# **SAFETY DATA SHEET**



Date of issue 12 April 2024

Version 1.02

### Section 1. Product and company identification

Product name	1	F
Product code	:	(
Other means of identification	:	(
Product type	:	L

- PPG SIGMA SAILADVANCE RX REDBROWN 000001188845
- : 00444779
  - 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

: 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
: 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.

Code 000001188845 Product name PPG SIGMA	Date of issue         12 April 2024         Version           LADVANCE RX REDBROWN	1.02
Section 2. Hazards	Jentification	
	Percentage of the mixture consisting of ingredient(s) of unknown acute of 3.3%	oral toxicity:
	Percentage of the mixture consisting of ingredient(s) of unknown acute of toxicity: 23.3%	
	Percentage of the mixture consisting of ingredient(s) of unknown acute i toxicity: 26.5%	inhalation
	Percentage of the mixture consisting of ingredient(s) of unknown hazarc aquatic environment: 4.9%	ls to the
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, protectiv and eye or face protection. Keep away from heat, hot surfaces, sparks, flames and other ignition sources. No smoking. Use explosion-proof ele ventilating or lighting equipment. Use non-sparking tools. Take action t static discharges. Avoid release to the environment. Avoid breathing va eat, drink or smoke when using this product. Wash thoroughly after har	open ectrical, o prevent apor. Do not
Response	Collect spillage. IF exposed or concerned: Get medical advice or attent INHALED: Call a POISON CENTER or doctor if you feel unwell. Take o contaminated clothing and wash it before reuse. IF ON SKIN: Call a PC CENTER or doctor if you feel unwell. Wash with plenty of water. If skin rash occurs: Get medical advice or attention. IF IN EYES: Rinse caution water for several minutes. Remove contact lenses, if present and easy t Continue rinsing. Immediately call a POISON CENTER or doctor.	off DISON irritation or usly with
Storage	Store in a well-ventilated place. Keep cool.	
Disposal	Dispose of contents and container in accordance with all local, regional, and international regulations.	national
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

: 00444779

#### **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
diiron trioxide	5 - <7	1309-37-1
Solvent naphtha (petroleum), light aromatic	5 - <7	64742-95-6
zineb (ISO)	3 - <5	12122-67-7
1,2,4-trimethylbenzene	3 - <5	95-63-6
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	<ul> <li>Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.</li> </ul>
Inhalation	: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
Ingestion	: If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.
Indication of immediate r	nedical attention and special treatment needed, if necessary
Notes to physician Specific treatments	<ul> <li>In case of inhalation of decomposition products in a fire, symptoms may be delayed.</li> <li>The exposed person may need to be kept under medical surveillance for 48 hours. No specific treatment.</li> </ul>

English (US)

Argentina

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Section 4. First a	neasures		
Protection of first-aiders	No action shall be taken invol is suspected that fumes are s mask or self-contained breath providing aid to give mouth-to thoroughly with water before n	till present, the rescuer sho ing apparatus. It may be da -mouth resuscitation. Wash	uld wear an appropriate angerous to the person
Potential acute health effec			
Eye contact	Causes serious eye damage.		
Inhalation	Harmful if inhaled.		
Skin contact	May be harmful in contact wit May cause an allergic skin rea		n. Defatting to the skin.
Ingestion	Harmful if swallowed.		

See toxicological information (Section 11)

### Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides metal oxide/oxides oxides of lead
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	<ul> <li>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</li> </ul>

