SAFETY DATA SHEET



Date of issue 7 June 2020

Version 3.01

Section 1. Product and company identification

Product name
Product code
Other means of identification
Product type

- : SIGMARINE 2492 VERMELHO SEG 5R 4/14
- : 24920007L.20
- : Not available.
 - : Liquid.

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

Identified uses

Coating. Paints. Painting-related materials.

Uses advised against	Reason
Not applicable.	

Supplier's details:	
Supplier	 PPG Industrial do Brasil – Tintas e Vernizes Ltda Via Anhanguera KM 106, Bairro Sao Judas Tadeu Sumare / SP, Brasil 55 19 2103-6000 (Recepção e Portaria)
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 (dermal) - Category 5 SKIN IRRITATION - Category 3
	EYE IRRITATION - Category 2A
	CARCINOGENICITY - Category 2
	TOXIC TO REPRODUCTION - Category 2
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 3
Target organs	: Contains material which causes damage to the following organs: brain, skin, central nervous system (CNS).
	Contains material which may cause damage to the following organs: kidneys, lungs, the nervous system, liver, upper respiratory tract, eye, lens or cornea.

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Section 2. Hazard				
	Percentage of the mixture consist 33.1% (Oral), 37.2% (Dermal), 88		nknown acute tox	cicity:
	Percentage of the mixture consist aquatic environment: 67.2%	ing of ingredient(s) of u	nknown hazards t	to the
GHS label elements				
Hazard pictograms		>		
Signal word	: Danger			
Hazard statements	: Flammable liquid and vapor. May be harmful in contact with ski Causes mild skin irritation. Causes serious eye irritation. May cause respiratory irritation. Suspected of causing cancer. Suspected of damaging fertility or Causes damage to organs throug nervous system (CNS)) Harmful to aquatic life with long la	the unborn child. h prolonged or repeated	d exposure. (cent	ral
Precautionary statements				
Prevention	: Obtain special instructions before clothing. Wear eye or face protect open flames and other ignition sou ventilating or lighting equipment. static discharges. Avoid release t eat, drink or smoke when using th	ion. Keep away from h urces. No smoking. Us Use non-sparking tools o the environment. Do	eat, hot surfaces, e explosion-proof . Take action to p	, sparks, [:] electrica prevent
Response	: IF exposed or concerned: Get me POISON CENTER or doctor if you water for several minutes. Remov Continue rinsing. If eye irritation p	i feel unwell. IF IN EYE e contact lenses, if pres	ES: Rinse cautious sent and easy to c	sly with do.
Storage	: Store in a well-ventilated place. Ke	eep container tightly clo	sed. Keep cool.	
Disposal	: Dispose of contents and contained and international regulations.	in accordance with all	local, regional, na	ational
Other hazards which do no result in classification	t : Prolonged or repeated contact ma	y dry skin and cause ir	ritation.	

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of identification	: Not available.

CAS number/other identifiers		
CAS number	;	Not applicable.

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Section 3. Composition/information on ingredients

Ingredient name	%	CAS number
Solvent naphtha (petroleum), medium aliph.	15 - <20	64742-88-7
Naphtha (petroleum), hydrotreated heavy	15 - <20	64742-48-9
barium sulfate	10 - <12.5	7727-43-7
titanium dioxide	5 - <7	13463-67-7
xylene	2 - <3	1330-20-7
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	1 - <2	64742-48-9 (EC
		918-481-9)
Silica, vitreous	1 - <2	60676-86-0
2-ethylhexanoic acid, zirconium salt	0.5 - <1	22464-99-9
ethylbenzene	0.2 - <0.5	100-41-4
calcium bis(2-ethylhexanoate)	0.2 - <0.5	136-51-6
2-butanone oxime	0.1 - <0.2	96-29-7
2-ethylhexanoic acid, cobalt salt	0.1 - <0.2	13586-82-8

Date of issue

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	:	Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
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	<u>ica</u>	l attention and special treatment needed, if necessary
Notes to physician Specific treatments	:	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. No specific treatment.
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.
Potential acute health effects	<u>s</u>	
Eye contact	1	Causes serious eye irritation.
Inhalation	1	May cause respiratory irritation.
Skin contact	:	May be harmful in contact with skin. Causes mild skin irritation. Defatting to the skin.
Ingestion	1	No known significant effects or critical hazards.

See toxicological information (Section 11)

English (US)

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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 harmful 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 halogenated compounds metal oxide/oxides
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	 Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

contractor.

