SAFETY DATA SHEET



Date of issue 15 November 2023

Version 3.04

Section 1. Product and company identification

Product name
Product code
Other means of identification
Product type

: STEELGUARD 651 WHITE

- : 00359402
- : 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	: CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION - Category 1B AQUATIC HAZARD (ACUTE) - Category 3 AQUATIC HAZARD (LONG-TERM) - Category 3
Target organs	: Contains material which may cause damage to the following organs: kidneys, lungs, bladder, gastrointestinal tract, upper respiratory tract, eyes.
	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 19.1%
GHS label elements	
Hazard pictograms	

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Section 2. Hazards identification

Signal word	1	Danger	
Hazard statements	:	Suspected of causing cancer. May damage fertility or the unborn child. Harmful to aquatic life with long lasting effects.	
Precautionary statements			
Prevention	:	Obtain special instructions before use. Wear protective gloves, protective clothing and eye or face protection. Avoid release to the environment.	
Response	1	IF exposed or concerned: Get medical advice or attention.	
Storage	1	Not applicable.	
Disposal	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.	
Other hazards which do not result in classification	:	Contains isothiazolinones. May cause allergic reaction.	

Section 3. Composition/information on ingredients

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

CAS number/other identifiers

CAS number : Not applicable.		
Ingredient name	%	CAS number
Polyphosphoric acids, ammonium salts	20 - <30	68333-79-9
titanium dioxide	10 - <12.5	13463-67-7
melamine	7 - <10	108-78-1
pentaerythritol	7 - <10	115-77-5
isobutyric acid, monoester with 2,2,4-trimethylpentane-1,3-diol	1 - <2	25265-77-4
9(or 10)-sulphooctadecanoic acid, potassium salt	0.1 - <0.2	67968-63-2
octhilinone (ISO)	0 - <0.1	26530-20-1

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 necess	ary 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.

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Section 4. First a	aid measure	es			
Ingestion			immediately and show th NOT induce vomiting.	is container o	r label.
Indication of immediate m	edical attention a	nd special treatment	<u>needed, if necessary</u>		
Notes to physician Specific treatments	: The expose No specific t	d person may need to treatment.	ition products in a fire, syr be kept under medical su	irveillance for	48 hours.
Protection of first-aiders	is suspected mask or self providing aid	d that fumes are still p f-contained breathing a d to give mouth-to-mo	any personal risk or withor resent, the rescuer should apparatus. It may be dan uth resuscitation. Wash o wing it, or wear gloves.	l wear an app gerous to the	ropriate person
Potential acute health effe	<u>cts</u>				
Eye contact	: No known si	ignificant effects or cri	tical hazards.		
Inhalation		ignificant effects or cri			
Skin contact		ignificant effects or cri			
Ingestion	: No known si	ignificant effects or cri	tical hazards.		

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst. 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 phosphorus oxides metal oxide/oxides
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
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, prote	ctive 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. 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 c	ontainment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. 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 an illege with non-combustible approximate material and control of a control of the control of th

