# **SAFETY DATA SHEET**



Date of issue 21 M	lay 2020
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Version 2

### Section 1. Product and company identification

Product name	: SIGMADUR 550 VERMELHO SEGURANÇA MUNSELL 5R 4/14
Product code	: 5500003L.01/5R 4/14
Other means of identification	: Not available.
Product type	: Liquid.

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

### **Identified uses**

Coating. Paints. Painting-related materials.

Uses advised against	Reason
Not applicable.	

Supplier's details:	
Supplier	<ul> <li>PPG Industrial do Brasil – Tintas e Vernizes Ltda</li> <li>Via Anhanguera KM 106, Bairro Sao Judas Tadeu</li> <li>Sumare / SP, Brasil</li> <li>55 19 2103-6000 (Recepção e Portaria)</li> </ul>
e-mail address of person responsible for this SDS	: fispq@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	ACUTE TOXICITY (dermal) - Category 5
	ACUTE TOXICITY (inhalation) - Category 4
	SKIN IRRITATION - Category 2
	EYE IRRITATION - Category 2A
	CARCINOGENICITY - Category 2
	TOXIC TO REPRODUCTION - Category 2
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract
	irritation) - Category 3
	AQUATIC HAZARD (ACUTE) - Category 3
	AQUATIC HAZARD (LONG-TERM) - Category 3
Target organs	: Contains material which causes damage to the following organs: brain.
	Contains material which may cause damage to the following organs: kidneys, lungs,
	the nervous system, liver, upper respiratory tract, skin, central nervous system
	(CNS), ears, eye, lens or cornea.

Section 2. Hazards identification			
	Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 3% (Oral), 3% (Dermal), 26.4% (Inhalation)		
	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 45.6%		
	This product contains TiO2 which has been classified as a GHS Carcinogen Category 2 based on its IARC 2B classification. 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).		
GHS label elements			
Hazard pictograms			
Signal word	: Warning		
Hazard statements	<ul> <li>Fammable liquid and vapor. May be harmful in contact with skin. Causes skin irritation. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. Harmful to aquatic life with long lasting effects.</li> </ul>		
Precautionary statements			
Prevention	: Øbtain special instructions before use. Wear protective gloves. Wear protective clothing. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Avoid release to the environment. Avoid breathing vapor. Wash thoroughly after handling.		
Response	: IF exposed or concerned: Get medical advice or attention. IF INHALED: Call a POISON CENTER or doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. IF ON SKIN: Call a POISON CENTER or doctor if you feel unwell. Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice or attention.		
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	: <b>P</b> rolonged or repeated contact may dry skin and cause irritation.		

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### Section 3. Composition/information on ingredients

#### Substance/mixture Other means of identification

**CAS number** 

: Mixture

: Not available.

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

: Not applicable.

Ingredient name	%	CAS number	
xylene	20 - <30	1330-20-7	
barium sulfate	15 - <20	7727-43-7	
n-butyl acetate	5 - <7	123-86-4	
ethylbenzene	3 - <5	100-41-4	
calcium carbonate	2 - <3	471-34-1	
titanium dioxide	1 - <2	13463-67-7	
Silica, vitreous	1 - <2	60676-86-0	
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	0.2 - <0.5	41556-26-7	
toluene	0.1 - <0.2	108-88-3	

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 medio	ca	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		
Eye contact	1	Causes serious eye irritation.
Inhalation		Harmful if inhaled. May cause respiratory irritation.
Skin contact	1	May be harmful in contact with skin. Causes skin irritation. Defatting to the skin.

English (US) Brazil

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Section 4. First a	aid measure	es		
Ingestion	: No known s	ignificant effects or cri	tical hazards.	
See toxicological informa	tion (Section 11)			
Section 5. Fire-fi	ghting mea	asures		
Extinguishing media				
Suitable extinguishing media	: Use dry chem	iical, CO₂, water spray	r (fog) or foam.	
Unsuitable extinguishing media	: Do not use wa	ater jet.		
Specific hazards arising from the chemical	In a fire or if h with the risk o long lasting ef	eated, a pressure incr f a subsequent explos ffects. Fire water cont	ease will occur and the	armful to aquatic life with erial must be contained
Hazardous thermal decomposition products	: Decompositio carbon oxides nitrogen oxide sulfur oxides metal oxide/or	5 95	e the following material	s:
Special protective actions for fire-fighters	there is a fire. suitable trainir	No action shall be tal	ken involving any perso rom fire area if this can	

**Special protective** equipment for 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	ctiv	ve equipment and emergency procedures
For non-emergency personnel		No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing 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.

