# **SAFETY DATA SHEET**



Date of issue 12 April 2024

Version 1.02

## Section 1. Product and company identification

Product name	1
Product code	:
Other means of identification	:
Product type	:

PPG SIGMA SAILADVANCE RX BROWN 000001188846

: 00444778

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 INDUSTRIES CHILE S.A. Puerto Madero 9710, Of. 23 Pudahuel - Chile Teléfono: +56 (2) 2571 0750 Fax: +56 (2) 2571 0752</li> </ul>
Email address:	: HazComLatam@ppg.com
Emergency telephone number	: +56 (2) 2777 1994 (RITA CHILE)

## 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
	AQUATIC HAZARD (LONG-TERM) - Category 1
Target organs	<ul> <li>Contains material which causes damage to the following organs: brain, central nervous system (CNS).</li> </ul>
	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.

Section 2. Hazards	identification
	Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 3.3%
	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 22%
	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 26.5%
	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 4.9%
GHS label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	<ul> <li>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.</li> </ul>
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 no eat, drink or smoke when using this product. Wash thoroughly after handling.
Response	: Collect spillage. IF exposed or concerned: Get medical advice or attention. IF INHALED: Call a POISON CENTER or doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. IF ON SKIN: Call a POISON CENTER or doctor if you feel unwell. Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
Storage	: Store in a well-ventilated place. Keep cool.
Disposal	: 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.
Classification according to NCh382:	: 3
Label according to NCh2190:	

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## Section 3. Composition/information on ingredients

#### Substance/mixture Other means of identification

**CAS number** 

: Mixture

: 00444778

#### **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
Solvent naphtha (petroleum), light aromatic	5 - <7	64742-95-6
zineb (ISO)	3 - <5	12122-67-7
1,2,4-trimethylbenzene	3 - <5	95-63-6
diiron trioxide	3 - <5	1309-37-1
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 fin	rst 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	: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
Ingestion	: If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.
Indication of immediate me	dical 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)	Chile	3/16

Product name PPG	SIGMA SAILADVANCE RX BROWN			
Section 4. Firs	aid measures			
Protection of first-aide	is suspected that fumes are sti mask or self-contained breathin providing aid to give mouth-to-r thoroughly with water before re	Il present, the rescuer sho ng apparatus. It may be d mouth resuscitation. Was	uld wear an app angerous to the	ropriate person
Potential acute health e	<u>ffects</u>			

Eye contact	: Causes serious eye damage.
Inhalation	: Harmful if inhaled.
Skin contact	: May be harmful in contact with skin. Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: Harmful if swallowed.

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	: Decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides metal oxide/oxides oxides of lead
Special protective actions for fire-fighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	<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, pre	Personal precautions, protective equipment and emergency procedures			
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.			

English (US) Chile	
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Product name PPG S	IGMA SAILADVANCE RX BROWN			
Section 6. Accid	dental release measures	5		
For emergency responde	If specialized clothing is required information in Section 8 on suital information in "For non-emergen	ble and unsuitable materia		
Environmental precautior	<ul> <li>Avoid dispersal of spilled materia drains and sewers. Inform the re environmental pollution (sewers, May be harmful to the environme</li> </ul>	levant authorities if the pro waterways, soil or air).  W	oduct has cause ater polluting ma	d aterial.
Methods and materials fo	r containment and cleaning up			
Small spill	: Stop leak if without risk. Move co and explosion-proof equipment. Alternatively, or if water-insoluble appropriate waste disposal conta contractor.	Dilute with water and mop , absorb with an inert dry ı	up if water-solu material and plac	ble. ce in an
Large spill	: Stop leak if without risk. Move co and explosion-proof equipment. sewers, water courses, basemen effluent treatment plant or procee combustible, absorbent material e and place in container for disposa Dispose of via a licensed waste d material may pose the same haza emergency contact information an	Approach release from up ts or confined areas. Was d as follows. Contain and e.g. sand, earth, vermiculi al according to local regula lisposal contractor. Conta ard as the spilled product.	wind. Prevent e sh spillages into d collect spillage te or diatomaced ations (see Section minated absorbed Note: see Section	ntry into an with non- ous earth on 13). ent
Section 7. Hand	lling and storage			
Precautions for safe handling	: Put on appropriate personal pro- history of skin sensitization pro- which this product is used. Ave Do not handle until all safety pro- get in eyes or on skin or clothin Aveid release to the onvironme	blems should not be emplo bid exposure - obtain spec ecautions have been read g. Do not breathe vapor o	oyed in any proc ial instructions b and understood or mist. Do not ir	ess in efore use. . Do not ngest.