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). 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 ingest. Avoid breathing vapor or mist. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Conditions for safe storage, including any incompatibilities	Store between the following temperatures: 10 to 30°C (50 to 86°F). Store in accordance with local regulations. 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. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits	
intanium dioxide pentaerythritol	ACGIH TLV (United States, TWA: 2.5 mg/m ³ 8 hours. For fraction, finescale particles ACGIH TLV (United States, TWA: 10 mg/m ³ 8 hours.	orm: respirable
Recommended monitoring procedures	: Reference should be made to appropriate monitoring standards. Re national guidance documents for methods for the determination of has substances will also be required.	
Appropriate engineering controls	: If user operations generate dust, fumes, gas, vapor or mist, use proclocal exhaust ventilation or other engineering controls to keep worke airborne contaminants below any recommended or statutory limits.	
Environmental exposure controls	: Emissions from ventilation or work process equipment should be che they comply with the requirements of environmental protection legisla cases, fume scrubbers, filters or engineering modifications to the pro- equipment will be necessary to reduce emissions to acceptable level	ation. In some
ndividual protection measur	<u>15</u>	
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical before eating, smoking and using the lavatory and at the end of the v Appropriate techniques should be used to remove potentially contam Wash contaminated clothing before reusing. Ensure that eyewash s safety showers are close to the workstation location.	working period. hinated clothing.
Eye protection	: Safety glasses with side shields.	
Skin protection Hand protection	: Chemical-resistant, impervious gloves complying with an approved s be worn at all times when handling chemical products if a risk assess this is necessary. Considering the parameters specified by the glove check during use that the gloves are still retaining their protective pro- should be noted that the time to breakthrough for any glove material different for different glove manufacturers. In the case of mixtures, of several substances, the protection time of the gloves cannot be accu- estimated.	sment indicates e manufacturer, operties. It may be consisting of
Gloves	: For prolonged or repeated handling, use the following type of gloves	•
	Recommended: Viton®	
Body protection	: Personal protective equipment for the body should be selected base being performed and the risks involved and should be approved by a before handling this product.	
Other skin protection	 Appropriate footwear and any additional skin protection measures sh selected based on the task being performed and the risks involved a approved by a specialist before handling this product. 	

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Section 8. Exposure controls/personal protection

Respiratory protection	: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

Section 9. Physical and chemical properties

<u>Appearance</u>		
Physical state	1	Liquid.
Color	4	White.
Odor	1	Not available.
рН	1	Not available.
Melting point	1	Not available.
Boiling point	:	>37.78°C (>100°F)
Flash point	1	Closed cup: Not applicable.
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	Not available.
Lower and upper explosive (flammable) limits	1	Not available.
Vapor pressure	:	Not available.
Vapor density	:	Not available.
Relative density	:	1.41
Solubility(ies)		Media Result
Solubility(les)	1	cold water Soluble
Partition coefficient: n- octanol/water	:	Not applicable.
Auto-ignition temperature	1	Not available.
Decomposition temperature	1	Not available.
Viscosity	:	Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)
Viscosity	:	> 100 s (ISO 6mm)

Section 10. Stability 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 storage and use, hazardous reactions will not occur.
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 reactions: oxidizing agents, strong alkalis, strong acids.

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Section 10. Stability and reactivity

Hazardous decomposition products

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

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

	Species	Dose	Exposure
LD50 Oral	Rat	4.74 g/kg	-
LC50 Inhalation Dusts and mists	Rat	>6.82 mg/l	4 hours
LD50 Dermal	Rabbit	>5000 mg/kg	-
LD50 Oral	Rat	>5000 mg/kg	-
LC50 Inhalation Dusts and mists	Rat	>5190 mg/m ³	4 hours
LD50 Oral	Rat	3161 mg/kg	-
LD50 Oral	Rat	18500 mg/kg	-
LD50 Dermal	Rabbit	>15.2 g/kg	-
LD50 Oral	Rat	6.5 g/kg	-
LC50 Inhalation Dusts and mists	Rat	0.27 mg/l	4 hours
LD50 Dermal	Rabbit	311 mg/kg	-
LD50 Oral	Rat	125 mg/kg	-
	LC50 Inhalation Dusts and mists LD50 Dermal LD50 Oral LC50 Inhalation Dusts and mists LD50 Oral LD50 Oral LD50 Dermal LD50 Oral LC50 Inhalation Dusts and mists LD50 Dermal LD50 Oral	LC50 Inhalation Dusts and mistsRatLD50 DermalRabbitLD50 OralRatLC50 Inhalation Dusts and mistsRatLD50 OralRatLD50 OralRatLD50 DermalRatLD50 OralRatLD50 OralRat	LC50 Inhalation Dusts and mists LD50 Dermal LD50 Oral LC50 Inhalation Dusts and mists LD50 Oral LD50 Oral LD50 Oral LD50 Oral LD50 Oral LD50 Oral LD50 DermalRat

Irritation/Corrosion

Not available.

Conclusion/Summary

Skin Eyes : There are no data available on the mixture itself.