## Section 6. Accidental release measures

Personal precautions, pr	otective 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 measures			
For emergency responder	<ul> <li>If specialized clothing is required to information in Section 8 on suitable information in "For non-emergency</li> </ul>	and unsuitable materia		
Environmental precautions	<ul> <li>Avoid dispersal of spilled material ar drains and sewers. Inform the relev environmental pollution (sewers, wa May be harmful to the environment i</li> </ul>	ant authorities if the pro terways, soil or air).  W	oduct has cause ater polluting ma	d aterial.
Methods and materials for	containment and cleaning up			
Small spill	: Stop leak if without risk. Move conta and explosion-proof equipment. Dilu Alternatively, or if water-insoluble, al appropriate waste disposal containe contractor.	ute with water and mop psorb with an inert dry i	up if water-solu material and plac	ble. ce in an
Large spill	: Stop leak if without risk. Move conta and explosion-proof equipment. Ap sewers, water courses, basements of effluent treatment plant or proceed a combustible, absorbent material e.g and place in container for disposal a Dispose of via a licensed waste disp material may pose the same hazard emergency contact information and	broach release from up or confined areas. Wa is follows. Contain and sand, earth, vermiculi ccording to local regula osal contractor. Conta as the spilled product.	wind. Prevent e sh spillages into d collect spillage te or diatomaced ations (see Secti minated absorb Note: see Secti	ntry into an with non- ous earth on 13). ent
Section 7. Handl	ing and storage			
Precautions for safe handling	: Put on appropriate personal protect history of skin sensitization problect which this product is used. Avoid	ns should not be empl	oyed in any proc	ess in

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,	4	Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in
including any		accordance with local regulations. Store in a segregated and approved area. Store
incompatibilities		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.

#### 1.02

## Section 8. Exposure controls/personal protection

#### **Control parameters**

#### **Occupational exposure limits**

Ingredient name	Exposure limits
dicopper oxide	ACGIH TLV (United States, 1/2023). [Copper Fume]
rosin	TWA: 0.2 mg/m <sup>3</sup> 8 hours. Form: Fume Ministry of Labor, Employment and Social Security. Argentina (Resolution 295,11/2003) (Argentina, 11/2003). Skin
zinc oxide	sensitizer. 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.
diiron trioxide	STEL: 75 ppm 15 minutes. Ministry of Labor, Employment and Social Security. Argentina (Resolution 295,11/2003) (Argentina, 11/2003).
1,2,4-trimethylbenzene	TWA: 5 mg/m <sup>3</sup> , (as Fe) 8 hours. Form: dust and fume <b>Ministry of Labor, Employment and</b>
	Social Security. Argentina (Resolution 295,11/2003) (Argentina, 11/2003). [Trimethylbenzene (mixed isomers)] TWA: 25 ppm 8 hours.
Limestone	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: respirable fibers: length > 5 .mu.m; length / diameter ratio (aspect) <sup>3</sup> 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). [Xylene (o-, m-, p-isomers)] TWA: 100 ppm 8 hours.
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	STEL: 150 ppm 15 minutes. <b>ACGIH TLV (United States).</b> TWA: 10 mg/m <sup>3</sup> Form: Inhalable particle
	TWA: 3 mg/m³, (inhalable dust) Form: Respirable particle

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Recommended monitoring procedures	Reference should be made to appropriate monitoring standards. Reference anational guidance documents for methods for the determination of haza substances will also be required.	
Appropriate engineering controls	Use only with adequate ventilation. Use process enclosures, local exha ventilation or other engineering controls to keep worker exposure to airb contaminants below any recommended or statutory limits. The enginee also need to keep gas, vapor or dust concentrations below any lower ex limits. Use explosion-proof ventilation equipment.	oorne ering control:
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked they comply with the requirements of environmental protection legislatio cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.	n. In some
ndividual protection measur		
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical pro- before eating, smoking and using the lavatory and at the end of the worl Appropriate techniques should be used to remove potentially contamina Contaminated work clothing should not be allowed out of the workplace. contaminated clothing before reusing. Ensure that eyewash stations an showers are close to the workstation location.	king period. ated clothing . Wash
Eye protection Skin protection	Chemical splash goggles and face shield.	
Hand protection	Chemical-resistant, impervious gloves complying with an approved stan be worn at all times when handling chemical products if a risk assessme this is necessary. Considering the parameters specified by the glove ma check during use that the gloves are still retaining their protective proper should be noted that the time to breakthrough for any glove material ma different for different glove manufacturers. In the case of mixtures, cons several substances, the protection time of the gloves cannot be accurate estimated.	ent indicates anufacturer rties. It ay be sisting of
Gloves	butyl rubber	
Body protection	Personal protective equipment for the body should be selected based of being performed and the risks involved and should be approved by a sp before handling this product. When there is a risk of ignition from static wear anti-static protective clothing. For the greatest protection from statid discharges, clothing should include anti-static overalls, boots and gloves	ecialist electricity, tic s.
Other skin protection	Appropriate footwear and any additional skin protection measures shoul selected based on the task being performed and the risks involved and approved by a specialist before handling this product.	
Respiratory protection	Respirator selection must be based on known or anticipated exposure le hazards of the product and the safe working limits of the selected respir workers are exposed to concentrations above the exposure limit, they m appropriate, certified respirators. Use a properly fitted, air-purifying or a respirator complying with an approved standard if a risk assessment ind necessary.	ator. If nust use iir-fed

