SAFETY DATA SHEET



Date of issue 16 December 2024

Version 1.06

Section 1. Product and company identification

Product name	: SIGMA SAILADVANCE RX REDBROWN
Product code	: 000001188845
Other means of identification	: 00444779
Product type	: 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 Industrial do Brasil – Tintas e Vernizes Ltda Via Anhanguera KM 106, Bairro Sao Judas Tadeu Sumare / SP, Brasil Teléfono: 55 19 2103-6000 (Recepción)
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 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	
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Code 00000 Product name	1188845 SIGMA SAI	Date of issue LADVANCE RX REDBROWN	16 December 2024	Version	1.06		
Section 2.	Hazard	s identification					
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, kidr lungs, the nervous system, liver, gastrointestinal tract, upper respiratory tract, sl eye, lens or cornea.					
		Percentage of the mixture consist 7.9% Percentage of the mixture consist toxicity: 27.9% Percentage of the mixture consist toxicity: 31.1%	ing of ingredient(s) of unk	nown acute d	lermal		
		Fercentage of the mixture consist aquatic environment: 9.5%	ing of ingredient(s) of unk	nown hazard	s to the		
GHS label eleme Hazard pictogr				3			

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

Date of issue SIGMA SAILADVANCE RX REDBROWN

Section 3. Composition/information on ingredients

Substance/mixture Other means of identification

CAS number

: Mixture

: 00444779

CAS number/other identifiers

: Not applicable.

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

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

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

SUB codes represent substances without registered CAS Numbers.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	 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 r	nedical 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.
	English (US) Argentina 3/16

Section 4. First aid measures

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		
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	:	Harmful if swallowed.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , 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 halogenated compounds 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	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, p	rotective equipment and emergency procedures
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

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Section 6. Accide	ental release measu	'es		
For emergency responders	 If specialized clothing is requi information in Section 8 on su information in "For non-emerged 	uitable and unsuitable materials		
Environmental precautions	environmental pollution (sewe	erial and runoff and contact with relevant authorities if the prod rs, waterways, soil or air). Wat ment if released in large quanti	uct has caused er polluting material.	
Methods and materials for	containment and cleaning up			
Small spill	Alternatively, or if water-insolu	e containers from spill area. Us nt. Dilute with water and mop u ble, absorb with an inert dry ma ntainer. Dispose of via a licens	p if water-soluble. aterial and place in an	
Large spill	and explosion-proof equipmer sewers, water courses, basen effluent treatment plant or pro combustible, absorbent mater and place in container for disp Dispose of via a licensed was material may pose the same h	e containers from spill area. Us nt. Approach release from upwi nents or confined areas. Wash ceed as follows. Contain and c ial e.g. sand, earth, vermiculite losal according to local regulation te disposal contractor. Contaminazard as the spilled product. Non and Section 13 for waste disp	ind. Prevent entry into spillages into an collect spillage with nor or diatomaceous earth ons (see Section 13). inated absorbent lote: see Section 1 for	n- th
Section 7. Handling and storage				

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

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
dícopper oxide	ACGIH TLV (United States, 7/2023) [copper fume]
rosin	TWA 8 hours: 0.2 mg/m ³ . Form: Fume. Ministry of Labor, Employment and Social Security. Argentina (Resolution 295,11/2003) (Argentina, 11/2003)
zinc oxide	Sensitizer. Ministry of Labor, Employment and Social Security. Argentina (Resolution 295,11/2003) (Argentina, 11/2003) TWA 8 hours: 10 mg/m ³ . Form: dust.
4-methylpentan-2-one	TWA 8 hours: 5 mg/m ³ . Form: fume. STEL 15 minutes: 10 mg/m ³ . Form: fume. Ministry of Labor, Employment and
4-methypentan-z-one	Social Security. Argentina (Resolution 295,11/2003) (Argentina, 11/2003)
diiron trioxide	TWA 8 hours: 50 ppm. STEL 15 minutes: 75 ppm. Ministry of Labor, Employment and
	Social Security. Argentina (Resolution 295,11/2003) (Argentina, 11/2003)
1,2,4-trimethylbenzene	TWA 8 hours: 5 mg/m ³ (as Fe). Form: dust and fume. Ministry of Labor, Employment and
	Social Security. Argentina (Resolution 295,11/2003) (Argentina, 11/2003) [Trimetilbenceno]
Limestone	TWA 8 hours: 25 ppm. Ministry of Labor, Employment and Social Security. Argentina (Resolution 295,11/2003) (Argentina, 11/2003) TWA 8 hours: 10 mg/m ³ . Form: respirable
	fibers: length> 5 .mu.m; length / diameter ratio (aspect) ³ 3: 1, determined by the membrane filter method at 400 - 450 x magnification (4mm objective) using illumination of phase contrast
xylene	Ministry of Labor, Employment and Social Security. Argentina (Resolution 295,11/2003) (Argentina, 11/2003) [Xileno] TWA 8 hours: 100 ppm.
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	STEL 15 minutes: 150 ppm. ACGIH TLV (United States) TWA: 10 mg/m ³ . Form: Inhalable particle. TWA: 3 mg/m ³ (inhalable dust). Form:
copper oxide	Respirable particle. ACGIH TLV (United States, 7/2023) [copper fume]

