# **SAFETY DATA SHEET**



Date of issue 30 October 2023

Version 9

### Section 1. Product and company identification

Product name
Product code
Other means of identification
Product type

: SIGMA SAILADVANCE RX BROWN

- : 00371224
- : 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	: PPG INDUSTRIES ARGENTINA S.R.L. Calle 9 y Del gasoducto N° 3810 Parque Industrial Pilar -(CP 1629) Pilar Provincia de Buenos Aires - Argentina Teléfono : 54-0230 4529700 Fax : 54-0230 4529706
Email address:	: HazComLatam@ppg.com
Emergency telephone number	: Centro de intoxicaciones 0800-333-0160 /CIQUIME 0800-222-2933

### Section 2. Hazards identification

Classification of the	: FLAMMABLE LIQUIDS - Category 3
substance or mixture	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
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, ears, eye, lens or cornea.

Code         00371224           Product name         SIGMA SAIL		Date of issue VANCE RX BROWN	30 October 2023	Version	9
Section 2. Hazards	s i	dentification			
		Percentage of the mixture consisti toxicity: 13.2% Percentage of the mixture consisti toxicity: 27.5%	ng of ingredient(s) of unl	known acute ir	nhalation
		Percentage of the mixture consisti aquatic environment: 4.6%		KIIOWII Hazarus	
GHS label elements					
Hazard pictograms	:				
Signal word	:	Danger			
Hazard statements	:	<ul> <li>Ammable liquid and vapor.</li> <li>Harmful if swallowed or if inhaled.</li> <li>May be harmful in contact with skin Causes skin irritation.</li> <li>May cause an allergic skin reaction Causes serious eye damage.</li> <li>May cause cancer.</li> <li>Very toxic to aquatic life with long I</li> </ul>	٦.		
Precautionary statements					
Prevention	:	Øbtain special instructions before and eye or face protection. Keep a flames and other ignition sources. ventilating or lighting equipment. U static discharges. Avoid release to eat, drink or smoke when using thi	away from heat, hot surfa No smoking. Use explo Jse non-sparking tools. the environment. Avoid	aces, sparks, o sion-proof elec Take action to d breathing va	open ctrical, prevent por. Do no
Response	:	Collect spillage. IF exposed or con INHALED: Call a POISON CENTE contaminated clothing and wash it CENTER or doctor if you feel unwer rash occurs: Get medical advice of water for several minutes. Remove Continue rinsing. Immediately call	R or doctor if you feel un before reuse. IF ON Sk ell. Wash with plenty of r attention. IF IN EYES: e contact lenses, if prese	nwell. Take of KIN: Call a POI water. If skin i Rinse cautiou ent and easy to	f SON irritation or sly with
Storage	:	Store in a well-ventilated place. Ke	ep cool.		
Disposal	:	Dispose of contents and container and international regulations.	in accordance with all lo	ocal, regional, i	national
Other hazards which do not result in classification	:	Prolonged or repeated contact ma	y dry skin and cause irrit	ation.	

#### result in classification

# Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of identification	: Not available.

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

**CAS** number

: Not applicable.

### Section 3. Composition/information on ingredients

Ingredient name	%	CAS number
øícopper 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
zineb (ISO)	3 - <5	12122-67-7
1,2,4-trimethylbenzene	3 - <5	95-63-6
diiron trioxide	3 - <5	1309-37-1
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

becomption of neocoodily me		
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	:	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 medi	ica	I attention and special treatment needed, if necessary
Notes to physician Specific treatments		In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. No specific treatment.
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
Potential acute health effects	2	
Eye contact	1	Causes serious eye damage.
Inhalation	:	Harmful if inhaled.

