SAFETY DATA SHEET



Date of issue 16 December 2024

Version 3.03

Section 1. Product and company identification

Product name
Product code
Other means of identification
Product type

- : PPG SIGMA SAILADVANCE RX BROWN
- : 00444778
- : 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 Industrial do Brasil – Tintas e Vernizes Ltda Via Anhanguera KM 106, Bairro Sao Judas Tadeu Sumare / SP, Brasil 55 19 2103-6000 (Recepção e Portaria)
Email address:	: HazComLatam@ppg.com
Emergency telephone number	: 0800 707 1767 / 0800 707 7022 – Empresa Suatrans Cotec 0800 14 8110 – CEATOX - Centro de Assistência Toxicológica

Section 2. Hazards identification

Classification of the substance or mixture	: FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 5 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2 AQUATIC HAZARD (ACUTE) - Category 1
Target organs	 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, eye, lens or cornea.

Product name PPG SIGMA	A SAILADVANCE RX BROWN
Section 2. Hazards	s identification
	Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 7.9%
	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 26.6%
	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 31.2%
	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 9.5%
GHS label elements	
Hazard pictograms	
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.

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

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

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

SUB codes represent substances without registered CAS Numbers.

Section 4. First aid measures

Description of necessary 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) South America 3/16

Code 00444778 Product name PPG SI	GMA SAILADVANCI	Date of issue E RX BROWN	16 December 2024	Version	3.03
Section 4. First	aid measu	ires			
Protection of first-aiders	is suspe mask or providing	cted that fumes are still p self-contained breathing	any personal risk or withor resent, the rescuer should apparatus. It may be dan uth resuscitation. Wash o oving it, or wear gloves.	l wear an app gerous to the	ropriate person
Potential acute health eff	ects				
Eye contact	: Causes	serious eye damage.			
Inhalation	: Harmful	if inhaled.			

: May be harmful in contact with skin. Causes skin irritation. Defatting to the skin.

Ingestion

Skin contact

: Harmful if swallowed.

May cause an allergic skin reaction.

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. A	ccidental release	e measures			
For emergency resp			and unsuitable materials.		
·	environmental p May be harmful	ers. Inform the releva ollution (sewers, wat to the environment in	nd runoff and contact with ant authorities if the produ terways, soil or air). Wate f released in large quantit	uct has cause er polluting ma	d aterial.
Methods and materi	als for containment and cl	<u>eaning up</u>			
Small spill	and explosion-p Alternatively, or	roof equipment. Dilu if water-insoluble, ab	iners from spill area. Us ute with water and mop up psorb with an inert dry ma r. Dispose of via a licens	o if water-solu Iterial and plac	ble. ce in an
Large spill	and explosion-p sewers, water c effluent treatme combustible, ab and place in cor Dispose of via a material may po	roof equipment. App ourses, basements on nt plant or proceed a sorbent material e.g. ntainer for disposal a licensed waste disp se the same hazard	niners from spill area. Us proach release from upwi or confined areas. Wash s follows. Contain and co sand, earth, vermiculite ccording to local regulation osal contractor. Contami as the spilled product. N Section 13 for waste disp	nd. Prevent e spillages into ollect spillage or diatomacec ons (see Secti inated absorb lote: see Secti	entry into an with non- ous earth on 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

Control parameters

Occupational exposure limits

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

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Section 8. Exposu	re controls/personal p	rotection		
Recommended monitoring procedures	: Reference should be made to app national guidance documents for r substances will also be required.			