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. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. If specialized clothing is required to deal with the spillage, take note of any
Tor emergency responders		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.
Methods and materials for co	on	tainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal

English (US)	Brazil
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Section 6. Accidental release measures 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). 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. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. 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 non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. 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	Do not store above the following temperature: 50°C (122°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
Solvent naphtha (petroleum), medium aliph.		ACGIH TLV (United States).
		TWA: 400 ppm
barium sulfate		ACGIH TLV (United States, 3/2019).
		TWA: 5 mg/m ³ 8 hours. Form: Inhalable
		fraction
titanium dioxide		ACGIH TLV (United States, 3/2019).
		TWA: 10 mg/m ³ 8 hours.
xylene		Minsitry of Labor and Employement
		(Brazil, 11/2001).
		TWA: 340 mg/m ³ 8 hours.
		TWA: 78 ppm 8 hours.
2-ethylhexanoic acid, zircor	nium salt	ACGIH TLV (United States, 3/2019).
		STEL: 10 mg/m³, (as Zr) 15 minutes.
		TWA: 5 mg/m³, (as Zr) 8 hours.
ethylbenzene		Minsitry of Labor and Employement
		(Brazil, 11/2001).
		TWA: 340 mg/m ³ 8 hours.
		TWA: 78 ppm 8 hours.
2-ethylhexanoic acid, cobal	t salt	ACGIH TLV (United States, 3/2019). Skin
		sensitizer. Inhalation sensitizer.
		TWA: 0.02 mg/m³, (as Co) 8 hours.
Recommended monitoring procedures	atmosphere or bio of the ventilation of protective equipm standards. Refere	tains ingredients with exposure limits, personal, workplace ological monitoring may be required to determine the effectiveness or other control measures and/or the necessity to use respiratory ent. Reference should be made to appropriate monitoring ence to national guidance documents for methods for the azardous substances will also be required.
Appropriate engineering	: Use only with ade	quate ventilation. Use process enclosures, local exhaust
controls		r engineering controls to keep worker exposure to airborne
		w any recommended or statutory limits. The engineering controls
		gas, vapor or dust concentrations below any lower explosive
	•	ion-proof ventilation equipment.
Environmental exposure		entilation or work process equipment should be checked to ensure
controls		he requirements of environmental protection legislation. In some
		obers, filters or engineering modifications to the process
	equipment will be	necessary to reduce emissions to acceptable levels.
ndividual protection measu	<u>ires</u>	
Hygiene measures		arms and face thoroughly after handling chemical products,
	-	oking and using the lavatory and at the end of the working period.
		iques should be used to remove potentially contaminated clothing

safety showers are close to the workstation location.

: Chemical splash goggles.

Eye protection Skin protection Wash contaminated clothing before reusing. Ensure that eyewash stations and

Section 8.	Exposure	controls/personal	protection

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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	: For prolonged or repeated handling, use the following type of gloves:
	Recommended: polyvinyl alcohol (PVA), Viton® May be used: nitrile rubber
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	 Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

Section 9. Physical and chemical properties

Appearance	
Physical state	: Liquid.
Color	: Not available.
Odor	: Not available.
рН	: Not available.
Melting point	: Not available.
Boiling point	: >37.78°C (>100°F)
Flash point	: Closed cup: 37°C (98.6°F)
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: 1.08
Solubility	: Insoluble in the following materials: cold water.
Partition coefficient: n- octanol/water	: Not available.
Auto-ignition temperature	: Not available.

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Section 9. Physica	al and chemical proper	ties		
Decomposition temperature	: Not available.			
Viscosity	: Kinematic (40°C (104°F)): >0.21 c	² /s (>21 cSt)		
Section 10. Stabili	ity and reactivity			
Reactivity	: No specific test data related to rea	activity available for this	product or its in	gredients.
Chemical stability	: The product is stable.			
Possibility of hazardous reactions	: Under normal conditions of storag	e and use, hazardous r	eactions will not	occur.
Conditions to avoid	: When exposed to high temperatur products.	res may produce hazaro	dous decomposi	tion
Incompatible materials	: Keep away from the following mat oxidizing agents, strong alkalis, st		exothermic read	ctions:
Hazardous decomposition products	: Decomposition products may inclucarbon dioxide, smoke, oxides of	5	als: carbon mon	oxide,

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Solvent naphtha (petroleum),	LD50 Dermal	Rabbit	>3000 mg/kg	-
medium aliph.			"	
	LD50 Oral	Rat	>5000 mg/kg	-
Naphtha (petroleum), hydrotreated heavy	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>6 g/kg	-
barium sulfate	LD50 Dermal	Rat	>2000 mg/kg	-
	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	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
Hydrocarbons, C10-C13, n-	LD50 Dermal	Rabbit	>5000 mg/kg	-
alkanes, isoalkanes, cyclics,				
< 2% aromatics				
	LD50 Oral	Rat	>6 g/kg	-
2-ethylhexanoic acid, zirconium salt	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	>5 g/kg	-
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
-	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
2-butanone oxime	LD50 Oral	Rat	930 mg/kg	-

Irritation/Corrosion

English (US)