Methods and materials for containment and cleaning up

Code Product nam	5500003L.01/5R 4/14 ne SIGMADUR	Date of issue 550 VERMELHO SEGURANÇA MUNSELL 5R 4	21 May 2020 //14	Version	2
Sectio	n 6. Acciden	tal release measures			
Small spill	:	Stop leak if without risk. Move contain and explosion-proof equipment. Dilut Alternatively, or if water-insoluble, abs appropriate waste disposal container. contractor.	e with water and mo sorb with an inert dry	p up if water-solul material and plac	ble. ce in an
Large spill	:	Stop leak if without risk. Move contain and explosion-proof equipment. Appr sewers, water courses, basements or effluent treatment plant or proceed as combustible, absorbent material e.g. and place in container for disposal ac Dispose of via a licensed waste dispo material may pose the same hazard a emergency contact information and S	roach release from u confined areas. Wa follows. Contain an sand, earth, vermicul cording to local regul sal contractor. Cont as the spilled product	pwind. Prevent e ash spillages into d collect spillage lite or diatomaceo lations (see Sectio aminated absorbe . Note: see Sectio	ntry into an with non- ous earth on 13). ent

## 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.
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.

## Section 8. Exposure controls/personal protection

<u>Control parameters</u> <u>Occupational exposure limits</u>

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# Section 8. Exposure controls/personal protection

Ingredient name	Exposure limits
<mark>xy</mark> lene	Minsitry of Labor and Employement (Brazil, 11/2001). TWA: 340 mg/m <sup>3</sup> 8 hours.
barium sulfate	TWA: 78 ppm 8 hours. <b>ACGIH TLV (United States, 3/2019).</b> TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Inhalable
n-butyl acetate	fraction ACGIH TLV (United States, 3/2019). STEL: 150 ppm 15 minutes.
ethylbenzene	TWA: 50 ppm 8 hours. <b>Minsitry of Labor and Employement</b> <b>(Brazil, 11/2001).</b> TWA: 340 mg/m <sup>3</sup> 8 hours.
calcium carbonate	TWA: 78 ppm 8 hours. <b>ACGIH TLV (United States).</b> TWA: 3 mg/m <sup>3</sup> Form: Respirable TWA: 10 mg/m <sup>3</sup> Form: Total dust
titanium dioxide	ACGIH TLV (United States, 3/2019). TWA: 10 mg/m <sup>3</sup> 8 hours.
toluene	Minsitry of Labor and Employement (Brazil, 11/2001). Absorbed through skin. TWA: 290 mg/m <sup>3</sup> 8 hours. TWA: 78 ppm 8 hours.
Recommended monitoring procedures	: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectivenes of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering control also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Environmental exposure controls	<ul> <li>Emissions from ventilation or work process equipment should be checked to ensur they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.</li> </ul>
ndividual protection measu	es
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 Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye protection Skin protection	: Chemical splash goggles.

## Section 8. Exposure controls/personal 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	: For prolonged or repeated handling, use the following type of gloves:
	Not recommended: nitrile rubber Recommended: polyvinyl alcohol (PVA), Viton®, natural rubber (latex)
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	<ul> <li>Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.</li> </ul>
Respiratory protection	: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

## Section 9. Physical and chemical properties

<u>Appearance</u>	
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: 25°C (77°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	: 1.31
Solubility	: Insoluble in the following materials: cold water.
Partition coefficient: n- octanol/water	: Not available.
Auto-ignition temperature	: Not available.

Brazil

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Section 9. Physi	and chemical properties			
Decomposition temperate	Not available.			
Viscosity	Kinematic (40°C (104°F)): >0.21 cm²/s (>21 cSt)			
Viscosity	60 - 100 s (ISO 6mm)			
Section 10. Stab	and reactivity			
Reactivity	No specific test data related to reactivity available for this product or its ingred	lients.		
Chemical stability	The product is stable.			
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occ	ur.		
Conditions to avoid	When exposed to high temperatures may produce hazardous decomposition products.			
Incompatible materials	Keep away from the following materials to prevent strong exothermic reaction oxidizing agents, strong alkalis, strong acids.	IS:		

carbon dioxide, smoke, oxides of nitrogen.

