SAFETY DATA SHEET

Date of issue/Date of revision 12 April 2024

Version3.01

Section 1. Identification

Product code	: 000001118116
Product name	SIGMA SAILADVANCE GX BROWN
CAS number	Not applicable.
EC number	Mixture.
Other means of identification 00371294	
Product type	Liquid.
Relevant identified uses of th	substance or mixture and uses advised against
Product use	Antifouling products Professional applications, Used by spraying.
Uses advised against	Product is not intended, labelled or packaged for consumer use.
Supplier's details	PPG Yung Chi Coatings Co. Ltd Lot 219, Amata Street, Long Binh IZ Bien Hoa City, Dong Nai Province Vietnam Tel : +84 61 3936121/22
Emergency telephone number (with hours of operation)	CHEMTREC +(84)-444581938 (CCN 17704)

Section 2. Hazards identification

Classification of the : FLAMMABLE LIQUIDS - Category 3	
substance or mixtureACUTE 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 TOXICITY (ACUTE) - Category 1 AQUATIC TOXICITY (CHRONIC) - Category 1 Percentage of the mixture consisting of ingredient(s) of unknown acute oral tox 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 inhalat toxicity: 30.4% Fercentage of the mixture consisting of ingredient(s) of unknown hazards to th aquatic environment: 11.5%	Classification of the substance or mixture

GHS label elements

Section 2. Hazards identification

Hazard pictograms		
Signal word	: Danger	
Hazard statements	Flammable liquid and vapor. Harmful if swallowed or if inhaled. May be harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Suspected of causing cancer. Very toxic to aquatic life with long lasting effects.	
Precautionary statements		
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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 only outdoors or in a well-ventilated area. Avoid release to the environment. Avoid breathing vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.	
Response	: Collect spillage. IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. 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 locked up.	
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.	
Routes of entry	: Not available.	
Other hazards which do not result in classification	: Prolonged or repeated contact may dry skin and cause irritation.	

Section 3. Composition/information on ingredients

Substance/mixture		Mixture
CAS number/other identifiers		
CAS number	÷	Not applicable.
EC number	1	Mixture.

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Section 3. Composition/information on ingredients

Ingradiant name	CAS number	Chemical formula	%
Ingredient name	CAS number	Chemical formula	70
dícopper oxide	1317-39-1	Cu2-O	≥25 - ≤50
rosin	8050-09-7	C20H28 32O2	≥10 - ≤16
zineb (ISO)	12122-67-7	C4-H6-N2-S4.Zn	≤10
4-methylpentan-2-one	108-10-1	C6-H12-O	≤10
zinc oxide	1314-13-2	O-Zn	≤9.3
Solvent naphtha (petroleum), light aromatic	64742-95-6	C36H48	≤5
xylene	1330-20-7	C8-H10	≤3.8
1,2,4-trimethylbenzene	95-63-6	C9-H12	≤2.9
3-ethyltoluene	620-14-4	C9-H12	≤3
Talc, not containing asbestiform fibres	14807-96-6	3Mg-0.4Si-02.	≤2.1
		H2-O	
copper oxide	1317-38-0	Cu-O	≤3
Terpineol	8000-41-7	C10-H18-O	≤3

There are no 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.

SUB codes represent substances without registered CAS Numbers.

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

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.

Most important symp	toms/effects, acute and delayed
Potential acute heal	th 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.
<u>Over-exposure sign</u>	<u>s/symptoms</u>
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: No specific data.

Section 4. First aid measures

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
Indication of immediate me	dica	l attention and special treatment needed, if necessary
Notes to physician	:	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.
Specific treatments	:	No specific treatment.
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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.

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Section 6. Accidental release measures

Personal precautions, protective equipment and emergency proceduresFor 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".

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 containment 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

Protective measures ŝ, 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.

