# **SAFETY DATA SHEET**



Date of issue 12 April 2024

Version 3.01

# Section 1. Product and company identification

Product name
Product code
Other means of identification
Product type

- : SIGMA SAILADVANCE GX REDBROWN
- : 00371293
- : Not available.
  - : Liquid.

#### Relevant identified uses of the substance or mixture and uses advised against

#### **Identified uses**

Coating. Paints. Painting-related materials.

Uses advised against	Reason
Not applicable.	

Supplier's details:	
Supplier	: PPG Industries Uruguay SA Av. Italia 5846 esq. Ancona – Montevideo Uruguay Tel. +598 26000514 Fax. +598 26003032
Email address:	: HazComLatam@ppg.com
Emergency telephone number	: Hospital de Clinicas- CIAT- 1722

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

Code 00371293 Product name SIGMA SAIL	ADVANCE GX	Date of issue REDBROWN	12 April 2024	Version	3.01
Section 2. Hazards identification					
	1.9% Percentag toxicity: 22 Percentag toxicity: 29	ge of the mixture consis 2.6% ge of the mixture consis 9.4%	ting of ingredient(s) of ur ting of ingredient(s) of ur ting of ingredient(s) of ur ting of ingredient(s) of ur	nknown acute d	ermal halation
GHS label elements					
Hazard pictograms				72	
Signal word	: Danger	• •	•	•	
Hazard statements	Harmful if May be ha Causes s May caus Causes so Suspected	le liquid and vapor. swallowed or if inhaled armful in contact with sk kin irritation. e an allergic skin reaction erious eye damage. d of causing cancer. to aquatic life with long	kin. on.		
Precautionary statements					
Prevention	and eye o flames an ventilating static disc	r face protection. Keep Id other ignition sources g or lighting equipment. charges. Avoid release	e use. Wear protective g away from heat, hot sur a No smoking. Use expl Use non-sparking tools. to the environment. Avo his product. Wash thoro	faces, sparks, c osion-proof elec Take action to id breathing var	open ctrical, prevent por. Do not
Response	INHALED contamina CENTER rash occu water for s	: Call a POISON CENT ated clothing and wash or doctor if you feel unv rs: Get medical advice several minutes. Remov	oncerned: Get medical a ER or doctor if you feel u it before reuse. IF ON S vell. Wash with plenty of or attention. IF IN EYES ve contact lenses, if pres all a POISON CENTER o	unwell. Take off KIN: Call a POI f water. If skin i S: Rinse cautious sent and easy to	SON rritation or sly with
Storage	: Store in a	well-ventilated place. K	leep cool.		
Disposal		of contents and containe national regulations.	er in accordance with all	local, regional, r	national
Other hazards which do not result in classification	: Prolonged	d or repeated contact m	ay dry skin and cause irr	itation.	

# Section 3. Composition/information on ingredients

#### Substance/mixture Other means of identification

**CAS number** 

: Mixture

: Not available.

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

: Not applicable.

Ingredient name	%	CAS number
dicopper oxide	30 - <60	1317-39-1
rosin	10 - <12.5	8050-09-7
zineb (ISO)	7 - <10	12122-67-7
4-methylpentan-2-one	7 - <10	108-10-1
zinc oxide	5 - <7	1314-13-2
diiron trioxide	3 - <5	1309-37-1
Solvent naphtha (petroleum), light aromatic	3 - <5	64742-95-6
xylene	3 - <5	1330-20-7
1,2,4-trimethylbenzene	2 - <3	95-63-6
3-ethyltoluene	1 - <2	620-14-4
Talc, not containing asbestiform fibres	1 - <2	14807-96-6
copper oxide	1 - <2	1317-38-0
Terpineol	1 - <2	8000-41-7
copper	0.5 - <1	7440-50-8
ethylbenzene	0.5 - <1	100-41-4

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 i irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.	S
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 med	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 delaye The exposed person may need to be kept under medical surveillance for 48 hours No specific treatment.	

Code00371293Product nameSIGMA S	AILADVANCE GX	Date of issue REDBROWN	12 April 2024	Version 3.01
Section 4. First a	id measu	ires		
Protection of first-aiders	is suspe mask or providing	n shall be taken involving cted that fumes are still p self-contained breathing g aid to give mouth-to-mo ly with water before remo	resent, the rescuer shou apparatus. It may be da uth resuscitation. Wash	uld wear an appropriate angerous to the person
Potential acute health effe	<u>cts</u>			
Eye contact	: Causes	serious eye damage.		
Inhalation	: Harmful	if inhaled.		
Skin contact		narmful in contact with sk se an allergic skin reactio		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
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, protective equipment and emergency procedures			
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.		
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".		