Brazil

						1	
Product/ingredient name	Result		Species	Score	Exposure	Observation	
xylene	Skin - Mod	erate irritant	Rabbit	-	24 hours 500	-	
					mg		
Conclusion/Summary			•				
Skin	: There are no data available on the mixture itself.						
Eyes	: There ar	e no data ava	ailable on the mi	xture itself.			
Respiratory	: There ar	re no data ava	ailable on the mi	xture itself.			
Sensitization							
Not available.							
Conclusion/Summary							
Skin	: There are no data available on the mixture itself.						
Respiratory	: There ar	e no data ava	ailable on the mi	xture itself.			
Mutagenicity							
Not available.							
Conclusion/Summary	: There ar	e no data ava	ailable on the mi	xture itself.			
<u>Carcinogenicity</u>							
Not available.							
Conclusion/Summers	. Thors ar	a na data avr	ailabla an the mi	vtura itaalf			
Conclusion/Summary	: There ar	e no data ava	ailable on the mi	xture itself.			
Classification							
Product/ingredient name	OSHA	IARC N	ITP				
titanium dioxide	-	2B -					
xylene	-	3 -					
ethylbenzene	-	2B -					

Carcinogen Classification code:

2-ethylhexanoic acid, cobalt -

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.

salt

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

2B

Teratogenicity

Not available.

Conclusion/Summary : There are no data available on the mixture itself. <u>Specific target organ toxicity (single exposure)</u>

Brazil

Reasonably anticipated to be a human carcinogen.

Name	Category	Route of exposure	Target organs
Solvent naphtha (petroleum), medium aliph. Naphtha (petroleum), hydrotreated heavy	Category 3 Category 3		Narcotic effects Respiratory tract irritation
xylene	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
Solvent naphtha (petroleum), medium aliph.	Category 1		central nervous system (CNS)
ethylbenzene	Category 2	-	hearing organs

Target organs

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

Aspiration hazard

Name	Result
Solvent naphtha (petroleum), medium aliph.	ASPIRATION HAZARD - Category 1
Naphtha (petroleum), hydrotreated heavy	ASPIRATION HAZARD - Category 1
xylene	ASPIRATION HAZARD - Category 1
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2%	ASPIRATION HAZARD - Category 1
aromatics ethylbenzene	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure	:	Not available.
Potential acute health effects		
Eye contact	:	Causes serious eye irritation.
Inhalation	:	May cause respiratory irritation.
Skin contact	:	May be harmful in contact with skin. Causes mild skin irritation. Defatting to the skin.
Ingestion	1	No known significant effects or critical hazards.

Symptoms related to	the physical, chemical and toxicological characteristics
Eye contact	: Adverse symptoms may include the following: pain or irritation
	watering
	redness

Inhalation	Adverse symptoms may include the following: respiratory tract irritation coughing reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact :	Adverse symptoms may include the following: irritation redness dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion :	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations

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 PPG 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.
Short term exposure		
Potential immediate effects	1	There are no data available on the mixture itself.
Potential delayed effects	1	There are no data available on the mixture itself.
Long term exposure		
Potential immediate effects	1	There are no data available on the mixture itself.
Potential delayed effects	1	There are no data available on the mixture itself.
Potential chronic health effe	<u>ect</u>	<u>s</u>
Not available.		

Brazil

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.
Carcinogenicity	: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: Suspected of damaging the unborn child.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: Suspected of damaging fertility.

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)
SIGMARINE 2492 VERMELHO SEG 5R 4/14 Solvent naphtha (petroleum), medium aliph. barium sulfate xylene ethylbenzene 2-butanone oxime 2-ethylhexanoic acid, cobalt salt	117192.1 N/A A300 3500 930 500	4527.2 2500 2500 1700 17800 1100 N/A	N/A N/A N/A N/A N/A N/A	53.7 N/A N/A 11 17.8 N/A N/A	7.3 N/A N/A 1.5 1.5 N/A N/A

Other information

: Not available.

Section 12. Ecological information

Ecotoxicity

Product/ingredient name	Result	Species	Exposure
titanium dioxide 2-ethylhexanoic acid, zirconium salt	Acute LC50 >100 mg/l Fresh water Acute LC50 >100 mg/l	Daphnia - Daphnia magna Fish	48 hours 96 hours
ethylbenzene	Acute LC50 150 to 200 mg/l Fresh water	Fish	96 hours

Persistence/degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
xylene ethylbenzene	-	-	Readily Readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
xylene	3.16	7.4 to 18.5	low
ethylbenzene	3.15	79.43	low
2-butanone oxime	0.63	5.01	low

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Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	Brazil (ANTT)	IMDG	ΙΑΤΑ
UN number	UN1263	UN1263	UN1263
UN proper PAINT shipping name		PAINT	PAINT
Transport hazard class(es)	3	3	3
Packing group	III		III
Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

Additional information

Brazil	: None identified.
Risk number	: 30
IMDG	: None identified.
IATA	: None identified.

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

English (US) Brazil	
English		

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Product na	me SIGMARINE 2492 VE	RMELHO SEG 5R 4/14		
Castion 44. Transment information				

Section 14. Transport information

Transport in bulk 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).

Section 16. Other information

<u>History</u>	
Date of previous issue	: 6/7/2020
Version	: 3.01
Prepared by	: 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.

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