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.

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## Section 8. Exposure controls/personal protection

#### Control parameters

**Occupational exposure limits** 

øxido de dicobre	Ministry of Health (Chile, 2/2018). [Copper fume]
	TWA: 0.18 mg/m <sup>3</sup> 8 hours. Form: Fume
Resina de pino	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
Óxido de cinc	Ministry of Health (Chile, 2/2018).
	STEL: 10 mg/m <sup>3</sup> 15 minutes. Form: Fume
	TWA: 4.4 mg/m <sup>3</sup> 8 hours. Form: Fume
4-Metilpentan-2-ona	Ministry of Health (Chile, 2/2018).
	STEL: 307 mg/m <sup>3</sup> 15 minutes.
	STEL: 75 ppm 15 minutes.
	TWA: 179 mg/m³ 8 hours.
	TWA: 44 ppm 8 hours.
Nafta disolvente (petróleo), fracción aromática ligera	Not regulated.
Zineb (ISO)	Not regulated.
1,2,4-Trimetilbenceno	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
3-ethyltoluene	Not regulated.
xileno	Ministry of Health (Chile, 2/2018). [Xylene]
	STEL: 651 mg/m <sup>3</sup> 15 minutes.
	STEL: 150 ppm 15 minutes.
	TWA: 380 mg/m³ 8 hours.
	TWA: 87 ppm 8 hours.
Ácido 12-hidroxioctadecanoico, productos de reacción con	ACGIH TLV (United States).
1,3-bencenodimetanamina y hexame-ilendiamina	TWA: 10 mg/m <sup>3</sup> Form: Inhalable particle
	TWA: 3 mg/m³, (inhalable dust) Form:
	Respirable particle
Terpineol	Not regulated.
óxido de cobre (II)	Ministry of Health (Chile, 2/2018). [Copper
	fume]
	TWA: 0.18 mg/m <sup>3</sup> 8 hours. Form: Fume
copper	Ministry of Health (Chile, 2/2018). [Copper
	dusts and mists,as Cu]
	TWA: 0.88 mg/m³, (expressed as Cu) 8
	hours. Form: Dusts and Mists
	Ministry of Health (Chile, 2/2018). [Copper
	fume]
	TWA: 0.18 mg/m <sup>3</sup> 8 hours. Form: Fume
Recommended monitoring : Reference should be made to ap	propriate monitoring standards. Reference to

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.

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Section 8. Exposition	ure controls/personal protection
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 measu	<u>ires</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	: 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 i necessary.

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### Section 9. Physical and chemical properties

Appearance				
Physical state	: Liquid.			
Color	: Brown.			
Odor	: Aromatic. [Slight]			
рН	: Not applicable.			
Melting point	: Not available.			
Boiling point	: >37.78°C (>100°F)			
		English (US)	Chile	7/16

## Section 9. Physical and chemical properties

		•	•	
Flash point	:	Closed cup: 28°C (82.4°F)		
Evaporation rate	1	Not available.		
Flammability (solid, gas)	:	Not available.		
Lower and upper explosive (flammable) limits	:	Not available.		
Vapor pressure	:	Not available.		
Vapor density	:	Not available.		
Relative density	:	1.66		
		Media	Result	
Solubility(ies)		cold water	Not soluble	
Partition coefficient: n- octanol/water	:	Not applicable.		
Auto-ignition temperature	1	Not available.		
Decomposition temperature	:	Not available.		
Viscosity	:	Kinematic (40°C (104°F)):	>21 mm²/s (>21 cSt)	
Viscosity	:	> 100 s (ISO 6mm)		

## Section 10. Stability and reactivity

Hazardous decomposition products	Depending on conditions, decomposition products may include the following m carbon oxides nitrogen oxides sulfur oxides metal oxide/oxides	naterials:	
Incompatible materials	<ul> <li>Keep away from the following materials to prevent strong exothermic reactions oxidizing agents, strong alkalis, strong acids.</li> </ul>	s:	
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 occu	ur.	
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 1.02

ode 000001188846		12 Apr	ril 2024	Version 1.02	
roduct name PPG SIGM/	A SAILADVANCE RX BROWN				
Section 11. Toxicological information					
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),		Rabbit	3.48 g/kg	-	
light aromatic			on o grug		
	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	
1,2,1 411104191801120110	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	_	
Xylene	LD50 Oral	Rat	4.3 g/kg	_	
12-hydroxyoctadecanoic	LC50 Inhalation Dusts and mists	Rat	3.56 mg/l	4 hours	
acid, reaction products with		i tat	0.00 mg/i	4 110010	
1,3-benzenedimethanamine					
and hexamethylenediamine					
and hexametrylenediamine	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 Dusts and mists	Rat	17.8 mg/l	4 hours	
euryidenzene	LD50 Dermal	Rabbit	17.8 g/kg	4 110015	
	LD50 Dernal	Rat		-	
		nal	3.5 g/kg	-	