# Section 6. Accidental release measures

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

# 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.

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# Section 8. Exposure controls/personal protection

#### **Control parameters**

#### **Occupational exposure limits**

Ingredient name	Exposure limits
dícopper oxide	ACGIH TLV (United States, 1/2023).
	[Copper Fume]
	TWA: 0.2 mg/m <sup>3</sup> 8 hours. Form: Fume
rosin	ACGIH TLV (United States, 1/2023). [resin
	acids as total Resin acids] Skin sensitizer
	Inhalation sensitizer.
	TWA: 0.001 mg/m <sup>3</sup> , (as total Resin acids) 8
1 methylaester 0 ere	hours. Form: Inhalable fraction
4-methylpentan-2-one	ACGIH TLV (United States, 1/2023).
	STEL: 75 ppm 15 minutes. TWA: 20 ppm 8 hours.
zinc oxide	ACGIH TLV (United States, 1/2023).
	STEL: 10 mg/m <sup>3</sup> 15 minutes. Form:
	Respirable fraction
	TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable
	fraction
diiron trioxide	ACGIH TLV (United States, 1/2023).
	TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable
	fraction
xylene	Ministry of Labor and Employment (Brazi
	11/2001). [Xylenes (o-, m-, p- isomers)]
	TWA: 340 mg/m <sup>3</sup> 8 hours.
	TWA: 78 ppm 8 hours.
1,2,4-trimethylbenzene	ACGIH TLV (United States, 1/2023).
	TWA: 10 ppm 8 hours.
Talc , not containing asbestiform fibres	ACGIH TLV (United States, 1/2023).
	TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable
copper oxide	ACGIH TLV (United States, 1/2023).
	[Copper Fume]
	TWA: 0.2 mg/m <sup>3</sup> 8 hours. Form: Fume
copper	ACGIH TLV (United States, 1/2023).
	[Copper Dusts and mists, as Cu]
	TWA: 1 mg/m³, (as Cu) 8 hours. Form: Dust and mist
	ACGIH TLV (United States, 1/2023).
	[Copper Fume]
	TWA: 0.2 mg/m <sup>3</sup> 8 hours. Form: Fume
ethylbenzene	Ministry of Labor and Employment (Brazi
	TWA: 340 mg/m <sup>3</sup> 8 hours.
	TWA: 78 ppm 8 hours.

national guidance documents for methods for the determination of hazardous substances will also be required.

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•	ure controls/personal protection
Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measu	<u>ires</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye protection Skin protection	: Chemical splash goggles and face shield.
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Gloves	: butyl rubber
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

# Appearance Physical state : Liquid. Color : Brownish-red. Odor : Aromatic. [Slight] pH : Not applicable. Melting point : Not available. Boiling point : >37.78°C (>100°F) English (US) Uruguay

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# Section 9. Physical and chemical properties

Flash point	:	Closed cup: 27°C (80.6°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	:	1.76		
Solubility(ies)		Media Result		
Solubility(les)	1	cold water Not solut	ble	
Partition coefficient: n- octanol/water	:	Not applicable.		
Auto-ignition temperature	1	Not available.		
Decomposition temperature	:	Not available.		
Viscosity	:	Kinematic (40°C (104°F)): >21 mm²/	′s (>21 cSt)	
Viscosity	:	60 - 100 s (ISO 6mm)		

# Section 10. Stability and reactivity

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

# Section 11. Toxicological information

Information on toxicological effects Acute toxicity 3.01

Code 00371293 Product name SIGMA SAI	Date of issue	12 Apri	1 2024	Version 3.01			
Section 11. Toxicological information							
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	-			
zineb (ISO)	LD50 Oral	Rat	>2000 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	-			
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	-			
diiron trioxide	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours			
	LD50 Oral	Rat	10 g/kg	-			
Solvent naphtha (petroleum),	LD50 Dermal	Rabbit	3.48 g/kg	-			
light aromatic							
5	LD50 Oral	Rat	8400 mg/kg	-			
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-			
-	LD50 Oral	Rat	4.3 g/kg	-			
1,2,4-trimethylbenzene	LC50 Inhalation Vapor	Rat	18000 mg/m <sup>3</sup>	4 hours			
•	LD50 Oral	Rat	5 g/kg	-			
copper oxide	LD50 Oral	Rat	>2000 mg/kg	-			
Terpineol	LD50 Oral	Rat	4300 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
<b>x</b> ylene	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
Terpineol	Skin - Irritant	Rabbit	-	mg -	-

Conclusion/Summary Skin

: There are no data available on the m	nixture itself.
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: There are no data available on the mixture itself.

Respiratory Sensitization

Eyes

···· · · · · · · · · · · · · · · · · ·	Route of exposure	Species	Result
zineb (ISO)	skin	Guinea pig	Sensitizing
Terpineol	skin	Guinea pig	Sensitizing

: There are no data available on the mixture itself.

#### Conclusion/Summary

- Skin
- Respiratory

zineb (ISO): Weakly positive. There are no data available on the mixture itself.

#### Mutagenicity

Not available.

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## Section 11. Toxicological information

Conclusion/Summary

: There are no data available on the mixture itself.