### Section 9. Physical and chemical properties

Physical state	1	Liquid.	
Color	1	Brownish-red.	
Odor	1	Aromatic. [Slight]	
рН	:	Not applicable.	
Melting point	1	Not available.	
Boiling point	:	>37.78°C (>100°F)	
Flash point	:	Closed cup: 28°C (82.4°F)	
Evaporation rate	:	Not available.	
Flammability (solid, gas)	:	Not available.	
Lower and upper explosive (flammable) limits	:	Not available.	
Vapor pressure	:	Not available.	
Vapor density	1	Not available.	
Relative density	:	1.67	
Solubility(ies)		Media	Result
		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)
Viscosity	:	> 100 s (ISO 6mm)	
Solubility(ies) Partition coefficient: n- octanol/water Auto-ignition temperature Decomposition temperature	: : : :	Media cold water Not applicable. Not available. Not available.	Not soluble

## 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
dícopper oxide	LC50 Inhalation Dusts and mists	Rat	3.34 mg/l	4 hours
• • •	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	500 mg/kg	-
rosin	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	7600 mg/kg	-
zinc oxide	LC50 Inhalation Dusts and mists	Rat	>5700 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
4-methylpentan-2-one	LC50 Inhalation Vapor	Rat	11 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	2.08 g/kg	-
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 <sup>3</sup>	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 acid, reaction products with 1,3-benzenedimethanamine	LC50 Inhalation Dusts and mists	Rat	3.56 mg/l	4 hours
and hexamethylenediamine				
and nexametrylenealamine	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	-
		1.01	0.0 9/109	

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

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
<b>x</b> ylene	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 avai	lable on the mi	xture itself.		
Respiratory <u>Sensitization</u>	: There are no data avai	lable on the mi	xture itself.		

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Section 11. Toxice	ologica	l infor	mation				
Product/ingredient name	Route of exposure	Sp	ecies		Result		
zineb (ISO) Terpineol	skin skin		uinea pig uinea pig		Sensitizing Sensitizing		
Conclusion/SummarySkin: zineb (ISO): Weakly positive.Respiratory: There are no data available on the mixture itself.MutagenicityNot available.Conclusion/Summary: There are no data available on the mixture itself.CarcinogenicityNot available.Not available.							
Conclusion/Summary <u>Classification</u>	: There a	re no data	available on th	e mixture itsel	f.		
Product/ingredient name -methylpentan-2-one diiron trioxide zineb (ISO) xylene ethylbenzene Carcinogen Classification IARC: 1, 2A, 2B, 3,	- - - - - - - - - - - - - - - - - - -	2B 3 3 3 2B	- - - -				
NTP: Known to be OSHA: + Not listed/not regu Reproductive toxicity Not available. Conclusion/Summary Teratogenicity Not available.	lated: -	-	sonably anticipat available on th		-		

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

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

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

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

English (US) Argentina 10/10			
	English (US)	Argentina	10/16

## Section 11. Toxicological information

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

Target organs

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

eye, lens or cornea.

