# **SAFETY DATA SHEET**



Date of issue 30 October 2023

Version 6

## Section 1. Product and company identification

Product name
Product code
Other means of identification
Product type

- : SIGMA SAILADVANCE RX REDBROWN
- : 00371223
- : 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 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

: 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 1B
AQUATIC HAZARD (ACUTE) - Category 1
AQUATIC HAZARD (LONG-TERM) - Category 1
: 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, ears, eye, lens or cornea.

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Code 00371223 Product name SIGMA SAIL	Date of issue         30 October 2023         Version         6           ADVANCE RX         REDBROWN				
Section 2. Hazards identification					
	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 15.3%				
	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 27%				
	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 4.5%				
GHS label elements					
Hazard pictograms					
Signal word	: Danger				
Hazard statements	<ul> <li>Fammable 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. May cause cancer. Very toxic to aquatic life with long lasting effects.</li> </ul>				
Precautionary statements	_				
Prevention	: Øbtain 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:					

## 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
Solvent naphtha (petroleum), light aromatic	7 - <10	64742-95-6
diiron trioxide	5 - <7	1309-37-1
zineb (ISO)	3 - <5	12122-67-7
1,2,4-trimethylbenzene	3 - <5	95-63-6
calcium carbonate	3 - <5	471-34-1
12-hydroxyoctadecanoic acid, reaction products with	1 - <2	220926-97-6
1,3-benzenedimethanamine and hexamethylenediamine		
ethylbenzene	1 - <2	100-41-4
copper oxide	0.5 - <1	1317-38-0
copper	0.2 - <0.5	7440-50-8
p-mentha-1,4(8)-diene	0.1 - <0.2	586-62-9
cumene	0.1 - <0.2	98-82-8

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	: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
Inhalation	<ul> <li>Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.</li> </ul>
Skin contact	<ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.</li> </ul>
Ingestion	: 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 r	medical 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>

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Section 4. First ai	d meas	ures			
Protection of first-aiders	is susp mask o providir	on shall be taken involving ected that fumes are still p r self-contained breathing ng aid to give mouth-to-mo hly with water before remo	resent, the rescuer shoul apparatus. It may be dar uth resuscitation. Wash	d wear an app ngerous to the	propriate person
Potential acute health effect	<u>ts</u>				
Eye contact	: Causes	serious eye damage.			
Inhalation	: Harmfu	l if inhaled.			
Skin contact		harmful in contact with sk use an allergic skin reactic		Defatting to t	the skin.
Ingestion		l 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
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, protect	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".

English (US)	Chile	4/16
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### Section 6. Accidental release measures

Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
Methods and materials for c	on	tainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non- combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

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# Section 7. Handling and storage

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

## Section 8. Exposure controls/personal protection

Control parameters

**Occupational exposure limits** 

øxido de dicobre	Ministry of Health (Chile, 2/2018). [Copper fume]
Resina de pino	TWA: 0.18 mg/m <sup>3</sup> 8 hours. Form: Fume ACGIH TLV (United States, 1/2022). [resin acids as total Resin acids] Skin sensitizer. Inhalation sensitizer. TWA: 0.001 mg/m <sup>3</sup> , (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/m <sup>3</sup> 8 hours. TWA: 44 ppm 8 hours.
Nafta disolvente (petróleo), fracción aromática ligera diiron trioxide	Not regulated. <b>ACGIH TLV (United States, 1/2022).</b> TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction
Zineb (ISO)	Not regulated.
1,2,4-Trimetilbenceno	ACGIH TLV (United States, 1/2022).
calcium carbonate	TWA: 10 ppm 8 hours. <b>Ministry of Health (Chile, 2/2018).</b> TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction
	TWA: 7 mg/m <sup>3</sup> 8 hours. Form: Total dust containing no asbestos and less than 1% free silica
Ácido 12-hidroxioctadecanoico, productos de reacción con 1,3-bencenodimetanamina y hexame-ilendiamina	ACGIH TLV (United States). TWA: 10 mg/m <sup>3</sup> Form: Inhalable particle TWA: 3 mg/m <sup>3</sup> , (inhalable dust) Form: Respirable particle
Etilbenceno	Ministry of Health (Chile, 2/2018). STEL: 543 mg/m <sup>3</sup> 15 minutes. STEL: 125 ppm 15 minutes. TWA: 380 mg/m <sup>3</sup> 8 hours.
óxido de cobre (II)	TWA: 87 ppm 8 hours. Ministry of Health (Chile, 2/2018). [Copper fume]
copper	TWA: 0.18 mg/m <sup>3</sup> 8 hours. Form: Fume <b>Ministry of Health (Chile, 2/2018). [Copper dusts and mists,as Cu]</b> TWA: 0.88 mg/m <sup>3</sup> , (expressed as Cu) 8
	hours. Form: Dusts and Mists Ministry of Health (Chile, 2/2018). [Copper fume]
p-mentha-1,4(8)-diene	TWA: 0.18 mg/m <sup>3</sup> 8 hours. Form: Fume Not regulated.
	English (US) Chile 6/16