Section 8. Exposure controls/personal protection

		controls, percontar pro	
copper lead monoxide			TWA 8 hours: 0.2 mg/m ³ . Form: Fume. Ministry of Labor, Employment and Social Security. Argentina (Resolution 295,11/2003) (Argentina, 11/2003) TWA 8 hours: 1 mg/m ³ (as Cu). Form: dust and mist. TWA 8 hours: 0.2 mg/m ³ (as Cu). Form: fume. Ministry of Labor, Employment and Social Security. Argentina (Resolution 295,11/2003) (Argentina, 11/2003) [Plomo y compuestos inorgánicos] TWA 8 hours: 0.05 mg/m ³ (as Pb).
Recommended monitoring procedures	:		riate monitoring standards. Reference to nods for the determination of hazardous
Appropriate engineering controls	:	contaminants below any recommende	Is to keep worker exposure to airborne d or statutory limits. The engineering controls concentrations below any lower explosive
Environmental exposure controls	:	Emissions from ventilation or work pro	ocess equipment should be checked to ensure environmental protection legislation. In some neering modifications to the process
ndividual protection measur	<u>'es</u>		
Hygiene measures	:	before eating, smoking and using the Appropriate techniques should be use Contaminated work clothing should no	bughly after handling chemical products, lavatory and at the end of the working period. d to remove potentially contaminated clothing. of be allowed out of the workplace. Wash Ensure that eyewash stations and safety ocation.
Eye protection	1	Chemical splash goggles and face shi	ield.
Skin protection		.	
Hand protection		be worn at all times when handling ch this is necessary. Considering the par check during use that the gloves are s should be noted that the time to break different for different glove manufactur several substances, the protection time estimated.	complying with an approved standard should emical products if a risk assessment indicates rameters specified by the glove manufacturer, still retaining their protective properties. It through for any glove material may be rers. In the case of mixtures, consisting of e of the gloves cannot be accurately
Gloves	1	butyl rubber	
Body protection		being performed and the risks involve	

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Section 8. Ex	posure	controls/personal p	rotection		
Other skin protecti	on :	Appropriate footwear and any add selected based on the task being approved by a specialist before ha	performed and the risks ir		
Respiratory protecti	on :	Respirator selection must be base hazards of the product and the sat workers are exposed to concentra appropriate, certified respirators. respirator complying with an appro- necessary.	fe working limits of the se tions above the exposure Use a properly fitted, air-p	lected respira limit, they mu purifying or air	tor. If ust use -fed

Section 9. Physical and chemical properties

<u>Appearance</u>			
Physical state	:	Liquid.	
Color	1	Brownish-red.	
Odor	1	Aromatic. [Slight]	
рН	1	Not applicable.	
Melting point	:	Not available.	
Boiling point	:	>37.78°C (>100°F)	
Flash point	:	⊘ losed cup: 31°C (87.8°F)	
Evaporation rate	:	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	:	1.67	
Colubility/ico)		Media Re	sult
Solubility(ies)	1	cold water No	tsoluble
Partition coefficient: n- octanol/water	:	Not applicable.	
Auto-ignition temperature	:	Not available.	
Decomposition temperature	:	Not available.	
Viscosity	:	Øynamic (room temperature): Kinematic (room temperature) Kinematic (40°C (104°F)): >21	Not available.
Viscosity	:	> 100 s (ISO 6mm)	
Section 10. Stabili	ty	and reactivity	
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Section 10. Stabi	inty 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.

