SAFETY DATA SHEET



Date of issue 12 April 2024

Version 3.01

Section 1. Product and company identification

Product name	1	SI
Product code	1	00
Other means of identification	:	00
Product type	:	Li

- SIGMA SAILADVANCE GX REDBROWN 000001118115
- : 00371293
 - 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 CHILE S.A. Puerto Madero 9710, Of. 23 Pudahuel - Chile Teléfono: +56 (2) 2571 0750 Fax: +56 (2) 2571 0752
Email address:	: HazComLatam@ppg.com
Emergency telephone number	: +56 (2) 2777 1994 (RITA CHILE)

Section 2. Hazards identification

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

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Code000001118115Product nameSIGN	IA SAILAI	Date of issue DVANCE GX REDBROWN	12 April 2024	Version	3.01
Section 2. Haz	ards	identification			
		Percentage of the mixture consisti 1.9%	ng of ingredient(s) of u	nknown acute o	ral toxicity
		Percentage of the mixture consisti toxicity: 22.6% Percentage of the mixture consisti	,		
		toxicity: 29.4%	ng et ingreateria(e) et a		lalaton
		Percentage of the mixture consisti aquatic environment: 11.6%	ng of ingredient(s) of u	nknown hazards	to the
<u>GHS label elements</u>					
Hazard pictograms	:				
Signal word	:	Danger			
Hazard statements	:	Flammable liquid and vapor. Harmful if swallowed or if inhaled. May be harmful in contact with ski Causes skin irritation. May cause an allergic skin reactio Causes serious eye damage. Suspected of causing cancer. Very toxic to aquatic life with long	n.		
Precautionary stateme	ents		-		
Prevention	:	Obtain special instructions before and eye or face protection. Keep flames and other ignition sources. ventilating or lighting equipment. I static discharges. Avoid release to eat, drink or smoke when using th	away from heat, hot su No smoking. Use exp Jse non-sparking tools o the environment. Ave	rfaces, sparks, c losion-proof elec . Take action to bid breathing vap	open ctrical, prevent por. Do n
Response	:	Collect spillage. IF exposed or co INHALED: Call a POISON CENTE contaminated clothing and wash it CENTER or doctor if you feel unw rash occurs: Get medical advice o water for several minutes. Remove Continue rinsing. Immediately cal	R or doctor if you feel of before reuse. IF ON S ell. Wash with plenty o r attention. IF IN EYES e contact lenses, if pres	unwell. Take off SKIN: Call a POI f water. If skin i S: Rinse cautious sent and easy to	: SON rritation o sly with
Storage	:	Store in a well-ventilated place. Ke			
Disposal		Dispose of contents and container	•	local, regional, r	national

 Dispose of contents and container in accordance with all local, regional, national and international regulations.

Other hazards which do not : Prolonged or repeated contact may dry skin and cause irritation.

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result in classification Classification according to NCh382: Label according to NCh2190: 18115 Date of issue SIGMA SAILADVANCE GX REDBROWN 12 April 2024

3.01

Section 3. Composition/information on ingredients

Substance/mixture Other means of identification

CAS number

: Mixture : 00371293

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 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 me	dical 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.

Code000001118115Product nameSIGMA	SAILADVANCE GX	Date of issue REDBROWN	12 April 2024	Version	3.01
Section 4. First	aid measu	ures			
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 nly with water before remo	resent, the rescuer sho apparatus. It may be da uth resuscitation. Wasł	uld wear an app angerous to the	ropriate person
Potential acute health effe	ects				
Eye contact	: Causes	serious eye damage.			
Inhalation	: Harmful	if inhaled.			
Skin contact		harmful in contact with ski ıse an allergic skin reactio		n. Defatting to t	the skin.
Ingestion		if swallowed.			

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides 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	 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, protec	tive 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".

English (US) Chile 4/15	
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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	
øxido de dicobre	Ministry of Health (Chile, 2/2018). [Copper fume]
Resina de pino	TWA: 0.18 mg/m ³ 8 hours. Form: Fume ACGIH TLV (United States, 1/2023). [resin acids as total Resin acids] Skin sensitizer. Inhalation sensitizer.
	TWA: 0.001 mg/m³, (as total Resin acids) 8
	hours. Form: Inhalable fraction
Zineb (ISO)	Not regulated.
4-Metilpentan-2-ona	Ministry of Health (Chile, 2/2018).
	STEL: 307 mg/m ³ 15 minutes. STEL: 75 ppm 15 minutes.
	TWA: 179 mg/m ³ 8 hours.
	TWA: 44 ppm 8 hours.
Óxido de cinc	Ministry of Health (Chile, 2/2018).
	STEL: 10 mg/m ³ 15 minutes. Form: Fume
	TWA: 4.4 mg/m ³ 8 hours. Form: Fume
diiron trioxide	ACGIH TLV (United States, 1/2023).
	TWA: 5 mg/m ³ 8 hours. Form: Respirable
	fraction
Nafta disolvente (petróleo), fracción aromática ligera xileno	Not regulated. Ministry of Health (Chile, 2/2018). [Xylene]
Xileno	STEL: 651 mg/m ³ 15 minutes.
	STEL: 150 ppm 15 minutes.
	TWA: $380 \text{ mg/m}^3 8 \text{ hours.}$
	TWA: 87 ppm 8 hours.
1,2,4-Trimetilbenceno	ACGIH TLV (United States, 1/2023).
	TWA: 10 ppm 8 hours.
3-ethyltoluene	Not regulated.
Talc , not containing asbestiform fibres	Ministry of Health (Chile, 2/2018).
	TWA: 1.75 mg/m ³ 8 hours. Form: Respirable fraction
óxido de cobre (II)	Ministry of Health (Chile, 2/2018). [Copper
	fume]
	TWA: 0.18 mg/m ³ 8 hours. Form: Fume
Terpineol	Not regulated.
copper	Ministry of Health (Chile, 2/2018). [Copper
	dusts and mists,as Cu]
	TWA: 0.88 mg/m³, (expressed as Cu) 8 hours. Form: Dusts and Mists
	Ministry of Health (Chile, 2/2018). [Copper
	fume]
	TWA: 0.18 mg/m ³ 8 hours. Form: Fume
Recommended monitoring : Reference should be made to appro	ppriate monitoring standards. Reference to