Section 8. Exposu	re	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	<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

<u>Appearance</u>		
Physical state	1	Liquid.
Color	4	Brownish-red.
Odor	1	Characteristic.
рН	1	Not applicable.
Melting point	:	Not available.
Boiling point	:	>37.78°C (>100°F)
Flash point	:	Closed cup: 34°C (93.2°F)
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	Not available.
Lower and upper explosive (flammable) limits	1	Not available.
Vapor pressure	:	Not available.
Vapor density	:	Not available.
Relative density	:	1.68
Solubility/icc)		Media Result
Solubility(ies)	ľ	old water Not soluble
Partition coefficient: n- octanol/water	:	Not applicable.
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
Viscosity	:	Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)

# Section 10. Stability and reactivity

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

English (U	IS)	Chile
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## Section 11. Toxicological information

### Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
dicopper oxide	LC50 Inhalation Dusts and mists	Rat	3.34 mg/l	4 hours
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	500 mg/kg	-
rosin	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	7600 mg/kg	-
zinc oxide	LC50 Inhalation Dusts and mists	Rat	>5700 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
4-methylpentan-2-one	LC50 Inhalation Vapor	Rat	11 mg/l	4 hours
, . , .	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	2.08 g/kg	-
Solvent naphtha (petroleum), light aromatic	LD50 Dermal	Rabbit	3.48 g/kg	-
-	LD50 Oral	Rat	8400 mg/kg	-
diiron trioxide	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours
	LD50 Oral	Rat	10 g/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	-
calcium carbonate	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	6450 mg/kg	-
12-hydroxyoctadecanoic	LC50 Inhalation Dusts and mists	Rat	3.56 mg/l	4 hours
acid, reaction products with			-	
1,3-benzenedimethanamine				
and hexamethylenediamine				
-	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
-	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
copper oxide	LD50 Oral	Rat	>2000 mg/kg	-
copper	LC50 Inhalation Dusts and mists	Rat	>5.11 mg/l	4 hours
p-mentha-1,4(8)-diene	LD50 Oral	Rat	4390 mg/kg	-
cumene	LC50 Inhalation Vapor	Rat	39000 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	12.3 g/kg	-
	LD50 Oral	Rat	2260 mg/kg	-

Not available.

Conclusion/Summary
Skin
Eyes
Respiratory
Soneitization

- : There are no data available on the mixture itself.
  - : There are no data available on the mixture itself.
  - : There are no data available on the mixture itself.
- Sensitization

Code 00371223 Product name SIGMA SAI	LADVANCE R)		Date of issue OWN	30 Octo	ber 2023	Version	6
Section 11. Toxico	ologica	l info	rmation				
Product/ingredient name	Route of exposure	5	Species		Result		
zineb (ISO)	skin	C	Guinea pig		Sensitizing		
Conclusion/Summary	1						
Skin		-	akly positive.				
Respiratory	: There a	re no dat	a available on the	mixture itsel	f.		
<u>Mutagenicity</u>							
Not available.							
Conclusion/Summary	: There a	re no dat	a available on the	mixture itsel	f.		
<u>Carcinogenicity</u>							
Not available.							
Conclusion/Summary	: There a	re no dat	a available on the	mixture itsel	f.		
Classification							
Product/ingredient name	OSHA	IARC	NTP				
-methylpentan-2-one	-	2B	-				
diiron trioxide	-	3	-				
zineb (ISO)	-	3	-				
ethylbenzene	-	2B	-				
cumene	-	2B	Reasonably a	nticipated to	be a human	carcinogen.	
Carcinogen Classification	code:						
IARC: 1, 2A, 2B, 3, 4		in e ren . De		d to be a human			
OSHA: +	a numan carc	inogen, Re	easonably anticipated	u to be a numai	rcarcinogen		
Not listed/not regu	lated: -						
Reproductive toxicity							
Not available.							
Conclusion/Summary	: There a	re no dat	a available on the	mixture itsel	f.		
<u>Feratogenicity</u>							
Not available.							
					_		
Conclusion/Summary	There a	re no dat	a available on the	mixture itsel	f.		