## Section 11. Toxicological information

#### Information on toxicological effects

Hazardous decomposition

**Acute toxicity** 

products

Product/ingredient name	Result	Species	Dose	Exposure
<b>x</b> ylene	LD50 Dermal	Rabbit	>1.7 g/kg	-
-	LD50 Oral	Rat	4.3 g/kg	-
barium sulfate	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
n-butyl acetate	LC50 Inhalation Vapor	Rat	>21.1 mg/l	4 hours
	LC50 Inhalation Vapor	Rat	2000 ppm	4 hours
	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Oral	Rat	10.768 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	-
calcium carbonate	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	6450 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	-
bis(1,2,2,6,6-pentamethyl-	LD50 Oral	Rat	3.125 g/kg	-
4-piperidyl) sebacate				
toluene	LC50 Inhalation Vapor	Rat	49 g/m³	4 hours
	LD50 Dermal	Rabbit	8.39 g/kg	-
	LD50 Oral	Rat	5580 mg/kg	-

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

: Decomposition products may include the following materials: carbon monoxide,

English (US) Brazil

Code 5500003L.01/5R 4/14 Product name SIGMADU	R 550 VERMELH		of <mark>issue</mark> A MUNSELL 5R 4/1	21 May 2020 4	Vers	ion 2
Section 11. Toxic	ological	inform	ation			
Product/ingredient name	Result Specie		Species	Score	Exposure	Observation
xylene	Skin - Mode	erate irritant	Rabbit	-	24 hours 500 mg	-
Conclusion/Summary				<b>I</b>	-	•
Skin	: There are	e no data ava	ailable on the mi	xture itself.		
Eyes	: There ar	e no data ava	ailable on the mi	xture itself.		
Respiratory	: There ar	e no data ava	ailable on the mi	xture itself.		
Sensitization						
Not available.						
Conclusion/Summary						
Skin	: There ar	e no data ava	ailable on the mi	xture itself.		
Respiratory	: There ar	: There are no data available on the mixture itself.				
<u>Mutagenicity</u>						
Not available.						
Conclusion/Summary	: There are no data available on the mixture itself.					
Carcinogenicity						
Not available.						
Conclusion/Summary	: There ar	e no data ava	ailable on the mi	xture itself.		
<u>Classification</u>						
Product/ingredient name	OSHA	IARC N	ТР			
<b>x</b> ylene	-	3 -				
ethylbenzene	-	2B -				
titanium dioxide	-	2B - 3 -				
toluene	-	S -				

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	•••	Route of exposure	Target organs
<b>x</b> ylene	Category 3	-	Respiratory tract irritation
	Category 3 Category 3	-	Narcotic effects Narcotic effects

English (US)	Brazil	9/14

### Section 11. Toxicological information

Specific target organ toxicity (repeated exposure)

Name	•••	Route of exposure	Target organs
	Category 2	-	hearing organs
toluene	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, the nervous system, liver, upper respiratory tract, skin, central nervous system (CNS), ears, eye, lens or cornea.

English (US)

Brazil

#### Aspiration hazard

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

Information on the likely routes of exposure	: Not available.
Potential acute health effe	cts
Eye contact	: Causes serious eye irritation.
Inhalation	: Harmful if inhaled. May cause respiratory irritation.
Skin contact	: May be harmful in contact with skin. Causes skin irritation. Defatting to the skin.
Ingestion	: No known significant effects or critical hazards.
Symptoms related to the p	hysical, 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
<b></b>	