Appropriate engineering : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne controls 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 : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some controls cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures : Wash hands, forearms and face thoroughly after handling chemical products, **Hygiene measures** before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. Eye protection : Chemical splash goggles and face shield. Skin protection Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. Gloves : butyl rubber **Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. : Respirator selection must be based on known or anticipated exposure levels, the **Respiratory protection** 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	1	Brown.			
Odor	:	Aromatic. [Slight]			
рН	1	Not applicable.			
Melting point	:	Not available.			
Boiling point	:	>37.78°C (>100°F)			
Flash point	:	Ølosed cup: 31°C (87.8°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	:	1.66			
Colubility/icc)		Media Result			
Solubility(ies)	1	cold water Not soluble			
Partition coefficient: n- octanol/water	:	Not applicable.			
Auto-ignition temperature	:	Not available.			
Decomposition temperature	:	Not available.			
Viscosity	:	Dynamic (room temperature): Not available. Kinematic (room temperature): Not available. Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)			
Viscosity	:	> 100 s (ISO 6mm)			

Section 10. Stability and reactivity

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

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
dicopper oxide	LC50 Inhalation Dusts and mists	Rat	3.34 mg/l	4 hours
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	500 mg/kg	-
rosin	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	7600 mg/kg	-
zinc oxide	LC50 Inhalation Dusts and mists	Rat	>5700 mg/m 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	-
Solvent naphtha (petroleum), light aromatic	LD50 Dermal	Rabbit	3.48 g/kg	-
0	LD50 Oral	Rat	8400 mg/kg	-
zineb (ISO)	LD50 Oral	Rat	>2000 mg/kg	-
1,2,4-trimethylbenzene	LC50 Inhalation Vapor	Rat	18000 mg/m ³	4 hours
	LD50 Oral	Rat	5 g/kg	-
diiron trioxide	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours
	LD50 Oral	Rat	10 g/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	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				
1,3-benzenedimethanamine				
and hexamethylenediamine				
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
Terpineol	LD50 Oral	Rat	4300 mg/kg	-
copper oxide	LD50 Oral	Rat	>2000 mg/kg	-
copper	LC50 Inhalation Dusts and mists	Rat	>5.11 mg/l	4 hours
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-

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

Irritation/Corrosion

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

Section 11. Toxico	Route of		Species	Result	
Product/ingredient name	exposure		species	Result	
zineb (ISO) Terpineol	skin skin		Guinea pig Guinea pig	Sensitizing Sensitizing	
Conclusion/Summary					
Skin		-	akly positive.		
Respiratory	: There a	re no data	a available on the	mixture itself.	
<u>Autagenicity</u>					
Not available.					
Conclusion/Summary	: There a	re no data	a available on the	mixture itself.	
Carcinogenicity	-				
Not available.					
Conclusion/Summary	: There a	re no data	a available on the	mixture itself.	
<u>Classification</u>					
Product/ingredient name	OSHA	IARC	NTP		
4-methylpentan-2-one	-	2B	-		
zineb (ISO)	-	3	-		
diiron triovido	-	3	-		
diiron trioxide	-	3	-		
xylene		00			
xylene carbon black	-	2B 2B			
xylene carbon black ethylbenzene	- -	2B 2B	-		
xylene carbon black ethylbenzene Carcinogen Classification o			-		
xylene carbon black ethylbenzene Carcinogen Classification of IARC: 1, 2A, 2B, 3, 4		2B		to be a human carcinogen	
xylene carbon black ethylbenzene Carcinogen Classification of IARC: 1, 2A, 2B, 3, 4 NTP: Known to be a OSHA: +	a human carc	2B		l to be a human carcinogen	
xylene carbon black ethylbenzene Carcinogen Classification of IARC: 1, 2A, 2B, 3, 4 NTP: Known to be a	a human carc	2B		l to be a human carcinogen	
xylene carbon black ethylbenzene Carcinogen Classification of IARC: 1, 2A, 2B, 3, 4 NTP: Known to be a OSHA: +	a human carc	2B		l to be a human carcinogen	

Not available.

