# **SAFETY DATA SHEET**



Date of issue

6 March 2024

Version 5

## Section 1. Product and company identification

Product name
Product code
Other means of identification
Product type

: SIGMARINE 48 GREEN 4171

- : 000001161543
- : 00250779
- : 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	: FLAMMABLE LIQUIDS - Category 3
substance or mixture	SKIN IRRITATION - Category 3
	SERIOUS EYE DAMAGE - Category 1
	RESPIRATORY SENSITIZATION - Category 1
	SKIN SENSITIZATION - Category 1
	CARCINOGENICITY - Category 1B
	TOXIC TO REPRODUCTION - Category 1B
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -
	Category 3
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 AQUATIC HAZARD (ACUTE) - Category 3
	AQUATIC HAZARD (LONG-TERM) - Category 2
Target organs	: Contains material which causes damage to the following organs: brain. Contains material which may cause damage to the following organs: kidneys, lungs, liver, gastrointestinal tract, cardiovascular system, upper respiratory tract, skin, eyes, central nervous system (CNS).

English (US)	Brazil	1/14

## Section 2. Hazards identification

Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 43.7%

GHS label elements Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	<ul> <li>Fammable liquid and vapor.</li> <li>Causes mild skin irritation.</li> <li>May cause an allergic skin reaction.</li> <li>Causes serious eye damage.</li> <li>May cause allergy or asthma symptoms or breathing difficulties if inhaled.</li> <li>May cause drowsiness or dizziness.</li> <li>May cause cancer.</li> <li>May damage fertility or the unborn child.</li> <li>Causes damage to organs through prolonged or repeated exposure. (central nervous system (CNS))</li> <li>Harmful to aquatic life.</li> <li>Toxic to aquatic life with long lasting effects.</li> </ul>
Precautionary statements		
Prevention	:	Detain special instructions before use. Wear protective gloves, protective clothing and eye or face protection. Wear respiratory 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. Do not breathe vapor. Do not eat, drink or smoke when using this product.
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 experiencing respiratory symptoms: Call a POISON CENTER or doctor. Take off contaminated clothing and wash it before reuse. IF ON SKIN: 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 container tightly closed. 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.

### Section 3. Composition/information on ingredients

#### Substance/mixture Other means of identification

: Mixture : 00250779

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

**CAS number** 

: Not applicable.

Ingredient name	%	CAS number
Maphtha (petroleum), hydrodesulfurized heavy	30 - <60	64742-82-1
titanium dioxide	15 - <20	13463-67-7
phthalic anhydride	3 - <5	85-44-9
pentaerythritol	3 - <5	115-77-5
Talc , not containing asbestiform fibres	2 - <3	14807-96-6
nonane	1 - <2	111-84-2
2-ethylhexanoic acid, zirconium salt	0.5 - <1	22464-99-9
2-butanone oxime	0.2 - <0.5	96-29-7
cobalt bis(2-ethylhexanoate)	0.2 - <0.5	136-52-7

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**

		English (US) Brazil 3/14
Inhalation	1	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause allergy or asthma symptoms or breathing difficulties if inhaled
Eye contact		Causes serious eye damage.
Potential acute health effect		
Protection of first-aiders		No specific treatment. 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.
Notes to physician Specific treatments		Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Indication of immediate med	lica	l attention and special treatment needed, if necessary
Ingestion	-	If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.
Skin contact	1	Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
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.
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.

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Product nan	ne	SIGMARINE 48 GREEN 4171				

## Section 4. First aid measures

Skin contact

Ingestion

- : Zauses mild skin irritation. Defatting to the skin. May cause an allergic skin reaction.
  - : Can cause central nervous system (CNS) depression.

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 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	<ul> <li>Decomposition products may include the following materials: carbon oxides halogenated compounds metal oxide/oxides</li> </ul>
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, protect	ive equipment and emergency procedures
personnel	<ul> <li>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.</li> </ul>
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

Product name	SIGMARINE 48 GREEN 4171
Section 6	. Accidental release measures
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.

Large spill

appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. : 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 noncombustible, 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.