Section 10. Stability and reactivity Conditions to avoid : When exposed to high temperatures may produce hazardous decomposition products. Incompatible materials : Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids. Hazardous decomposition products : Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides halogenated compounds metal oxide/oxides

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
dicopper oxide	LC50 Inhalation Dusts and mists	Rat	3.34 mg/l	4 hours
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	500 mg/kg	-
rosin	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	7600 mg/kg	-
zinc oxide	LC50 Inhalation Dusts and mists	Rat	>5700 mg/m ³	4 hours
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
4-methylpentan-2-one	LC50 Inhalation Vapor	Rat	11 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	2.08 g/kg	-
diiron trioxide	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours
	LD50 Oral	Rat	10 g/kg	-
Solvent naphtha (petroleum), light aromatic	LD50 Dermal	Rabbit	3.48 g/kg	-
5	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 ³	4 hours
	LD50 Oral	Rat	5 g/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
,	LD50 Oral	Rat	4.3 g/kg	-
12-hydroxyoctadecanoic	LC50 Inhalation Dusts and mists	Rat	3.56 mg/l	4 hours
acid, reaction products with			Ū	
1,3-benzenedimethanamine				
and hexamethylenediamine				
ç	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
Terpineol	LD50 Oral	Rat	4300 mg/kg	-
copper oxide	LD50 Oral	Rat	>2000 mg/kg	-
copper	LC50 Inhalation Dusts and mists	Rat	>5.11 mg/l	4 hours
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
-	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
Canalysian/Symmetry	. There are no date evailable an	L		I

Conclusion/Summary

: There are no data available on the mixture itself.

Irritation/Corrosion

English (US) Arg

Section 11. Toxicological information

	<u> </u>							.
Product/ingredient name	Result			Species	Score	е	Exposure	Observation
xylene	Skin - Mode	Skin - Moderate irrit		Rabbit	-		24 hours 500	-
Terpineol	Skin - Irritar	nt		Rabbit	-		mg -	-
Conclusion/Summary				1	I			<u>.</u>
Skin	: There are	e no da	ita availa	ble on the mi	xture itse	elf.		
Eyes				ble on the mi				
Respiratory	: There are	e no da	ita availa	ble on the mi	xture itse	lf.		
<u>Sensitization</u>								
Product/ingredient name	Route of exposure		Species	j	_	Resu	ilt	
zineb (ISO)	skin		Guinea p			Sensitizing		
Terpineol	skin		Guinea	nea pig		Sens	sitizing	
Conclusion/Summary								
Skin	: zineb (IS	30) : We	eakly pos	sitive.				
Respiratory	: There are	e no da	ita availa	ble on the mi	xture itse	elf.		
Mutagenicity								
Not available.								
Conclusion/Summary Carcinogenicity Not available.	: There are	e no da	ta availa	ble on the mi	xture itse	lf.		
Conclusion/Summary <u>Classification</u>	: There are	e no da	ta availa	ble on the mi	xture itse	lf.		
Product/ingredient name	OSHA	IARC	NTP	1				
4-methylpentan-2-one	-	2B	-					
diiron trioxide	- !	3	-					
zineb (ISO)	-	3	-					

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: -

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Reproductive toxicity

Not available.

xylene

ethylbenzene

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

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2B

Teratogenicity

Not available.

Conclusion/Summary : There are no data available on the mixture itself. <u>Specific target organ toxicity (single exposure)</u>

Version

Section 11. Toxicological information

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

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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 lead monoxide	Category 2 Category 2	-	hearing organs -

Target organs

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

Aspiration hazard

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

Information on the likely routes of exposure	:	Not available.
Potential acute health effects		
Eye contact	1	Causes serious eye damage.
Inhalation	1	Harmful if inhaled.
Skin contact	:	May be harmful in contact with skin. Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	1	Harmful if swallowed.
Symptoms related to the phy	<u>sic</u>	cal, chemical and toxicological characteristics
Eye contact	:	Adverse symptoms may include the following: pain watering redness

Section 11. Toxic	ological information
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 effe	cts and also chronic effects from short and long term exposure
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. Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.
<u>Short term exposure</u>	
Potential immediate effects	: There are no data available on the mixture itself.
Potential delayed effects	: There are no data available on the mixture itself.
<u>Long term exposure</u>	
Potential immediate effects	: There are no data available on the mixture itself.
Potential delayed effects	: There are no data available on the mixture itself.
Potential chronic health eff	ects
Not available.	
General	: 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.
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.

