# **SAFETY DATA SHEET**



1/15

Date of issue 12 April 2024

Version 2.01

## Section 1. Product and company identification

Product name	:	SIGMA SAILADVANCE GX BROWN
Product code	1	000001118116
Other means of identification	1	00371294
Product type	:	Liquid.

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

### **Identified uses**

Coating. Paints. Painting-related materials.

Uses advised against	Reason
Not applicable.	

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

# Section 2. Hazards identification

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

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Section 2. Hazards	Section 2. Hazards identification		
	Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 1.9%		
	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 22.5%		
	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30.4%		
	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 11.5%		
GHS label elements			
Hazard pictograms			
Signal word	: Danger		
Hazard statements	<ul> <li>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.</li> </ul>		
Precautionary statements			
Prevention	: Obtain special instructions before use. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Avoid release to the environment. Avoid breathing vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.		
Response	: Collect spillage. IF exposed or concerned: Get medical advice or attention. IF INHALED: Call a POISON CENTER or doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. IF ON SKIN: Call a POISON CENTER or doctor if you feel unwell. Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.		
Storage	: Store in a well-ventilated place. Keep cool.		
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.		
Other hazards which do not result in classification	: Prolonged or repeated contact may dry skin and cause irritation.		

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## Section 3. Composition/information on ingredients

#### Substance/mixture Other means of identification

**CAS number** 

: Mixture : 00371294

### **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
Solvent naphtha (petroleum), light aromatic	3 - <5	64742-95-6
xylene	3 - <5	1330-20-7
diiron trioxide	3 - <5	1309-37-1
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
carbon black	1 - <2	1333-86-4
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	<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 med	lical 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>

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Section 4. First ai	d measures			
Protection of first-aiders	: No action shall be taken involving is suspected that fumes are still p mask or self-contained breathing providing aid to give mouth-to-mo thoroughly with water before remo	resent, the rescuer sho apparatus. It may be da uth resuscitation. Was	uld wear an app angerous to the	ropriate person
Potential acute health effect	<u>s</u>			

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.

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	<ul> <li>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".</li> </ul>			

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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	ontainment 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** 

e limits
LV (United States, 1/2023).
Fume]
.2 mg/m <sup>3</sup> 8 hours. Form: Fume
LV (United States, 1/2023). [resin
total Resin acids] Skin sensitizer.
n sensitizer.
.001 mg/m³, (as total Resin acids) 8 prm: Inhalable fraction
LV (United States, 1/2023).
′5 ppm 15 minutes.
0 ppm 8 hours.
LV (United States, 1/2023).
0 mg/m <sup>3</sup> 15 minutes. Form:
le fraction
mg/m³ 8 hours. Form: Respirable
of Labor and Employment (Brazil,
. [Xylenes (o-, m-, p- isomers)]
40 mg/m <sup>3</sup> 8 hours.
8 ppm 8 hours.
LV (United States, 1/2023).
mg/m <sup>3</sup> 8 hours. Form: Respirable
LV (United States, 1/2023).
0 ppm 8 hours.
LV (United States, 1/2023).
mg/m <sup>3</sup> 8 hours. Form: Respirable
LV (United States, 1/2023).
Fume]
.2 mg/m³ 8 hours. Form: Fume
of Labor and Employment (Brazil,
.5 mg/m³ 8 hours.
LV (United States, 1/2023).
Dusts and mists, as Cu]
mg/m³, (as Cu) 8 hours. Form:
mist
LV (United States, 1/2023).
Fume]
.2 mg/m <sup>3</sup> 8 hours. Form: Fume
of Labor and Employment (Brazil,
40 mg/m³ 8 hours.
8 ppm 8 hours.

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# Section 8. Exposure controls/personal protection

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Appropriate engineering controls Environmental exposure controls	<ul> <li>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.</li> <li>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.</li> </ul>
Individual protection measure	<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	: Chemical splash goggles and face shield.
Skin protection Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should
	be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Gloves	: butyl rubber
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	<ul> <li>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.</li> </ul>
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.

# Section 9. Physical and chemical properties

Appearance	
Physical state	: Liquid.
Color	: Brown.
Odor	: Aromatic. [Slight]
рН	: Not applicable.
Melting point	: Not available.

English (US)

Brazil

## Section 9. Physical and chemical properties

Boiling point	:	>37.78°C (>100°F)		
Flash point	1	Closed cup: 27°C (80.6°F)		
Evaporation rate	:	Not available.		
Flammability (solid, gas)	1	Not available.		
Lower and upper explosive (flammable) limits	:	Not available.		
Vapor pressure	:	Not available.		
Vapor density	:	Not available.		
Relative density	1	1.74		
<b>•</b> • • • • • • • •		Media	Result	
Solubility(ies)	•	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)		

# Section 10. Stability and reactivity

: No specific test data related to reactivity available for this product or its ingredients.
: The product is stable.
: Under normal conditions of storage and use, hazardous reactions will not occur.
: When exposed to high temperatures may produce hazardous decomposition products.
: Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
: 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