#### **Carcinogenicity**

Not available.

#### Conclusion/Summary

: There are no data available on the mixture itself.

#### **Classification**

Product/ingredient name	OSHA	IARC	NTP
zíneb (ISO)	-	3	-
4-methylpentan-2-one	-	2B	-
diiron trioxide	-	3	-
xylene	-	3	-
ethylbenzene	-	2B	-

Carcinogen Classification code:

IARC: 1, 2A, 2B, 3, 4 NTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen OSHA: + Not listed/not regulated: -

#### **Reproductive toxicity**

Not available.

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

#### **Teratogenicity**

Not available.

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

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

Name	Category	Route of exposure	Target organs
zineb (ISO)	Category 3	-	Respiratory tract irritation
4-methylpentan-2-one	Category 3	-	Narcotic effects
Solvent naphtha (petroleum), light aromatic	Category 3	-	Narcotic effects
xylene	Category 3	-	Respiratory tract irritation
1,2,4-trimethylbenzene	Category 3	-	Respiratory tract irritation
Talc , not containing asbestiform fibres	Category 3	-	Respiratory tract irritation

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

Name		Route of exposure	Target organs
ethylbenzene	Category 2	-	hearing organs

## Section 11. Toxicological information

#### 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, cardiovascular system, 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
xylene	ASPIRATION HAZARD - Category 1
3-ethyltoluene	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	1	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 physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains

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

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

English (US)	Uruguay	11/15

# Section 11. Toxicological information

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	lf In kr sh	bise can cause greater hearing loss than expected from exposure to noise alone. splashed in the eyes, the liquid may cause irritation and reversible damage. gestion may cause nausea, diarrhea and vomiting. This takes into account, where nown, delayed and immediate effects and also chronic effects of components from nort-term and long-term exposure by oral, inhalation and dermal routes of kposure and eye contact.
<u>Short term exposure</u>		
Potential immediate effects	: Tł	here are no data available on the mixture itself.
Potential delayed effects	: Tł	here are no data available on the mixture itself.
<u>Long term exposure</u>		
Potential immediate effects	: Tł	here are no data available on the mixture itself.
Potential delayed effects	: Tł	here are no data available on the mixture itself.
Potential chronic health eff	<u>cts</u>	
Not available.		
General	or	rolonged or repeated contact can defat the skin and lead to irritation, cracking and/ dermatitis. Once sensitized, a severe allergic reaction may occur when ubsequently 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

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
SIGMA SAILADVANCE GX REDBROWN	1216.2	3269.2	N/A	56.6	3.4
dicopper oxide	500	2500	N/A	N/A	3.34
rosin	7600	2500	N/A	N/A	N/A
zineb (ISO)	2500	N/A	N/A	N/A	N/A
4-methylpentan-2-one	2080	N/A	N/A	11	1.5
zinc oxide	N/A	2500	N/A	N/A	N/A
diiron trioxide	10000	N/A	N/A	N/A	N/A
Solvent naphtha (petroleum), light aromatic	8400	3480	N/A	N/A	N/A
xylene	4300	1700	N/A	11	1.5
1,2,4-trimethylbenzene	5000	N/A	N/A	18	1.5
copper oxide	2500	N/A	N/A	N/A	N/A
Terpineol	4300	N/A	N/A	N/A	N/A
ethylbenzene	3500	17800	N/A	17.8	1.5

#### Other information

: Not available.

English (US)

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# Section 12. Ecological information

#### **Ecotoxicity**

Product/ingredient name	Result	Species	Exposure
dícopper oxide	LC50 0.003 mg/l	Fish	96 hours
4-methylpentan-2-one	Acute LC50 >179 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
diiron trioxide	Acute EC50 >100 mg/l	Daphnia	48 hours
Solvent naphtha (petroleum), light aromatic	Acute LC50 8.2 mg/l	Fish	96 hours
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

Product/ingredient name	Test	Result		Dose		Inoculum
4-methylpentan-2-one ethylbenzene	OECD 301F -		dily - 28 days dily - 10 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodegradability	
methylpentan-2-one xylene ethylbenzene			- - -		Readily Readily Readily	

#### **Bioaccumulative potential**

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

# 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			111	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. <ul> <li>(dicopper oxide)</li> </ul>	Yes. The environmentally hazardous substance mark is not required. Not applicable.

#### Additional information

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.
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not applicable. to IMO instruments

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## 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

#### **History**

Date of previous issue	: 8/30/2023
Version	: 3.01
	EHS
Key to abbreviations	<ul> <li>ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway</li> <li>ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road</li> <li>ATE = Acute Toxicity Estimate</li> <li>BCF = Bioconcentration Factor</li> <li>GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association</li> <li>IMDG = International Maritime Dangerous Goods</li> <li>LogPow = logarithm of the octanol/water partition coefficient</li> <li>MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)</li> <li>RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail</li> </ul>
References	UN = United Nations : 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.