Section 7. Handling and storage

Advice on general occupational hygiene	:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:	Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

#copper oxide Ministry of Health (Viet Nam, 6/2019). [copper and compounds (dust)] TWA: 0.5 mg/m³ 8 hours. Form: Dust Ministry of Health (Viet Nam, 6/2019). [copper compounds] STEL: 1 mg/m³ 15 minutes. TWA: 0.1 mg/m³ 8 hours. Ministry of Health (Viet Nam, 6/2019). [copper compounds] STEL: 1 mg/m³ 15 minutes. TWA: 0.1 mg/m³ 8 hours. Ministry of Health (Viet Nam, 6/2019). [copper and compounds (fume)] TWA: 0.1 mg/m³ 8 hours. Form: vapour, fume ACGIH TLV (United States, 1/2023). [resin acids as total Resin acids] 8 kin sensitizer. rosin acids as total Resin acids] Skin sensitizer. thalation sensitizer. TWA: 0.001 mg/m³ (a total Resin acids) 8 hours. Form: Inhalable fraction 4-methylpentan-2-one ACGIH TLV (United States, 1/2023). zinc oxide Ministry of Health (Viet Nam, 6/2019). zinc oxide Ministry of Health (Viet Nam, 6/2019). xylene Xiet a mg/m³ 8 hours. Form: costal ad fumes xylene Ministry of Health (Viet Nam, 6/2019). xylene Ministry of Health (Viet Nam, 6/2019). </th <th>Ingredient name</th> <th>Exposure limits</th>	Ingredient name	Exposure limits
rosinACGIH TLV (United States, 1/2023). [resin acids as total Resin acids] Skin sensitizer. TWA: 0.001 mg/m³, (as total Resin acids) 8 hours. Form: Inhalable fraction4-methylpentan-2-oneACGIH TLV (United States, 1/2023). STEL: 75 ppm 15 minutes. TWA: 20 ppm 8 hours.zinc oxideMinistry of Health (Viet Nam, 6/2019). TWA: 5 mg/m³ 8 hours. Form: Dust and fumes TWA: 2 mg/m³ 8 hours. Form: respirable dust TWA: 4 mg/m³ 8 hours. Form: total dust concentrationxyleneMinistry of Health (Viet Nam, 6/2019). TWA: 4 mg/m³ 8 hours. Form: total dust concentration1,2,4-trimethylbenzeneACGIH TLV (United States, 1/2023). TWA: 10 ppm 8 hours.	dicopper oxide	[copper and compounds (dust)] TWA: 0.5 mg/m ³ 8 hours. Form: Dust Ministry of Health (Viet Nam, 6/2019). [copper compounds] STEL: 1 mg/m ³ 15 minutes. TWA: 0.5 mg/m ³ 8 hours. Ministry of Health (Viet Nam, 6/2019). [copper and compounds (fume)] TWA: 0.1 mg/m ³ 8 hours. Form: vapour,
4-methylpentan-2-oneACGIH TLV (United States, 1/2023). STEL: 75 ppm 15 minutes. TWA: 20 ppm 8 hours.zinc oxideMinistry of Health (Viet Nam, 6/2019). TWA: 5 mg/m³ 8 hours. Form: Dust and fumes TWA: 2 mg/m³ 8 hours. Form: respirable dust TWA: 2 mg/m³ 8 hours. Form: respirable dust TWA: 4 mg/m³ 8 hours. Form: total dust concentrationxyleneMinistry of Health (Viet Nam, 6/2019). Itwas a hours. Form: total dust concentration1,2,4-trimethylbenzeneSTEL: 300 mg/m³ 15 minutes. TWA: 100 mg/m³ 8 hours.1,2,4-trimethylbenzeneACGIH TLV (United States, 1/2023). TWA: 10 ppm 8 hours.	rosin	ACGIH TLV (United States, 1/2023). [resin acids as total Resin acids] Skin sensitizer. Inhalation sensitizer. TWA: 0.001 mg/m ³ , (as total Resin acids) 8
zinc oxide Ministry of Health (Viet Nam, 6/2019). TWA: 5 mg/m³ 8 hours. Form: Dust and fumes TWA: 2 mg/m³ 8 hours. Form: respirable dust TWA: 4 mg/m³ 8 hours. Form: total dust concentration xylene Ministry of Health (Viet Nam, 6/2019). [xylene] STEL: 300 mg/m³ 15 minutes. TWA: 100 mg/m³ 8 hours. ACGIH TLV (United States, 1/2023). TWA: 10 ppm 8 hours.	4-methylpentan-2-one	ACGIH TLV (United States, 1/2023). STEL: 75 ppm 15 minutes.
[xylene]STEL: 300 mg/m³ 15 minutes.TWA: 100 mg/m³ 8 hours.1,2,4-trimethylbenzeneACGIH TLV (United States, 1/2023).TWA: 10 ppm 8 hours.	zinc oxide	Ministry of Health (Viet Nam, 6/2019). TWA: 5 mg/m ³ 8 hours. Form: Dust and fumes TWA: 2 mg/m ³ 8 hours. Form: respirable dust TWA: 4 mg/m ³ 8 hours. Form: total dust
1,2,4-trimethylbenzeneACGIH TLV (United States, 1/2023). TWA: 10 ppm 8 hours.	xylene	[xylene] STEL: 300 mg/m ³ 15 minutes.
Talc , not containing asbestiform fibres Ministry of Health (Viet Nam, 6/2019).		ACGIH TLV (United States, 1/2023). TWA: 10 ppm 8 hours.
	Talc , not containing asbestiform fibres	Ministry of Health (Viet Nam, 6/2019).