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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 500 mg/kg	4 hours -	
rosin	LD50 Oral LD50 Dermal LD50 Oral	Rat	>2000 mg/kg 7600 mg/kg	-	
zineb (ISO) 4-methylpentan-2-one	LD50 Oral LC50 Inhalation Vapor	Rat Rat	>2000 mg/kg 11 mg/l	- 4 hours	
	LD50 Dermal LD50 Oral	Rabbit Rat	>5000 mg/kg 2.08 g/kg	- -	
zinc oxide	LC50 Inhalation Dusts and mists LD50 Dermal LD50 Oral	Rat Rat Rat	>5700 mg/m <sup>3</sup> >2000 mg/kg >5000 mg/kg	4 hours - -	
Solvent naphtha (petroleum), light aromatic	LD50 Dermal	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	-	
diiron trioxide	LC50 Inhalation Dusts and mists LD50 Oral	Rat Rat	>5 mg/l 10 g/kg	4 hours -	
1,2,4-trimethylbenzene	LC50 Inhalation Vapor LD50 Oral	Rat	18000 mg/m <sup>3</sup> 5 g/kg	4 hours -	
copper oxide carbon black	LD50 Oral	Rat	>2000 mg/kg	-	
Terpineol	LD50 Oral LD50 Oral	Rat	>10 g/kg 4300 mg/kg	-	
copper ethylbenzene	LC50 Inhalation Dusts and mists LC50 Inhalation Vapor	Rat Rat	>5.11 mg/l 17.8 mg/l	4 hours 4 hours	

**Conclusion/Summary** 

: There are no data available on the mixture itself.

Rabbit

Rat

17.8 g/kg

3.5 g/kg

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LD50 Dermal

LD50 Oral

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
vlene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Terpineol	Skin - Irritant	Rabbit	-	-	-
Conclusion/Summary	·	·			
Skin	: There are no data available on the mixture itself.				
Eyes	: There are no data available on the mixture itself.				
Respiratory	: There are no data available on the mixture itself.				

Sensitization

Product/ingredient name	Route of exposure	Species	Result	
zineb (ISO) Terpineol	skin skin	Guinea pig Guinea pig	Sensitizing Sensitizing	
Conclusion/Summary				

Skin

: zineb (ISO): Weakly positive.

Respiratory

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

## Section 11. Toxicological information

Not available.

### **Conclusion/Summary** : There are no

: 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	-
xylene	-	3	-
diiron trioxide	-	3	-
carbon black	-	2B	-
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	: 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.
	ical, 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 effect	s and also chronic effects from short and long term exposure

**Conclusion/Summary** : There are no data available on the mixture itself. Carbon black is utilized as a raw material in many liquid coating formulations. In this case, the carbon black particles are bound in a matrix with no meaningful potential for human exposure to unbound particles of carbon black when the product is applied with a brush or roller. Sanding the coating surface or mist from spray applications may be harmful depending on the duration and level of exposure and require the use of appropriate personal protective equipment and/or engineering controls (see Section 8). Most carbon blacks contain trace quantities of polyaromatic hydrocarbons (PAH). PAHs are not

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Section 11. Toxic	ological information			
	expected to be released in biologic biological activity. Exposure to co of the stated occupational exposur as mucous membrane and respira kidneys, liver and central nervous dizziness, fatigue, muscular weak consciousness. Solvents may cau through the skin. There is some e vapors in combination with consta expected from exposure to noise a cause irritation and reversible dam vomiting. This takes into account, and also chronic effects of compo- oral, inhalation and dermal routes	imponent solvent vapor re limit may result in adv itory system irritation an system. Symptoms and ness, drowsiness and, ir use some of the above evidence that repeated e nt loud noise can cause alone. If splashed in the nage. Ingestion may cau where known, delayed nents from short-term a	concentrations verse health effe d adverse effect d signs include h n extreme cases effects by absor- exposure to orga greater hearing e eyes, the liquid use nausea, dia and immediate nd long-term ex	in excess ects such ts on the neadache, s, loss of ption anic solvent g loss than d may urrhea and effects
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.		
<u>Long term exposure</u>				
Potential immediate effects	: There are no data available on the	mixture itself.		
Potential delayed effects	: There are no data available on the	mixture itself.		
Potential chronic health eff	ects			
Not available.				
General	: Prolonged or repeated contact car	n defat the skin and lead	I to irritation, cra	acking and/

	or dermatitis. Once sensitized, a severe allergic reaction may occur when
	subsequently exposed to very low levels.
Carcinogenicity	: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity :	No known significant effects or critical hazards.

Reproductive toxicity	: No known significant effects or critical hazards.
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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 BROWN	1221.2	3272.7	N/A	54.9	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
Solvent naphtha (petroleum), light aromatic	8400	3480	N/A	N/A	N/A
xylene	4300	1700	N/A	11	1.5
diiron trioxide	10000	N/A	N/A	N/A	N/A
1,2,4-trimethylbenzene	5000	N/A	N/A	18	1.5
copper oxide	2500	N/A	N/A	N/A	N/A
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Terpineol ethylbenzene	4300 3500	N/A 17800	N/A N/A	N/A 17.8	N/A 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
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 - Daphnia magna -	48 hours
		Neonate	
	Chronic NOEC 0.017 mg/l Fresh water	Algae	72 hours
Solvent naphtha (petroleum),	Acute LC50 8.2 mg/l	Fish	96 hours
light aromatic			
diiron trioxide	Acute EC50 >100 mg/l	Daphnia	48 hours
copper	Acute LC50 810 ppb	Fish	96 hours
	Chronic EC10 8.1 µg/l	Daphnia - <i>Daphnia magna</i> -	21 days
		Neonate	
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/I 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		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
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.

English (US)

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### Section 12. Ecological information

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

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

#### Additional information

Additional inform	
Brazil	: None identified.
<b>Risk number</b>	: 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 precaution	<b>ons for user</b> : <b>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 according	:	Not applicable.
to IMO instruments		

English (US)

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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

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Date of previous issue Version Prepared by	:	9/25/2023 2.01 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.