible, absorbent material e and place in container for disposal Dispose of via a licensed waste dis material may pose the same hazar emergency contact information an	sproach release from upw s or confined areas. Wash as follows. Contain and c .g. sand, earth, vermiculite according to local regulation sposal contractor. Contam rd as the spilled product.	ind. Prevent entry into spillages into an collect spillage with non- or diatomaceous earth ons (see Section 13). inated absorbent lote: see Section 1 for

# 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, 7/2023)
	[copper fume]
	TWA 8 hours: 0.2 mg/m <sup>3</sup> . Form: Fume.
rosin	ACGIH TLV (United States, 7/2023) [resin
	<b>acids]</b> Skin sensitizer , Inhalation sensitizer.
	TWA 8 hours: 0.001 mg/m³ (as total Resin
zinc oxide	acids). Form: Inhalable fraction. ACGIH TLV (United States, 7/2023)
	TWA 8 hours: 2 mg/m <sup>3</sup> . Form: Respirable
	fraction.
	STEL 15 minutes: 10 mg/m <sup>3</sup> . Form:
	Respirable fraction.
4-methylpentan-2-one	ACGIH TLV (United States, 7/2023)
	TWA 8 hours: 20 ppm.
	STEL 15 minutes: 75 ppm.
diiron trioxide	ACGIH TLV (United States, 7/2023)
	TWA 8 hours: 5 mg/m <sup>3</sup> . Form: Respirable
	fraction.
1,2,4-trimethylbenzene	ACGIH TLV (United States, 7/2023)
	TWA 8 hours: 10 ppm.
xylene	Ministry of Labor and Employment (Brazil,
	11/2001) [Xylenes (o-, m-, p- isomers)]
	TWA 8 hours: 78 ppm.
10 hydroxycostodogonojo goid registion producto with	TWA 8 hours: 340 mg/m <sup>3</sup> .
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	ACGIH TLV (United States) TWA: 10 mg/m <sup>3</sup> . Form: Inhalable particle.
	TWA: 10 mg/m <sup>3</sup> (inhalable dust). Form:
	Respirable particle.
copper oxide	ACGIH TLV (United States, 7/2023)
	[copper fume]
	TWA 8 hours: 0.2 mg/m <sup>3</sup> . Form: Fume.
copper	ACGIH TLV (United States, 7/2023)
••	[copper dusts and mists]
	TWA 8 hours: 1 mg/m <sup>3</sup> (as Cu). Form: Dust
	and mist.
	ACGIH TLV (United States, 7/2023)
	[copper fume]
	TWA 8 hours: 0.2 mg/m <sup>3</sup> . Form: Fume.
ethylbenzene	Ministry of Labor and Employment (Brazil,
	11/2001)
	TWA 8 hours: 78 ppm.
laad manavida	TWA 8 hours: 340 mg/m <sup>3</sup> .
lead monoxide	ACGIH TLV (United States, 7/2023) [Lead
	and inorganic compounds] TWA 8 hours: 0.05 mg/m³ (as Pb).
	1 WA o hours. 0.05 mg/m <sup>2</sup> (as Pb).

Section 8. Exposu	re	e 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.
ndividual protection measur	<u>es</u>	
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	1	butyl rubber
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	:	Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

# Section 9. Physical and chemical properties

Appearance				
Physical state	1	Liquid.		
Color	1	Brownish-red.		
Odor	1	Aromatic. [Slight]		
рН	1	Not applicable.		
Melting point	1	Not available.		
Boiling point	1	>37.78°C (>100°F)		
Flash point	:	Ølosed cup: 31°C (87.8°F)		
Evaporation rate	:	Not available.		
Flammability (solid, gas)	1	Not available.		
Lower and upper explosive (flammable) limits	1	Not available.		
Vapor pressure	1	Not available.		
Vapor density	1	Not available.		
Relative density	1	1.67		
Solubility(ies)		Media Result		
		cold water Not soluble		
Partition coefficient: n- octanol/water	;	Not applicable.		
Auto-ignition temperature	1	Not available.		
Decomposition temperature	1	Not available.		
Viscosity	:	Øynamic (room temperature): Not available. Kinematic (room temperature): Not available. Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)		
Viscosity	:	> 100 s (ISO 6mm)		