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Section 8. Exposure controls/personal protection TWA: 3 mg/m³ 8 hours. Form: inhalable dust TWA: 1 mg/m³ 8 hours. Form: respirable dust TWA: 2 mg/m³ 8 hours. Form: total dust concentration copper oxide Ministry of Health (Viet Nam, 6/2019). [copper and compounds (dust)] TWA: 0.5 mg/m³ 8 hours. Form: Dust Ministry of Health (Viet Nam, 6/2019). [copper compounds] STEL: 1 mg/m³ 15 minutes. TWA: 0.5 mg/m³ 8 hours. Ministry of Health (Viet Nam, 6/2019). [copper and compounds (fume)] TWA: 0.1 mg/m³ 8 hours. Form: vapour, fume **Recommended monitoring** : Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous procedures substances will also be required. : Use only with adequate ventilation. Use process enclosures, local exhaust Appropriate engineering controls 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. : Emissions from ventilation or work process equipment should be checked to ensure **Environmental exposure** controls 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 measures **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/face 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

Section 8. Exposure controls/personal protection

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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.

Section 9. Physical and chemical properties

<u>Appearance</u>		
Physical state	1	Liquid.
Color	1	Brown.
Odor	1	Aromatic. [Slight]
Odor threshold	1	Not available.
рН	4	Not applicable.
Melting point	4	Not available.
Boiling point	4	>37.78°C (>100°F)
Flash point	4	Closed cup: 27°C (80.6°F)
Evaporation rate	4	Not available.
Flammability (solid, gas)	4	Not available.
Lower and upper explosive (flammable) limits	:	Greatest known range: Lower: 1.4% Upper: 7.6% (Solvent naphtha (petroleum), light aromatic)
Vapor pressure	1	Not available.
Vapor density	1	Not available.
Relative density	4	1.74
Solubility(ies)		Media Result
		cold water Not soluble
Partition coefficient: n- octanol/water	:	Not applicable.
Auto-ignition temperature	1	Not available.
Decomposition temperature	1	Not available.
Viscosity	:	Kinematic (40°C): >21 mm²/s
Viscosity	:	> 100 s (ISO 6mm)

Section 10. Stability and reactivity

produoto		materials: carbon oxides nitrogen oxides sulfur oxides metal oxide/oxides
Hazardous decomposition products		Depending on conditions, decomposition products may include the following
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

Product/ingredient name	Result	Species	Dose	Exposure
dícopper oxide	LC50 Inhalation Dusts and mists	Rat	3.34 mg/l	4 hours
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	500 mg/kg	-
rosin	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	7600 mg/kg	-
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 ³	4 hours
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Solvent naphtha (petroleum), light aromatic	LD50 Dermal	Rabbit	3.48 g/kg	-
ight dromato	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 ³	4 hours
	LD50 Oral	Rat	5 g/kg	-
copper oxide	LD50 Oral	Rat	>2000 mg/kg	-
Terpineol	LD50 Oral	Rat	4300 mg/kg	-

Conclusion/Summary

: There are no data available on the mixture itself.