### Specific target organ toxicity (single exposure)

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

### Specific target organ toxicity (repeated exposure)

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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 cumene	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,

ears, 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
ethylbenzene	ASPIRATION HAZARD - Category 1
p-mentha-1,4(8)-diene	ASPIRATION HAZARD - Category 1
cumene	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

Inhalation	redness : <b>⋈</b> o 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

English (US)

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Product name SIGMA SA	NILADVANCE RX REDBROWN		
Section 11. Toxic	ological information		
Conclusion/Summary	: There are no data available on the vapor concentrations in excess of in adverse health effects such as irritation and adverse effects on th Symptoms and signs include head drowsiness and, in extreme cases some of the above effects by abso that repeated exposure to organic noise can cause greater hearing lo If splashed in the eyes, the liquid r Ingestion may cause nausea, diar known, delayed and immediate ef short-term and long-term exposure exposure and eye contact.	the stated occupational ex mucous membrane and re le kidneys, liver and centra dache, dizziness, fatigue, r s, loss of consciousness. S orption through the skin. T solvent vapors in combina oss than expected from ex may cause irritation and re rhea and vomiting. This ta fects and also chronic effe	xposure limit may result espiratory system al nervous system muscular weakness, Solvents may cause There is some evidence ation with constant loud xposure to noise alone. eversible damage. akes into account, where ects of components from
<u>Short term exposure</u>			
Potential immediate effects	: There are no data available on the	e mixture itself.	
Potential delayed effects	: There are no data available on the	e mixture itself.	
<u>Long term exposure</u>			
Potential immediate effects	: There are no data available on the	e mixture itself.	
Potential delayed effects	: There are no data available on the	e mixture itself.	
Potential chronic health eff	fects		
Not available.			
General	<ul> <li>Prolonged or repeated contact can or dermatitis. Once sensitized, a subsequently exposed to very low</li> </ul>	severe allergic reaction ma	
Carcinogenicity	: May cause cancer. Risk of cance	r depends on duration and	l level of exposure.
Mutagenicity	: No known significant effects or cri	tical hazards.	
Reproductive toxicity	: No known significant effects or cri	tical 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/l)
SIGMA SAILADVANCE RX REDBROWN	1545.5	3473.0	N/A	67.1	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
diiron trioxide	10000	N/A	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
calcium carbonate	6450	2500	N/A	N/A	N/A
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and	2500	2500	N/A	N/A	3.56
		English (l	JS) Chile		12/16

Code 00371223 Product name	SIGMA SAILADVANCE RX R	Date of issue EDBROWN	30 Oc	tober 2023	Version	6
Section 11. Toxicological information						
hexamethylenedia ethylbenzene copper oxide p-mentha-1,4(8)-d cumene		3500 2500 4390 2260	17800 N/A N/A 12300	N/A N/A N/A N/A	17.8 N/A N/A 39	1.5 N/A N/A N/A

#### 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
Solvent naphtha (petroleum), light aromatic	Acute LC50 8.2 mg/l	Fish	96 hours
diiron trioxide	Acute EC50 >100 mg/l	Daphnia	48 hours
calcium carbonate	Acute EC10 >14 mg/l	Algae	72 hours
12-hydroxyoctadecanoic	Acute EC50 >100 mg/l	Algae - Pseudokirchneriella	72 hours
acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine		subcapitata (microalgae)	
, ,	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
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
-	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
copper	Acute LC50 810 ppb	Fish	96 hours

### Persistence/degradability

Product/ingredient name	Test	Result	Dose	Inoculum
✓-methylpentan-2-one 12-hydroxyoctadecanoic	OECD 301F OECD 301D	83 % - Readily - 28 days 9 % - Not readily - 29 days	-	-
acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	Ready Biodegradability - Closed Bottle			
ethylbenzene	Test -	79 % - Readily - 10 days	-	-

English (US)	Chile	13/16

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## Section 12. Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
-methylpentan-2-one	-	-	Readily
ethylbenzene	-	-	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
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	>6	-	High
ethylbenzene	3.6	79.43	Low
p-mentha-1,4(8)-diene	4.47	-	High
cumene	3.55	35.48	Low

#### Mobility in soil

Soil/water partition 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

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## Section 14. Transport information

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

### Section 16. Other information

#### **History**

Date of previous issue	:	7/8/2021
Version	:	6
		EHS

English (US)

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# 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.