Conclusion/Summary Irritation/Corrosion

**Observation** Product/ingredient name Exposure Result **Species Score x**ylene 24 hours 500 Skin - Moderate irritant Rabbit \_ mg Terpineol Skin - Irritant Rabbit **Conclusion/Summary** 

: There are no data available on the mixture itself.

: There are no data available on the mixture itself.

Eyes : There are no data available on the mixture itself.

: There are no data available on the mixture itself.

#### Respiratory Sensitization

Skin

Product/ingredient name	Route of exposure	Species	Result
zineb (ISO)	skin	Guinea pig	Sensitizing
Terpineol	skin	Guinea pig	Sensitizing

**Conclusion/Summary** 

English (US)	Chile	9/16

## Section 11. Toxicological information

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Skin	: zineb (ISO): Weakly positive.
Respiratory	: There are no data available on the mixture itself.
<u>Mutagenicity</u>	
Not available.	
Conclusion/Summary	: There are no data available on the mixture itself.

#### Carcinogenicity

Not available.

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

Product/ingredient name	OSHA	IARC	NTP
-methylpentan-2-one	-	2B	-
zineb (ISO)	-	3	-
diiron trioxide	-	3	-
xylene	-	3	-
carbon black	-	2B	-
ethylbenzene	-	2B	-

Carcinogen Classification code:

IARC: 1, 2A, 2B, 3, 4 NTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen OSHA: + Not listed/not regulated: -

#### Reproductive toxicity

Not available.

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

#### **Teratogenicity**

Not available.

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

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

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

Specific target organ toxicity (repeated exposure)

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## Section 11. Toxicological information

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	: Causes serious eye damage.
Inhalation	: Harmful if inhaled.
Skin contact	: May be harmful in contact with skin. Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: Harmful if swallowed.
Symptoms related to the phy	sical, chemical and toxicological characteristics
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains

#### Delayed and immediate effects and also chronic effects from short and long term exposure

Chile

# Section 11. Toxicological information

Conclusion/Summary	There are no data available on the mixture itself. Contains lead. Exposure to lead dust and fumes adversely affects blood and blood forming tissues, kidneys, liver, the central/peripheral nervous systems and male/female reproductive organs. Lead exposure causes adverse developmental effects including brain damage in children and unborn fetuses. Carbon black is utilized as a raw material in many liquid coating formulations. In this case, the carbon black particles are bound in a matrix with no meaningful potential for human exposure to unbound particles of carbon black when the product is applied with a brush or roller. Sanding the coating surface or mist from spray applications may be harmful depending on the duration and level of exposure and require the use of appropriate personal protective equipment and/ or engineering controls (see Section 8). Most carbon blacks contain trace quantities of polyaromatic hydrocarbons (PAH). PAHs are not expected to be released in biological fluids and are therefore not likely available for biological activity. Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in 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 irritation and reversible damage. Ingestion may cause and 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.
Short 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.
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
Not available.	
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	: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.
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#### Numerical measures of toxicity

Acute toxicity estimates

Code	000001188846	Date of issue	12 April 2024	Version	1.02
Product nam	PPG SIGMA SAILADV	ANCE RX BROWN			

# Section 11. Toxicological information

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
PPG SIGMA SAILADVANCE RX BROWN	1543.7	3368.0	N/A	64.4	4.0
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
Solvent naphtha (petroleum), light aromatic	8400	3480	N/A	N/A	N/A
zineb (ISO)	2500	N/A	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
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**