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

Respiratory Sensitization

ochistization			
Product/ingredient name	Route of exposure	Species	Result
octhilinone (ISO)	skin	Mouse	Sensitizing
Conclusion/Summary			
Skin Respiratory		data available on the mixture itse data available on the mixture itse	
<u>Mutagenicity</u> Not available.			
Conclusion/Summary Carcinogenicity Not available.	: There are no c	lata available on the mixture itse	elf.
Conclusion/Summary <u>Classification</u>	: There are no c	data available on the mixture itse	elf.

Section 11. Toxicological information

Product/ingredient name	OSHA	IARC	NTP
Manium dioxide melamine	-	2B 2B	-

Carcinogen Classification code:

IARC: 1, 2A, 2B, 3, 4 NTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen OSHA: + Not listed/not regulated: -

Reproductive toxicity

Not available.

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

Teratogenicity

Not available.

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

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
melamine	Category 2	-	urinary system

Target organs

: Contains material which may cause damage to the following organs: kidneys, lungs, bladder, gastrointestinal tract, upper respiratory tract, eyes.

Aspiration hazard

Not available.

Information on the likely routes of exposure	1	Not available.
Potential acute health effects		
Eye contact	1	No known significant effects or critical hazards.
Inhalation	÷	No known significant effects or critical hazards.
Skin contact	1	No known significant effects or critical hazards.
Ingestion	÷	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: No specific data.
Inhalation	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations

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Section 11. Toxic	ological information
Skin contact	: Adverse symptoms may include the following:
	reduced fetal weight
	increase in fetal deaths
Induction	skeletal malformations
Ingestion	: Adverse symptoms may include the following: reduced fetal weight
	increase in fetal deaths
	skeletal malformations
Delayed and immediate effe	cts 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). 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>	
Potential immediate effects	: There are no data available on the mixture itself.
Potential delayed effects	: There are no data available on the mixture itself.
Long term exposure	
Potential immediate effects	: There are no data available on the mixture itself.
Potential delayed effects	: There are no data available on the mixture itself.
Potential chronic health eff	f <u>ects</u>
Not available.	
General	: No known significant effects or critical hazards.
Carcinogenicity	: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: 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)
TEELGUARD 651 WHITE Polyphosphoric acids, ammonium salts melamine pentaerythritol isobutyric acid, monoester with 2,2,4-trimethylpentane-1,3-diol	11353.2 4740 3161 18500 6500	N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A
octhilinone (ISO)	125	311	N/A	N/A	0.27

Other information

: Not available.

Section 12. Ecological information

Ecotoxicity

Product/ingredient name	Result	Species	Exposure
Polyphosphoric acids, ammonium salts	Acute EC50 730.5 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
titanium dioxide melamine isobutyric acid, monoester with 2,2,4-trimethylpentane- 1,3-diol	Acute LC50 >100 mg/l Fresh water Acute EC50 200 mg/l Acute LC50 33 mg/l	Daphnia - <i>Daphnia magna</i> Daphnia Fish	48 hours 48 hours 96 hours

Persistence/degradability

Product/ingredient name	Test	Result		Dose		Inoculum
sobutyric acid, monoester with 2,2,4-trimethylpentane- 1,3-diol	OECD 301B	>76 % - Re	adily - 28 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
sobutyric acid, monoester with 2,2,4-trimethylpentane- 1,3-diol	-		-		Readily	1

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
isobutyric acid, monoester	-1.22 -1.7 3.2	3.8 1.26 -	Low Low Low
with 2,2,4-trimethylpentane- 1,3-diol octhilinone (ISO)	2.45	-	Low

Mobility in soil

English (US	s) South America 10/12

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Section 12. Ecological information

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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

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

Additional information

UN	: None identified.
Brazil	: None identified.
Risk number	: Not available.
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.

Transport in bulk according	1	Not applicable.
to IMO instruments		

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Section 15. Regulatory information

Safety, health and environmental regulations specific for the product : No known specific national and/or regional regulations applicable to this product (including its ingredients).

Section 16. Other information

History

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Version	: 3.04
	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
References	UN = United Nations : 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.