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

Specific target organ toxicity (single exposure)

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

English (US)

South America

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Section 11. Toxicological information

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	:	Causes serious eye damage.			
Inhalation	:	rmful 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>'si</u>	cal, 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	1	Adverse symptoms may include the following: stomach pains			

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

English (US)	South America
English	03)	South America

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Sectio	n 11. ˈ	Toxicological informatio	n			

Conclusion/Summary	:	There are no data available on the mixture itself. Contains lead. Exposure to lead dust and fumes adversely affects blood and blood forming tissues, kidneys, liver, the central/peripheral nervous systems and male/female reproductive organs. Lead exposure causes adverse developmental effects including brain damage in children and unborn fetuses. Carbon black is utilized as a raw material in many liquid coating formulations. In this case, the carbon black particles are bound in a matrix with no meaningful potential for human exposure to unbound particles of carbon black when the product is applied with a brush or roller. Sanding the coating surface or mist from spray applications may be harmful depending on the duration and level of exposure and require the use of appropriate personal protective equipment and/ or engineering controls (see Section 8). Most carbon blacks contain trace quantities of polyaromatic hydrocarbons (PAH). PAHs are not expected to be released in biological fluids and are therefore not likely available for biological activity. Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse 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 form short-term and long-term exposure by oral, inhalation and dermal routes of
<u>Short term exposure</u>		
Potential immediate effects	1	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	1	There are no data available on the mixture itself.
Potential delayed effects	1	There are no data available on the mixture itself.
Potential chronic health effe	ect	<u>s</u>
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

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Section 11. Toxicological information

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
PPG SIGMA SAILADVANCE RX BROWN	1543.7	3168.7	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
Solvent naphtha (petroleum), light aromatic	8400	3480	N/A	N/A	N/A
zineb (ISO)	2500	N/A	N/A	N/A	N/A
1,2,4-trimethylbenzene	5000	N/A	N/A	18	1.5
diiron trioxide	10000	N/A	N/A	N/A	N/A
xylene	4300	1700	N/A	11	1.5
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	2500	2500	N/A	N/A	3.56
Terpineol	4300	N/A	N/A	N/A	N/A
copper oxide	2500	N/A	N/A	N/A	N/A
ethylbenzene	3500	17800	N/A	17.8	1.5
lead monoxide	500	N/A	N/A	11	1.5

Other information

: Not available.

Section 12. Ecological information

Ecotoxicity

5	Exposure
	96 hours
	72 hours
a - Daphnia magna - e	48 hours
	72 hours
	96 hours
	96 hours
a	48 hours
Pseudokirchneriella ťata (microalgae)	72 hours
a - Daphnia magna flea)	48 hours
ncorhynchus mykiss v trout)	96 hours
Pseudokirchneriella itata	72 hours
a - Daphnia magna flea)	21 days
,	96 hours
a - Daphnia magna -	21 days
a -	Daphnia magna - South America

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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	OECD 301F OECD 301D Ready Biodegradability - Closed Bottle Test	9 % - Not r	ıdily - 28 days eadily - 29 days	-		-
ethylbenzene	-	79 % - Rea	idily - 10 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biode	gradability
4-methylpentan-2-one xylene ethylbenzene	- -		- -		Readil Readil Readil	ý

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential	
rosin	1.9 to 7.7	-	High	
4-methylpentan-2-one	1.9	-	Low	
zineb (ISO)	1.3	-	Low	
1,2,4-trimethylbenzene	3.63	120.23	Low	
3-ethyltoluene	3.98	-	Low	
xylene	3.12	7.4 to 18.5	Low	
12-hydroxyoctadecanoic	>6	-	High	
acid, reaction products with				
1,3-benzenedimethanamine				
and hexamethylenediamine				
Terpineol	2.6	-	Low	
ethylbenzene	3.6	79.43	Low	

Mobility in soil

Soil/water partition 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

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

Additional information

UN	: None identified.
Brazil	: None identified.
Risk number	: 30
IMDG	: The marine pollutant mark is not required when transported in sizes of $\leq 5 \text{ L}$ or $\leq 5 \text{ kg}$.
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.
Special precaution	ons for user : Transport within user's premises: always transport in closed containers that are

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).

Section 16. Other information

<u>History</u>	
Date of previous issue	: 10/25/2024
Version	: 3.03 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.