ng/l 0.17 mg/l 0.481 mg/l Fresh water C 0.017 mg/l Fresh water 179 mg/l 5.2 mg/l	Fish Algae Daphnia - <i>Daphnia magna</i> - Neonate Algae Fish Fish Daphnia	96 hours 72 hours 48 hours 72 hours 96 hours 96 hours 48 hours
0.17 mg/l 0.481 mg/l Fresh water C 0.017 mg/l Fresh water 179 mg/l 5.2 mg/l	Daphnia - <i>Daphnia magna</i> - Neonate Algae Fish Fish	48 hours 72 hours 96 hours 96 hours
0.481 mg/l Fresh water C 0.017 mg/l Fresh water 179 mg/l 5.2 mg/l	Daphnia - <i>Daphnia magna</i> - Neonate Algae Fish Fish	72 hours 96 hours 96 hours
179 mg/l 3.2 mg/l •100 mg/l	Fish Fish	96 hours 96 hours
179 mg/l 3.2 mg/l •100 mg/l	Fish Fish	96 hours
s.2 mg/l ⊳100 mg/l		
	Daphnia	18 hours
.100 mg/l		
•100 mg/l	Algae - Pseudokirchneriella subcapitata (microalgae)	72 hours
≥100 mg/l	Daphnia - <i>Daphnia magna</i> (Water flea)	48 hours
100 mg/l	Fish - Oncorhynchus mykiss	96 hours
C 100 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
C ≥50 mg/l	Daphnia - <i>Daphnia magna</i> (Water flea)	21 days
10 ppb	Fish	96 hours
) 8.1 µg/l	Daphnia - <i>Daphnia magna -</i> Neonate	21 days
	-100 mg/l -100 mg/l C 100 mg/l C ≥50 mg/l 10 ppb ) 8.1 μg/l	subcapitata (microalgae) 100 mg/l Daphnia - Daphnia magna (Water flea) 100 mg/l Fish - Oncorhynchus mykiss (rainbow trout) C 100 mg/l Algae - Pseudokirchneriella subcapitata C ≥50 mg/l Daphnia - Daphnia magna (Water flea) 10 ppb Fish 0 8.1 μg/l Daphnia - Daphnia magna -

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# Section 12. Ecological information

ethylbenzene	Acute EC50 1.8 mg/I Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-

### Persistence/degradability

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	9 % - Not r	ıdily - 28 days eadily - 29 days	-		-
ethylbenzene	-	79 % - Rea	idily - 10 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	gradability
✓methylpentan-2-one xylene ethylbenzene	- -		-		Readily Readily Readily	, Y

#### **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			
1,3-benzenedimethanamine			
and hexamethylenediamine			
Terpineol	2.6	-	Low
ethylbenzene	3.6	79.43	Low

### Mobility in soil

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

Other adverse effects : No known significant effects or critical hazards.

## Section 13. Disposal considerations

Disposal methods	: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and 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
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### Section 13. Disposal considerations

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	IATA
UN number	UN1263	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT	PAINT
Transport hazard class(es)	3	3	3	3
Packing group	111		III	III
Environmental hazards Marine pollutant substances	Yes. The environmentally hazardous substance mark is not required. Not applicable.	Yes. The environmentally hazardous substance mark is not required. Not applicable.	Yes. <ul> <li>(dicopper oxide)</li> </ul>	Yes. The environmentally hazardous substance mark is not required. Not applicable.

#### Additional information

UN	: None identified.
Brazil	: None identified.
Risk number	: 30
IMDG	: The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.

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

Transport in bulk according : Not applicable. to IMO instruments

## Section 15. Regulatory information

Safety, health and environmental regulations specific for the product	<ul> <li>NCh 382 - Hazardous substances - General terminology and classification. NCh 2245 - Material Safety Data Sheet for Chemicals - Contents and section order.</li> <li>D. S. 148 - Sanitary regulations on hazardous waste management.</li> <li>D. S. 298 - Transport of dangerous goods by road.</li> <li>D. S. 374 - Limit for Lead content in paints.</li> <li>D. S. 594 - Regulation on basic sanitary and environmental conditions at workplace.</li> </ul>
	D. 5. 594 - Regulation on basic sanitary and environmental conditions at workplace.

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## Section 16. Other information

<u>History</u>	
Date of previous issue	: 8/30/2023
Version	: 1.02 EHS
Key to abbreviations	<ul> <li>ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway</li> <li>ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road</li> <li>ATE = Acute Toxicity Estimate</li> <li>BCF = Bioconcentration Factor</li> <li>GHS = Globally Harmonized System of Classification and Labelling of Chemicals</li> <li>IATA = International Air Transport Association</li> <li>IMDG = International Maritime Dangerous Goods</li> <li>LogPow = logarithm of the octanol/water partition coefficient</li> <li>MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)</li> <li>RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail</li> <li>UN = United Nations</li> </ul>
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.

Chile