Irri	tat	ion/	Co	rros	ion	

Product/ingredient name	Result	Species	Score	Exposure	Observation
x ylene	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
Terpineol	Skin - Irritant	Rabbit	_	mg -	_
Conclusion/Summary		1 tabbit			

Conclusion/Summary

Skin

: There are no data available on the mixture itself.

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Section 11. Toxicological information

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

Sensitization

Respiratory

Eyes

Product/ingredient name	Route of exposure	Species	Result		
zineb (ISO) Terpineol	skin skin	Guinea pig Guinea pig	Sensitizing Sensitizing		
Skin Respiratory		 There are no data available on the mixture itself. There are no data available on the mixture itself. 			
Mutagenicity Conclusion/Summary Carcinogenicity	: There are no d	ata available on the mixture itse	elf.		
Conclusion/Summary	: There are no data available on the mixture itself.				
Reproductive toxicity Conclusion/Summary	: There are no data available on the mixture itself.				
<u>Teratogenicity</u> Conclusion/Summary	: There are no d	ata available on the mixture itse	lf.		

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)

Not available.

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

Information on the likely routes of exposure	:	Not available.
Potential acute health effects		
Eye contact	:	Causes serious eye damage.
Inhalation	:	Harmful if inhaled.
Eye contact		, ,

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Section 11. Toxicological information

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 ph	ysical, 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 effe	cts and also chronic effects from short and long term exposure
<u>Short 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.
Long term exposure	
Potential immediate effects	: There are no data available on the mixture itself.
Potential delayed effects	: There are no data available on the mixture itself.
Potential chronic health eff	iects
General	: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and

General	 Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/ or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.

Reproductive toxicity : No known significant effects or critical hazards.

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Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	1221.23 mg/kg
Dermal	3272.65 mg/kg
Inhalation (vapors)	54.94 mg/l
Inhalation (dusts and mists)	3.37 mg/l

Other information

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Section 11. Toxicological information

Prolonged or repeated contact may dry skin and cause irritation. Sanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing.

Section 12. Ecological information

Toxicity

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 - <i>Daphnia magna</i> - Neonate	48 hours
	Chronic NOEC 0.017 mg/l Fresh water	Algae	72 hours
Solvent naphtha (petroleum), light aromatic	Acute LC50 8.2 mg/l	Fish	96 hours

Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
4-methylpentan-2-one	OECD 301F	83 % - Readily - 28 days		-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
✓-methylpentan-2-one xylene	-		-		Readily Readily	

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
F osin	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

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 non-recyclable 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	IMDG	IATA
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class(es)	3	3	3
Packing group			III
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 inf	ormation
UN	: None identified.
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 preca	utions 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 I	oulk according : Not applicable.

to IMO instruments

Section 15. Regulatory information

Safety, health and environmental regulations specific for the product

: No known specific national and/or regional regulations applicable to this product (including its ingredients).

Circular no. 05/1999/TT-BYT

Ingredient name	Category	Notes
p enzene	Category 1	
toluene	Category 2	
xylene	Category 2	
Cadmium (Non-pyrophoric)	Category 2	
lead monoxide	Category 2	
vinyl chloride	Category 2	

Toxic classification (TCVN : 3

3164-79)

International regulations

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Section 16. Other information

History

Date of issue/Date of revision	: 12 April 2024
Date of previous issue	: 9/25/2023
Version	: 3.01
Prepared by	: EHS
Key to abbreviations	 ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = 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) UN = United Nations
References	: Not available.

✓ Indicates information that has changed from previously issued version.

Notice to reader

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.