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### Section 4. First aid measures

**Skin contact** 

Ingestion

 May be harmful in contact with skin. Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
 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
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	cti	ve equipment and emergency procedures
For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

#### Methods and materials for containment and cleaning up

Code 00371224 Product name	SIGMA SAILADVANCE	Date of issue RX BROWN	30 October 2023	Version	9
Section 6. A	ccidental re	elease measures			
Small spill	and ex Alterna approp	ak if without risk. Move cont plosion-proof equipment. Di tively, or if water-insoluble, a riate waste disposal containe ctor.	lute with water and mop ubsorb with an inert dry m	up if water-solu aterial and pla	ıble. ce in an
<ul> <li>Large spill</li> <li>Stop leak if without risk. Move containers from spill area. and explosion-proof equipment. Approach release from up sewers, water courses, basements or confined areas. Wa effluent treatment plant or proceed as follows. Contain and combustible, absorbent material e.g. sand, earth, vermicul and place in container for disposal according to local regul. Dispose of via a licensed waste disposal contractor. Contain material may pose the same hazard as the spilled product. emergency contact information and Section 13 for waste disposal</li> </ul>				vind. Prevent e h spillages into collect spillage e or diatomace ions (see Sect ninated absorb Note: see Sect	entry into an with non- ous earth ion 13). ent

# 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

<u>Control parameters</u> <u>Occupational exposure limits</u>

# Section 8. Exposure controls/personal protection

Ingredient name	Exposure limits
dícopper oxide	ACGIH TLV (United States, 1/2022).
	[Copper Fume]
	TWA: 0.2 mg/m <sup>3</sup> 8 hours. Form: Fume
rosin	Ministry of Labor, Employment and
	Social Security. Argentina (Resolution
	295,11/2003) (Argentina, 11/2003). Skin sensitizer.
zinc oxide	Ministry of Labor, Employment and
	Social Security. Argentina (Resolution
	295,11/2003) (Argentina, 11/2003).
	TWA: 10 mg/m <sup>3</sup> 8 hours. Form: dust
	TWA: 5 mg/m <sup>3</sup> 8 hours. Form: fume
	STEL: 10 mg/m <sup>3</sup> 15 minutes. Form: fume
4-methylpentan-2-one	Ministry of Labor, Employment and
······································	Social Security. Argentina (Resolution
	295,11/2003) (Argentina, 11/2003).
	TWA: 50 ppm 8 hours.
	STEL: 75 ppm 15 minutes.
1,2,4-trimethylbenzene	Ministry of Labor, Employment and
	Social Security. Argentina (Resolution
	295,11/2003) (Argentina, 11/2003).
	[Trimethylbenzene (mixed isomers)]
	TWA: 25 ppm 8 hours.
diiron trioxide	Ministry of Labor, Employment and
	Social Security. Argentina (Resolution
	295,11/2003) (Argentina, 11/2003).
	TWA: 5 mg/m <sup>3</sup> , (as Fe) 8 hours. Form: dust
	and fume
calcium carbonate	ACGIH TLV (United States).
	TWA: 3 mg/m <sup>3</sup> Form: Respirable TWA: 10 mg/m <sup>3</sup> Form: Total dust
12-hydroxyoctadecanoic acid, reaction products with	ACGIH TLV (United States).
1,3-benzenedimethanamine and hexamethylenediamine	TWA: 10 mg/m <sup>3</sup> Form: Inhalable particle
	TWA: 3 mg/m <sup>3</sup> , (inhalable dust) Form:
	Respirable particle
ethylbenzene	Ministry of Labor, Employment and
	Social Security. Argentina (Resolution
	295,11/2003) (Årgentina, 11/2003).
	TWA: 100 ppm 8 hours.
	STEL: 125 ppm 15 minutes.
Recommended monitoring : Reference should be made to a	appropriate monitoring standards. Reference to
	or methods for the determination of hazardous
substances will also be require	
	ion. Use process enclosures, local exhaust
	controls to keep worker exposure to airborne
	mended or statutory limits. The engineering controls
also need to keep gas, vapor o	r dust concentrations below any lower explosive

limits. Use explosion-proof ventilation equipment.

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Section 8. Exposu	are controls/personal protection
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 measu	res
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	Observiced as sistent increasions along a semanting with an engroup distance about a
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Gloves	: butyl rubber
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

### Section 9. Physical and chemical properties

Appearance	
Physical state	: Liquid.
Color	: Brown.
Odor	: Characteristic.
рН	: 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.