Alternatively, or if water-insoluble, absorb with an inert dry material and place in an

## 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 or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. 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.
	Materials such as cleaning rags, paper wipes and protective clothing, which are contaminated with the product may spontaneously self-ignite some hours later. To avoid the risks of fires, all contaminated materials should be stored in purpose-built containers or in metal containers with tight-fitting, self-closing lids. Contaminated materials should be removed from the workplace at the end of each working day and be stored outside.
Conditions for safe storage, : including any incompatibilities	Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

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# Section 8. Exposure controls/personal protection

#### **Control parameters**

#### **Occupational exposure limits**

Ingredient name	Exposure limits		
Manium dioxide	ACGIH TLV (United States, 1/2023). TWA: 2.5 mg/m <sup>3</sup> 8 hours. Form: respirable		
phthalic anhydride	fraction, finescale particles ACGIH TLV (United States, 1/2023). Absorbed through skin. Skin sensitizer. Inhalation sensitizer.		
	TWA: 0.002 mg/m <sup>3</sup> 8 hours. Form: Inhalable fraction and vapor STEL: 0.005 mg/m <sup>3</sup> 15 minutes. Form: Inhalable fraction and vapor		
pentaerythritol	ACGIH TLV (United States, 1/2023). TWA: 10 mg/m <sup>3</sup> 8 hours.		
Talc , not containing asbestiform fibres	<b>ACGIH TLV (United States, 1/2023).</b> TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable		
nonane	ACGIH TLV (United States, 1/2023). TWA: 200 ppm 8 hours. TWA: 1050 mg/m <sup>3</sup> 8 hours.		
2-ethylhexanoic acid, zirconium salt	ACGIH TLV (United States, 1/2023). [Zirconium and compounds as Zr] STEL: 10 mg/m <sup>3</sup> , (as Zr) 15 minutes. TWA: 5 mg/m <sup>3</sup> , (as Zr) 8 hours.		
cobalt bis(2-ethylhexanoate)	ACGIH TLV (United States, 1/2023). [cobalt and inorganic compounds as Co] Skin sensitizer. Inhalation sensitizer. TWA: 0.02 mg/m <sup>3</sup> , (as Co) 8 hours.		
	made to appropriate monitoring standards. Reference to cuments for methods for the determination of hazardous be required.		
controls ventilation or other er contaminants below a also need to keep ga	ate ventilation. Use process enclosures, local exhaust ngineering controls to keep worker exposure to airborne any recommended or statutory limits. The engineering controls s, vapor or dust concentrations below any lower explosive n-proof ventilation equipment.		
Environmental exposure controls : Emissions from venti they comply with the cases, fume scrubbe	: 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.		
ndividual protection measures			
before eating, smokin Appropriate techniqu Contaminated work of contaminated clothing	ns and face thoroughly after handling chemical products, ng and using the lavatory and at the end of the working period. es should be used to remove potentially contaminated clothing clothing should not be allowed out of the workplace. Wash g before reusing. Ensure that eyewash stations and safety the workstation location.		
Eye protection : Chemical splash gog			

## Section 8. Exposure controls/personal protection

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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	: <b>b</b> utyl 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	: Use an air-fed respirator unless a site-specific assessment determines that an air- fed respirator is not necessary, in which case the results of the risk assessment should be utilized to determine whether respiratory protection is necessary and wha type of protection is appropriate. 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.

## Section 9. Physical and chemical properties

Appearance					
Physical state		Liquid.			
Color	4	Green.			
Odor	4	Aromatic. [Slight]			
рН	4	Not applicable.			
Melting point	1	Not available.			
Boiling point	1	>37.78°C (>100°F)			
Flash point	:	Closed cup: 44°C (111.2°I	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	1.12			
Solubility(ies)		Media	Result		
Solubility(les)	ľ	cold water	Not soluble		
Partition coefficient: n- octanol/water	:	Not applicable.			
Auto-ignition temperature	:	Not available.			
Decomposition temperature	:	Not available.			
			English (US)	Brazil	7/14

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Section 9. Physic	al and chemical prope	erties	
Viscosity	: Kinematic (40°C (104°F)): >21	mm²/s (>21 cSt)	
Viscosity	: > 100 s (ISO 6mm)		
Section 10. Stabi	lity and reactivity		
Reactivity	: No specific test data related to	reactivity available for this	product or its ingredients.
Chemical stability	: The product is stable.		
Possibility of hazardous reactions	: Under normal conditions of stor	age and use, hazardous r	eactions will not occur.
Conditions to avoid	: When exposed to high tempera products.	tures may produce hazaro	dous decomposition
Incompatible materials	: Keep away from the following moxidizing agents, strong alkalis,		exothermic reactions:
Hazardous decomposition products	: Depending on conditions, decord carbon oxides halogenated cord		5

## Section 11. Toxicological information

#### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Naphtha (petroleum), hydrodesulfurized heavy	LD50 Oral	Rat	>5000 mg/kg	-
titanium dioxide	LC50 Inhalation Dusts and mists	Rat	>6.82 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
phthalic anhydride	LD50 Oral	Rat	1530 mg/kg	-
pentaerythritol	LD50 Oral	Rat	18500 mg/kg	-
nonane	LC50 Inhalation Gas.	Rat	3200 ppm	4 hours
	LC50 Inhalation Vapor	Rat	16790 mg/m <sup>3</sup>	4 hours
2-ethylhexanoic acid, zirconium salt	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	>5 g/kg	-
2-butanone oxime	LD50 Dermal	Rabbit	1100 mg/kg	-
	LD50 Oral	Rat	100 mg/kg	-
cobalt bis(2-ethylhexanoate)	LD50 Dermal	Rabbit	>5 g/kg	-
· · · · · · ·	LD50 Oral	Rat	3129 mg/kg	-

## Section 11. Toxicological information

Not available.