#### **Aspiration hazard**

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

Information on the likely routes of exposure	:	Not available.
Potential acute health effects	2	
Eye contact	:	Causes serious eye damage.
Inhalation	:	Harmful if inhaled.
Skin contact	:	May be harmful in contact with skin. Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	:	Harmful if swallowed.
Symptoms related to the phy	vsio	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	:	Adverse symptoms may include the following: stomach pains

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

### Section 11. Toxicological information

	<b>–</b>
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.
Short term exposure	
Potential immediate effects	: There are no data available on the mixture itself.
Potential delayed effects	: There are no data available on the mixture itself.
Long term exposure	
Potential immediate effects	: There are no data available on the mixture itself.
Potential delayed effects	: There are no data available on the mixture itself.
Potential chronic health eff	ects
Not available.	
General	<ul> <li>Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/ or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.</li> </ul>
Carcinogenicity	: Suspected of causing cancer. Risk of cancer depends on duration and level of

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)
PPG SIGMA SAILADVANCE RX REDBROWN	1565.8	3335.8	N/A	64.5	4.0
dicopper oxide	500	2500	N/A	N/A	3.34
rosin	7600	2500	N/A	N/A	N/A
zinc oxide	N/A	2500	N/A	N/A	N/A
4-methylpentan-2-one	2080	N/A	N/A	11	1.5
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
		English (l	JS) Argentir	na	12/16

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Section 11. Toxicological info	rmation				
1,2,4-trimethylbenzene xylene	5000 4300	N/A 1700	N/A N/A	18 11	1.5 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
,	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
copper	Acute LC50 810 ppb	Fish	96 hours
	Chronic EC10 8.1 µg/l	Daphnia - <i>Daphnia magna</i> - Neonate	21 days
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-

Persistence/degradability

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### Section 12. Ecological information

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	dily - 28 days eadily - 29 days	-		-
ethylbenzene	-	79 % - Rea	dily - 10 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
methylpentan-2-one xylene ethylbenzene	- -		-		Readily Readily Readily	/

#### **Bioaccumulative potential**

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

English (US)	Argentina	14/16
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### 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		III	III
Environmental hazards	Yes. The environmentally hazardous substance mark is not required.	Yes. The environmentally hazardous substance mark is not required.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	Not applicable.	(dicopper oxide)	Not applicable.

Additional inform	nation						
UN	: None identified.						
Brazil	: None identified.						
<b>Risk number</b>	: 30						
IMDG	: The marine pollutant mark is not required when transported in sizes of $\leq$ 5 L or $\leq$ 5 kg.						
IATA	<ul> <li>The environmentally hazardous substance mark may appear if required by other transportation regulations.</li> </ul>						
Special precautio	<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.						
Transport in bulk to IMO instrumer	according : Not applicable. hts						
Section 15	Section 15. Regulatory information						

# Safety, health and : No known specific national and/or regional regulations applicable to this product

environmental regulations (including its ingredients). specific for the product

## Section 16. Other information

Н	iste	ory	

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	EHS

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## Section 16. Other information

Key to abbreviations	: ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
	ADR = The European Agreement concerning the International Carriage of
	Dangerous Goods by Road
	ATE = Acute Toxicity Estimate
	BCF = Bioconcentration Factor
	GHS = Globally Harmonized System of Classification and Labelling of Chemicals
	IATA = International Air Transport Association
	IMDG = International Maritime Dangerous Goods
	LogPow = logarithm of the octanol/water partition coefficient
	MARPOL = International Convention for the Prevention of Pollution From Ships,
	1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
	RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
	UN = United Nations
References	: ABNT NBR 14725-4: 2014
	ANTT - National Land Transportation Agency

Indicates information that has changed from previously issued version.

#### **Disclaimer**

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.