# Section 9. Physical and chemical properties

-			•
Lower and upper explosive (flammable) limits	:	Not available.	
Vapor pressure	:	Not available.	
Vapor density	:	Not available.	
Relative density	:	1.69	
Solubility(ies)		Media	Result
Solubility(les)	1	cold 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 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 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
51	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	2.08 g/kg	-
Solvent naphtha (petroleum)	LD50 Dermal	Rabbit	3.48 g/kg	-
,			0 0	
Solvent naphtha (petroleum) light aromatic	LD50 Dermal	Rabbit	3.48 g/kg	
		English (US	6) Argentina	

roduct name SIGMA SA	LADVANCE RX BROW	Date of issue N		ctober 2023	Version	
Section 11. Toxic	ological info	rmation				
	LD50 Oral		Rat	8400 mg/kg	-	
zineb (ISO)	LD50 Oral		Rat	>2000 mg/kg	-	
1,2,4-trimethylbenzene	LC50 Inhalation Va	apor	Rat	18000 mg/m <sup>3</sup>	4 hours	
•	LD50 Oral		Rat	5 g/kg	-	
diiron trioxide	LC50 Inhalation Du	usts and mists	Rat	>5 mg/l	4 hours	
	LD50 Oral		Rat	10 g/kg	-	
calcium carbonate	LD50 Dermal		Rat	>2000 mg/kg	-	
	LD50 Oral		Rat	6450 mg/kg	-	
12-hydroxyoctadecanoic	LC50 Inhalation Du	usts 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 Va	apor	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 Du	usts and mists	Rat	>5.11 mg/l	4 hours	
p-mentha-1,4(8)-diene	LD50 Oral		Rat	4390 mg/kg	-	
cumene	LC50 Inhalation Va	apor	Rat	39000 mg/m <sup>3</sup>	4 hours	
	IDEO Dermal	•	Rabbit	12.3 g/kg	-	
	LD50 Dermal		Rappil	12.0 g/kg		
	LD50 Dermai LD50 Oral : There are no da	ta available on	Rat	2260 mg/kg	-	
rritation/Corrosion Not available. <u>Conclusion/Summary</u> Skin Eyes	LD50 Oral : There are no da : There are no da : There are no da	ta available on ta available on	Rat the mixture its the mixture its the mixture its	2260 mg/kg self. self. self.	-	
rritation/Corrosion Not available. Conclusion/Summary Skin	LD50 Oral : There are no da : There are no da	ta available on ta available on	Rat the mixture its the mixture its the mixture its	2260 mg/kg self. self. self.	-	
rritation/Corrosion Not available. <u>Conclusion/Summary</u> Skin Eyes Respiratory	LD50 Oral : There are no da : There are no da : There are no da : There are no da	ta available on ta available on	Rat the mixture its the mixture its the mixture its	2260 mg/kg self. self. self.	-	
rritation/Corrosion Not available. <u>Conclusion/Summary</u> Skin Eyes Respiratory Sensitization	LD50 Oral : There are no da : There are no da : There are no da : There are no da : There are no da Route of exposure	ta available on ta available on ta available on	Rat the mixture its the mixture its the mixture its	2260 mg/kg self. self. self. self.	-	
rritation/Corrosion Not available. <u>Conclusion/Summary</u> Skin Eyes Respiratory <u>Sensitization</u> Product/ingredient name	LD50 Oral : There are no da : There are no da : There are no da : There are no da : There are no da Route of exposure	ta available on ta available on ta available on <b>Species</b> Guinea pig eakly positive.	Rat the mixture its the mixture its the mixture its the mixture its	2260 mg/kg self. self. self. self. <b>Result</b> Sensitizing	-	
rritation/Corrosion Not available. Conclusion/Summary Skin Eyes Respiratory Sensitization Product/ingredient name zineb (ISO) Conclusion/Summary Skin Respiratory Mutagenicity	LD50 Oral : There are no da : There are no da : There are no da : There are no da : There are no da Route of exposure skin : zineb (ISO): We	ta available on ta available on ta available on <b>Species</b> Guinea pig eakly positive. ta available on	Rat the mixture its the mixture its the mixture its the mixture its	2260 mg/kg self. self. self. self. Sensitizing	-	

### Section 11. Toxicological information

	-		
Product/ingredient name	OSHA	IARC	NTP
-methylpentan-2-one	-	2B	-
zineb (ISO)	-	3	-
diiron trioxide	-	3	-
ethylbenzene	-	2B	-
carbon black	-	2B	-
cumene	-	2B	Reasonably anticipated to be a human carcinogen.