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Code5500003L.01/5R 4/14Product nameSIGMADUI	R 55	Date of issue 0 VERMELHO SEGURANÇA MUNSELL 5	21 May 2020 R 4/14	Version	2
Section 11. Toxic	ol	ogical information			
Delayed and immediate effect	<u>cts</u>	and also chronic effects from sh	ort and long term exp	<u>osure</u>	
Conclusion/Summary	:	There are no data available on the utilized as a raw material in a liqui particles are bound in a matrix wit unbound particles of TiO2 when th Sanding the coating surface or mi depending on the duration and lev personal protective equipment and Exposure to component solvent ve occupational exposure limit may r membrane and respiratory system and central nervous system. Sym fatigue, muscular weakness, drow consciousness. Solvents may can through the skin. There is some evapors in combination with consta expected from exposure to noise cause irritation and reversible dam vomiting. This takes into account and also chronic effects of compo- oral, inhalation and dermal routes	d coating formulation. I h no meaningful potenti ne product is applied with st from spray applicatio vel of exposure and requ d/or engineering control apor concentrations in e esult in adverse health in irritation and adverse ptoms and signs includ vsiness and, in extreme use some of the above evidence that repeated e int loud noise can cause alone. If splashed in the nage. Ingestion may ca , where known, delayed inents from short-term a	In this case, the al for human ex th a brush or roll ns may be harm uire the use of al s (see Section 8 excess of the state effects such as re effects on the kid e headache, diz cases, loss of effects by absorp exposure to orgate e greater hearing e use nausea, dia and immediate and long-term ex	TiO2 posure to er. ful opropriate ). ted nucous dneys, liver ziness, ption anic solvent g loss than t may rrhea and effects
Short term exposure Potential immediate	:	There are no data available on the	e mixture itself.		
effects Potential delayed effects	:	There are no data available on the	e mixture itself.		
Long term exposure Potential immediate effects	:	There are no data available on the	e mixture itself.		
Potential delayed effects	:	There are no data available on the	e mixture itself.		
Potential chronic health eff	ect	<u>s</u>			
Not available.					
General	:	rolonged or repeated contact can or dermatitis.	n defat the skin and lea	d to irritation, cra	acking and/
Carcinogenicity	:	Suspected of causing cancer. Ris exposure.	sk of cancer depends or	n duration and le	vel of
Mutagenicity	:	No known significant effects or cri	tical hazards.		

- **Teratogenicity** : Suspected of damaging the unborn child.
- **Developmental effects** : No known significant effects or critical hazards.
- Fertility effects : No known significant effects or critical hazards.

### Numerical measures of toxicity

Acute toxicity estimates

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## 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)
GMADUR 550 VERMELHO SEGURANÇA MUNSELL 5R 4/14	12866.7	3140.9	N/A	26.6	3.4
xylene	4300	1100	N/A	11	1.5
barium sulfate	N/A	2500	N/A	N/A	N/A
n-butyl acetate	10768	N/A	N/A	N/A	N/A
ethylbenzene	3500	17800	N/A	17.8	1.5
calcium carbonate	6450	2500	N/A	N/A	N/A
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	3125	N/A	N/A	N/A	N/A
toluene	5580	8390	N/A	49	N/A

### Other 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

### **Ecotoxicity**

Product/ingredient name	Result	Species	Exposure
-butyl acetate	Acute LC50 18 mg/l	Fish	96 hours
ethylbenzene	Acute LC50 150 to 200 mg/l Fresh water	Fish	96 hours
calcium carbonate titanium dioxide	Acute EC10 >14 mg/l Acute LC50 >100 mg/l Fresh water	Algae Daphnia - Daphnia magna	72 hours 48 hours

### Persistence/degradability

Product/ingredient name	Test	Result		Dose		Inoculum
<b>n</b> -butyl acetate	TEPA and OECD 301D	83 % - Rea	idily - 28 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
✓lene n-butyl acetate ethylbenzene toluene	- - - -		- - -		Readily Readily Readily Readily	/ /

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
<b>x</b> ylene	3.16	7.4 to 18.5	low
n-butyl acetate	1.78	-	low
ethylbenzene	3.15	79.43	low
toluene	2.73	8.32	low

English (US)	Brazil	12/14

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## Section 12. Ecological information

#### 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

	Brazil (ANTT)	IMDG	ΙΑΤΑ
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class(es)	3	3	3
Packing group	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.
ΙΑΤΑ	: 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	13/14

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### Section 14. Transport information

Transport in bulk according : Not applicable. to IMO instruments

### Section 15. Regulatory information

Safety, health and : 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	: 12/3/2019
Version	: 2
Prepared by	: EHS
Key to abbreviations	<ul> <li>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</li> </ul>
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.