# 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	-
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	-
diiron trioxide	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours
	LD50 Oral	Rat	10 g/kg	-
Solvent naphtha (petroleum), light aromatic	LD50 Dermal	Rabbit	3.48 g/kg	-
0	LD50 Oral	Rat	8400 mg/kg	-
zineb (ISO)	LD50 Oral	Rat	>2000 mg/kg	-
1,2,4-trimethylbenzene	LC50 Inhalation Vapor	Rat	18000 mg/m <sup>3</sup>	4 hours
-	LD50 Oral	Rat	5 g/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
12-hydroxyoctadecanoic acid, reaction products with	LC50 Inhalation Dusts and mists	Rat	3.56 mg/l	4 hours
1,3-benzenedimethanamine				
and hexamethylenediamine				
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
Terpineol	LD50 Oral	Rat	4300 mg/kg	-
copper oxide	LD50 Oral	Rat	>2000 mg/kg	-
copper	LC50 Inhalation Dusts and mists	Rat	>5.11 mg/l	4 hours
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	-

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

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
vlene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Terpineol	Skin - Irritant	Rabbit	-	-	-
Conclusion/Summary	·				
Skin	: There are no data avai	lable on the mi	xture itself.		
Eyes	: There are no data avai	lable on the mi	xture itself.		
Respiratory <u>Sensitization</u>	: There are no data avai	lable on the mi	xture itself.		

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Section 11. Toxico	ological	inform	ation				
Product/ingredient name	Route of exposure	Spec	Species R		Result		
Zneb (ISO) Terpineol	skin skin		ea pig ea pig		Sensitizing Sensitizing		
Conclusion/Summary Skin Respiratory <u>Autagenicity</u> Not available.		<b>SO)</b> : Weakly e no data av	•	e mixture itself			
Conclusion/Summary Carcinogenicity Not available.				e mixture itself			
Conclusion/Summary Classification	: There ar	e no data av	allable on the	e mixture itself			
Product/ingredient name	OSHA	IARC N	NTP				
4-methylpentan-2-one diiron trioxide zineb (ISO) xylene ethylbenzene	- - - -	2B - 3 - 3 - 3 - 2B -					
Carcinogen Classification IARC: 1, 2A, 2B, 3, NTP: Known to be OSHA: + Not listed/not regu	4 a human carci	nogen; Reasor	nably anticipate	ed to be a human	carcinogen		
Reproductive toxicity Not available.							
Conclusion/Summary Teratogenicity Not available.	: There ar	e no data av	ailable on the	e mixture itself			
Conclusion/Summary Specific target organ toxicit			ailable on the	e mixture itself			

Name	Category	Route of exposure	Target organs
4-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
xylene	Category 3	-	Respiratory tract irritation

English (US)

#### Specific target organ toxicity (repeated exposure)

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# Section 11. Toxicological information

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

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, upper respiratory tract, skin,

eye, lens or cornea.

#### Aspiration hazard

Name	Result
4-methylpentan-2-one	ASPIRATION HAZARD - Category 2
Solvent naphtha (petroleum), light aromatic	ASPIRATION HAZARD - Category 1
3-ethyltoluene	ASPIRATION HAZARD - Category 1
xylene	ASPIRATION HAZARD - Category 1
Terpineol	ASPIRATION HAZARD - Category 1
ethylbenzene	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure	:	Not available.
Potential acute health effects		
Eye contact	1	Causes serious eye damage.
Inhalation	1	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	4	Harmful if swallowed.
Symptoms related to the phy	sic	cal, chemical and toxicological characteristics
Eye contact	:	Adverse symptoms may include the following: pain watering redness
Inhalation	1	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 effects and also chronic effects from short and long term exposure

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Section 11. Tox	icological information		
Conclusion/Summary	: There are no data available on the dust and fumes adversely affects b central/peripheral nervous systems exposure causes adverse developr and unborn fetuses. Exposure to excess of the stated occupational e such as mucous membrane and re the kidneys, liver and central nervo headache, dizziness, fatigue, muso cases, loss of consciousness. Solv absorption through the skin. There organic solvent vapors in combinat hearing loss than expected from ex the liquid may cause irritation and r diarrhea and vomiting. This takes immediate effects and also chronic term exposure by oral, inhalation a	lood and blood forming tis and male/female reprodu- nental effects including bi- component solvent vapor exposure limit may result i spiratory system irritation us system. Symptoms ar ular weakness, drowsine vents may cause some of is some evidence that re ion with constant loud noi posure to noise alone. If eversible damage. Inges nto account, where know effects of components fro	ssues, kidneys, liver, the uctive organs. Lead rain damage in children concentrations in n adverse health effects and adverse effects on nd signs include ss and, in extreme the above effects by peated exposure to se can cause greater splashed in the eyes, tion may cause nausea, n, delayed and om short-term and long-
Short term exposure Potential immediate	: There are no data available on the	mixture itself.	
effects	There are no data available on the	universus its alf	
Potential delayed effect Long term exposure	<b>ts</b> : There are no data available on the	mixiure itseit.	
Potential immediate effects	: There are no data available on the	mixture itself.	