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
	Category 3	-	Narcotic effects
Solvent naphtha (petroleum), light aromatic	Category 3	-	Narcotic effects
zineb (ISO)	Category 3	-	Respiratory tract irritation
1,2,4-trimethylbenzene	Category 3	-	Respiratory tract irritation
cumene	Category 3	-	Respiratory tract irritation

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

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

Target organs

: Contains material which causes damage to the following organs: brain, central nervous system (CNS).

Contains material which may cause damage to the following organs: blood, kidneys, lungs, the nervous system, liver, gastrointestinal tract, upper respiratory tract, skin, ears, eye, lens or cornea.

#### Aspiration hazard

# Section 11. Toxicological information

Result
ASPIRATION HAZARD - Category 2
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	:	Farmful if swallowed.

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

Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: No specific data.
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

Conclusion/Summary	: There are no data available on the mixture itself. 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 health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than
	vapors in compination with constant loud holse can cause greater heating loss than

# Section 11. Toxicological information

expected from exposure to noise alone. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.
: 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.
: There are no data available on the mixture itself.
fects
<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>
: $\mathbf{M}$ ay cause cancer. Risk of cancer depends on duration and level of exposure.

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

#### **Numerical measures of toxicity**

#### 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)
GMA SAILADVANCE RX BROWN	1522.1	3502.1	N/A	66.2	3.9
dicopper oxide	500	2500	N/A	N/A	3.34
rosin	7600	2500	N/A	N/A	N/A
zinc oxide	N/A	2500	N/A	N/A	N/A
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
calcium carbonate	6450	2500	N/A	N/A	N/A
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	2500	2500	N/A	N/A	3.56
ethylbenzene	3500	17800	N/A	17.8	1.5
copper oxide	2500	N/A	N/A	N/A	N/A
p-mentha-1,4(8)-diene	4390	N/A	N/A	N/A	N/A
cumene	2260	12300	N/A	39	N/A

#### **Other information**

: Not available.

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# 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
<ul> <li>methylpentan-2-one</li> <li>12-hydroxyoctadecanoic</li> <li>acid, reaction products with</li> <li>1,3-benzenedimethanamine</li> <li>and hexamethylenediamine</li> <li>ethylbenzene</li> </ul>	OECD 301F OECD 301D Ready Biodegradability - Closed Bottle Test -	83 % - Readily - 28 days 9 % - Not readily - 29 days 79 % - Readily - 10 days		-		-
Product/ingredient name			Photolysis		Biodeg	radability
methylpentan-2-one ethylbenzene	-				Readily Readily	

**Bioaccumulative potential** 

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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	: 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 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			
			English (US) Argentina	14/10

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Product nam	ne	SIGMA SAILADVANCE RX	BROWN				

# Section 14. Transport information

-				
Environmental	Yes. The	Yes. The	Yes.	Yes. The
hazards	environmentally	environmentally		environmentally
	hazardous substance mark is not required.	hazardous substance mark is not required.		hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	Not applicable.	(dicopper oxide, zinc oxide)	Not applicable.

#### **Additional information**

Cention 45	Degulatory information
Transport in bull to IMO instrume	•
Special precaution	<b>ons for user : Transport within user's premises:</b> 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.
IATA	<ul> <li>The marine politican mark is not required when transported in sizes of 35 L of 35 kg.</li> <li>The environmentally hazardous substance mark may appear if required by other transportation regulations.</li> </ul>
UN Brazil Risk number IMDG	<ul> <li>None identified.</li> <li>None identified.</li> <li>30</li> <li>The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.</li> </ul>

## 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

<u>History</u>	
Date of previous issue	: 5/22/2021
Version	: 9
	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> </ul>
	UN = United Nations

### Section 16. Other information

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.