Conclusion/Summary				
Skin	1	There are	e no data a	available on the mixture itself.
Respiratory	1	There are	e no data a	available on the mixture itself.
<u>Mutagenicity</u>				
Not available.				
Conclusion/Summary	:	There are	e no data a	available on the mixture itself.
Carcinogenicity				
Not available.				
Conclusion/Summary	:	There are	e no data a	available on the mixture itself.
Classification				
Product/ingredient name		OSHA	IARC	NTP

Product/ingredient name	OSHA	IARC	NTP
Iffanium dioxide	-	2B	-
cobalt bis(2-ethylhexanoate)	-	2B	Reasonably anticipated to be a human carcinogen.

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
Maphtha (petroleum), hydrodesulfurized heavy	Category 3	-	Narcotic effects
phthalic anhydride	Category 3	-	Respiratory tract irritation
Talc , not containing asbestiform fibres	Category 3	-	Respiratory tract irritation
nonane	Category 3	-	Narcotic effects
2-butanone oxime	Category 1	-	upper respiratory tract
	Category 3		Narcotic effects

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

Name	Category	Route of exposure	Target organs
Aphtha (petroleum), hydrodesulfurized heavy	Category 1	-	central nervous system (CNS)
2-butanone oxime	Category 2	-	blood system
	Englis	h (US) Brazil	9/14

## Section 11. Toxicological information

#### **Target organs**

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

#### **Aspiration hazard**

Name	Result
	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Date of issue

Information on the likely routes of exposure	:	Not available.
Potential acute health effects		
Eye contact	:	🗭 auses serious eye damage.
Inhalation	:	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin contact	:	Zauses mild skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	÷	Can cause central nervous system (CNS) depression.
Symptoms related to the phy	sic	cal, chemical and toxicological characteristics
Eye contact	:	Adverse symptoms may include the following: pain watering redness
Inhalation	:	Adverse symptoms may include the following: wheezing and breathing difficulties asthma nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	:	Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations

English (US)

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## Section 11. Toxicological information

increase in fetal deaths skeletal malformations	Ingestion	
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#### 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. For many products, TiO2 is utilized as a raw material in a liquid coating formulation. In this case, the TiO2 particles are bound in a matrix with no meaningful potential for human exposure to unbound particles of TiO2 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). Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.
<u>Short term exposure</u>	

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	: Causes damage to organs through prolonged or repeated exposure. 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	: May cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: May damage fertility or the unborn child.

#### Numerical measures of toxicity

Acute toxicity estimates

## Section 11. Toxicological information

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
GMARINE 48 GREEN 4171	20603.2	N/A	65578.7	344.1	N/A
phthalic anhydride	1530	N/A	N/A	N/A	N/A
pentaerythritol	18500	N/A	N/A	N/A	N/A
nonane	N/A	N/A	3200	16.79	N/A
2-butanone oxime	100	1100	N/A	N/A	N/A
cobalt bis(2-ethylhexanoate)	3129	N/A	N/A	N/A	N/A

#### Other information

: Not available.

## Section 12. Ecological information

#### **Ecotoxicity**

Product/ingredient name	Result	Species	Exposure
	Acute LC50 >100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 >100 mg/l	Fish	96 hours

#### Persistence/degradability

Not available.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
phthalic anhydride	1.6	-	Low
pentaerythritol	-1.7	1.26	Low
nonane	5.65	-	High
2-butanone oxime	0.63	5.01	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

### Section 13. Disposal considerations

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	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.	(Naphtha (petroleum), hydrodesulfurized heavy)	Not applicable.

#### **Additional information**

Brazil : None identified. Risk number : 30				
RISK Humber	ber : 30			
IMDG	: The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.			
ΙΑΤΑ				
Special precaution	<b>ns 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 to IMO instrument	according : Not applicable. ts			
Section 15.	Regulatory information			
Safety, health and environmental reg specific for the pr	gulations (including its ingredients).			

English (US)

Brazil

Date of issue

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## Section 16. Other information

#### **History**

Data of provious issue		3/5/2024
Date of previous issue		5/5/2024
Version	1	5
Prepared by	1	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.

Brazil