: There are no data available on the mixture itself.

subsequently exposed to very low levels.

: 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

: Suspected of causing cancer. Risk of cancer depends on duration and level of

Mutagenicity: No known significant effects or critical hazards.Reproductive toxicity: No known significant effects or critical hazards.

exposure.

#### Numerical measures of toxicity

Potential delayed effects

Not available.

Carcinogenicity

General

Potential chronic health effects

#### 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)
PPG SIGMA SAILADVANCE RX REDBROWN	1565.8	3135.0	N/A	60.4	3.8
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
4-methylpentan-2-one	2080	N/A	N/A	11	1.5
diiron trioxide	10000	N/A	N/A	N/A	N/A
Solvent naphtha (petroleum), light aromatic	8400	3480	N/A	N/A	N/A
zineb (ISO)	2500	N/A	N/A	N/A	N/A
		English (L	JS) South Ame	erica	12/16

Code         00444779           Product name         PPG SIGMA SAILADVANCE RX RED	Date of issue DBROWN	1	l6 December 2024	Version	3.02
Section 11. Toxicological info	rmation				
1,2,4-trimethylbenzene xylene	5000 4300	N/A 1700	N/A N/A	18 11	1.5 1.5
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	2500	2500	N/A	N/A	3.56
Terpineol	4300	N/A	N/A	N/A	N/A
copper oxide	2500	N/A	N/A	N/A	N/A
ethylbenzene	3500	17800	N/A	17.8	1.5
lead monoxide	500	N/A	N/A	11	1.5

#### Other information

: Not available.

# Section 12. Ecological information

### **Ecotoxicity**

Product/ingredient name	Result	Species	Exposure
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
4-methylpentan-2-one	Acute LC50 >179 mg/l	Fish	96 hours
diiron trioxide	Acute EC50 >100 mg/l	Daphnia	48 hours
Solvent naphtha (petroleum), light aromatic	Acute LC50 8.2 mg/l	Fish	96 hours
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	Acute EC50 >100 mg/l	Algae - Pseudokirchneriella subcapitata (microalgae)	72 hours
	Acute EC50 >100 mg/l	Daphnia - <i>Daphnia magna</i> <i>(Water flea)</i>	48 hours
	Acute LC50 >100 mg/l	Fish - Oncorhynchus mykiss (rainbow trout)	96 hours
	Chronic NOEC 100 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
	Chronic NOEC ≥50 mg/l	Daphnia - <i>Daphnia magna</i> (Water flea)	21 days
copper	Acute LC50 810 ppb	Fish	96 hours
•••	Chronic EC10 8.1 µg/l	Daphnia - <i>Daphnia magna</i> - Neonate	21 days
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
-	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-

Persistence/degradability

### Section 12. Ecological information

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Product/ingredient name	Test	Result		Dose		Inoculum
4-methylpentan-2-one 12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	OECD 301F OECD 301D Ready Biodegradability - Closed Bottle Test	83 % - Readily - 28 days 9 % - Not readily - 29 days		-		-
ethylbenzene	-	79 % - Readily - 10 days		-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	<b>Jradability</b>
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
3-ethyltoluene	3.98	-	Low
xylene	3.12	7.4 to 18.5	Low
12-hydroxyoctadecanoic	>6	-	High
acid, reaction products with			3
1,3-benzenedimethanamine			
and hexamethylenediamine			
Terpineol	2.6	-	Low
ethylbenzene	3.6	79.43	Low

#### Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

### Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and 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.

### Section 14. Transport information

	UN	Brazil (ANTT)	IMDG	ΙΑΤΑ
UN number	UN1263	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT	PAINT
Transport hazard class(es)	3	3	3	3
Packing group	III	III		III
Environmental hazards	Yes. The environmentally hazardous substance mark is not required.	Yes. The environmentally hazardous substance mark is not required.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	Not applicable.	(dicopper oxide)	Not applicable.

Additional inform	: None identified.				
Brazil	: None identified.				
Risk number	: 30				
IMDG	: The marine pollutant mark is not required when transported in sizes of $\leq$ 5 L or $\leq$ 5 kg.				
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.				
Special precauti	ons 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 bull to IMO instrume					
Section 15. Regulatory information					

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

### Section 16. Other information

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Date of previous issue	: 4/12/2024
Version	: 3.02
	EHS

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Product nam	le	PPG SIGMA SAILADVANCE RX REDBROWN			

# 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
References	: ABNT NBR 14725-4: 2014
	ANTT - National Land Transportation Agency

Indicates information that has changed from previously issued version.

**Disclaimer** 

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.