procedures

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

Chile

Section 8. Exposi	ire 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 control 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 ensur they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measu	res
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye protection	: Chemical splash goggles and face shield.
Skin protection 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 indicate 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 necessary.
Section 9. Physic	

Appearance				
Physical state	: Liquid.			
Color	: Brownish-red.			
Odor	: Aromatic. [Slight]			
рН	: Not applicable.			
Melting point	: Not available.			
Boiling point	: >37.78°C (>100°F)			
		English (US)	Chile	7/15

Section 9. Physical and chemical properties

Flash point	1	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		
		Media Result		
Solubility(ies)	Ċ	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	:	60 - 100 s (ISO 6mm)		

Section 10. Stability and reactivity

Continue 44 Toxin	anial information	
Hazardous decomposition products	: Depending on conditions, decomposition products may include the following mat carbon oxides nitrogen oxides sulfur oxides metal oxide/oxides	terials
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 ingredien	nts.

Section 11. Toxicological information

Information on toxicological effects Acute toxicity 3.01

Code 000001118115 Product name SIGMA SAIL	Date of issue ADVANCE GX REDBROWN	12 Api	il 2024	Version 3.01			
Section 11. Toxicological information							
Product/ingredient name	Result	Species	Dose	Exposure			
dícopper oxide	LC50 Inhalation Dusts and mists LD50 Dermal LD50 Oral	Rat Rat Rat	3.34 mg/l >2000 mg/kg	4 hours -			
rosin	LD50 Oral LD50 Dermal LD50 Oral	Rat Rat	500 mg/kg >2000 mg/kg 7600 mg/kg	-			
zineb (ISO)	LD50 Oral	Rat	>2000 mg/kg	-			
4-methylpentan-2-one	LC50 Inhalation Vapor LD50 Dermal LD50 Oral	Rat Rabbit Rat	11 mg/l >5000 mg/kg 2.08 g/kg	4 hours - -			
zinc oxide	LC50 Inhalation Dusts and mists LD50 Dermal LD50 Oral	Rat Rat Rat	>5700 mg/m ³ >2000 mg/kg >5000 mg/kg	4 hours - -			
diiron trioxide	LC50 Inhalation Dusts and mists LD50 Oral	Rat	>5 mg/l 10 g/kg	4 hours -			
Solvent naphtha (petroleum), light aromatic		Rabbit	3.48 g/kg	-			
xylene	LD50 Oral LD50 Dermal LD50 Oral	Rat Rabbit Rat	8400 mg/kg 1.7 g/kg 4.3 g/kg	-			
1,2,4-trimethylbenzene	LC50 Inhalation Vapor LD50 Oral	Rat	18000 mg/m ³ 5 g/kg	4 hours -			
copper oxide	LD50 Oral	Rat	>2000 mg/kg	-			
Terpineol	LD50 Oral	Rat	4300 mg/kg	-			
copper ethylbenzene	LC50 Inhalation Dusts and mists LC50 Inhalation Vapor LD50 Dermal	Rat Rat Rabbit	>5.11 mg/l 17.8 mg/l 17.8 g/kg	4 hours 4 hours -			

Conclusion/Summary Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
x ylene	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
Terpineol	Skin - Irritant	Rabbit	-	mg -	-

: There are no data available on the mixture itself.

Rat

Conclusion/Summary Skin

- : There are no data available on the mixture itself.
 - : There are no data available on the mixture itself.

LD50 Oral

Respiratory Sensitization

Eyes

Product/ingredient nameRoute of
exposureSpeciesResultzineb (ISO)skinGuinea pigSensitizingTerpineolskinGuinea pigSensitizing

: 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.

3.5 g/kg

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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
zineb (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

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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	:	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 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 2 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

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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.
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Reproductive toxicity	: No known significant effects or critical hazards.
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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)

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	duct/ingredient name Test Resu		Result			Inoculum
4-methylpentan-2-one ethylbenzene	OECD 301F -	83 % - Readily - 28 days 79 % - Readily - 10 days		-		-
Product/ingredient name	Aquatic half-life	Photolysis		Biodeg		gradability
 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			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 ≤5 L or ≤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	 NCh 382 - Hazardous substances - General terminology and classification. NCh 2245 - Material Safety Data Sheet for Chemicals - Contents and section order. D. S. 148 - Sanitary regulations on hazardous waste management. D. S. 298 - Transport of dangerous goods by road. D. S. 374 - Limit for Lead content in paints. D. S. 594 - Regulation on basic sanitary and environmental conditions at workplace.

Section 16. Other information

<u>History</u>	
Date of previous issue	: 8/30/2023
Version	: 3.01 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.