Numerical measures of toxicity

Acute toxicity estimates

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)
SIGMA SAILADVANCE RX REDBROWN	1565.8	3135.0	N/A	60.4	3.8
dicopper oxide	500	2500	N/A	N/A	3.34
rosin	7600	2500	N/A	N/A	N/A
zinc oxide	N/A	2500	N/A	N/A	N/A
4-methylpentan-2-one	2080	N/A	N/A	11	1.5
diiron trioxide	10000	N/A	N/A	N/A	N/A
Solvent naphtha (petroleum), light aromatic	8400	3480	N/A	N/A	N/A
zineb (ISO)	2500	N/A	N/A	N/A	N/A
1,2,4-trimethylbenzene	5000	N/A	N/A	18	1.5
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

Product/ingredient name	Result	Species	Exposure
dicopper oxide	LC50 0.003 mg/l	Fish	96 hours
zinc oxide	Acute EC50 0.17 mg/l	Algae	72 hours
	Acute EC50 0.481 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Chronic NOEC 0.017 mg/l Fresh water	Algae	72 hours
4-methylpentan-2-one	Acute LC50 >179 mg/l	Fish	96 hours
diiron trioxide	Acute EC50 >100 mg/l	Daphnia	48 hours
Solvent naphtha (petroleum), light aromatic	Acute LC50 8.2 mg/l	Fish	96 hours
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	Acute EC50 >100 mg/l	Algae - Pseudokirchneriella subcapitata (microalgae)	72 hours
ý	Acute EC50 >100 mg/l	Daphnia - <i>Daphnia magna</i> (Water flea)	48 hours
	Acute LC50 >100 mg/l	Fish - Oncorhynchus mykiss (rainbow trout)	96 hours
	Chronic NOEC 100 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
	Chronic NOEC ≥50 mg/l	Daphnia - <i>Daphnia magna</i> (Water flea)	21 days
copper	Acute LC50 810 ppb	Fish	96 hours
	Chronic EC10 8.1 µg/l	Daphnia - <i>Daphnia magna</i> -	21 days
	<u> </u>	nglish (US) Argentina	13/1

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Section 12. Ecological information

		Neonate	
ethylbenzene	Acute EC50 1.8 mg/l 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 ethylbenzene	OECD 301F OECD 301D Ready Biodegradability - Closed Bottle Test	83 % - Readily - 28 days 9 % - Not readily - 29 days		-		-
ettiyiberizerie	-	19 /0 - Nea	auliy - 10 uays	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biode	gradability
4-methylpentan-2-one xylene ethylbenzene	- -		- - -		Readil Readil Readil	ý

Bioaccumulative potential

LogPow	BCF	Potential	
1.9 to 7.7	-	High	
1.9	-	Low	
1.3	-	Low	
3.63	120.23	Low	
3.98	-	Low	
3.12	7.4 to 18.5	Low	
>6	-	High	
2.6			
	79 43		
	1.9 to 7.7 1.9 1.3 3.63 3.98 3.12	1.9 to 7.7 - 1.9 - 1.3 - 3.63 120.23 3.98 - 3.12 7.4 to 18.5 >6 - 2.6 -	1.9 to 7.7 - High 1.9 - Low 1.3 - Low 3.63 120.23 Low 3.98 - Low 3.12 7.4 to 18.5 Low >6 - High 2.6 - 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 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

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Section 13. Disposal considerations

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
UN1263	UN1263	UN1263	UN1263
PAINT	PAINT	PAINT	PAINT
3	3	3	3
III	III	III	III
Yes. The environmentally hazardous substance mark is not required. Not applicable.	Yes. The environmentally hazardous substance mark is not required. Not applicable.	Yes. (dicopper oxide)	Yes. The environmentally hazardous substance mark is not required. Not applicable.
	UN1263 PAINT 3 III Yes. The environmentally hazardous substance mark is not required.	UN1263UN1263PAINTPAINT33IIIIIIYes. The environmentally hazardous substance mark is not required.Yes. The environmentally hazardous substance mark is not required.	UN1263UN1263UN1263PAINTPAINTPAINT333IIIIIIIIIYes. The environmentally hazardous substance mark is not required.Yes.

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 procesti	the second se

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

: No known specific national and/or regional regulations applicable to this product (including its ingredients).

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Section 16. Other information

<u>History</u>	
Date of previous issue	: 7/1/2024
Version	: 1.06 EHS
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.