# SAFETY DATA SHEET



Date of issue 15 November 2023

Version 3.04

# Section 1. Product and company identification

Product name : STEELGUARD 651 WHITE

Product code : 00359402
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** : PPG INDUSTRIES CHILE S.A.

Puerto Madero 9710, Of. 23

Pudahuel - Chile

Teléfono: +56 (2) 2571 0750 Fax: +56 (2) 2571 0752

Email address: : HazComLatam@ppg.com

**Emergency telephone number** 

+56 (2) 2777 1994 (RITA CHILE)

## 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**

	English (US)	Chile	1/12
--	--------------	-------	------

Code Date of issue 15 November 2023 00359402 Version 3.04

**Product name** STEELGUARD 651 WHITE

## Section 2. Hazards identification

**Hazard pictograms** 



Signal word : 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 : IF exposed or concerned: Get medical advice or attention.

**Storage** : Not applicable.

**Disposal** : Dispose of contents and container in accordance with all local, regional, national

and international regulations.

Other hazards which do not : Contains isothiazolinones. May cause allergic reaction. result in classification

**Classification according to** 

NCh382:

: Not regulated.

Label according to

NCh2190:

: Not Regulated as a Dangerous Good.

## Section 3. Composition/information on ingredients

Substance/mixture : Mixture Other means of

identification

: Not available.

### **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.

Product name STEELGUARD 651 WHITE

### 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 medical 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
 Inhalation
 Skin contact
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.
 Ingestion
 No known significant effects or critical hazards.
 No known significant effects or critical 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

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.

English (US) Chile 3/12

Code Date of issue 00359402 15 November 2023 Version 3.04

**Product name** STEELGUARD 651 WHITE

## Section 5. Fire-fighting measures

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

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 containment 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 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 eves 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.

English (US) Chile 4/12 Code 00359402 Date of issue 15 November 2023 Version 3.04

**Product name** STEELGUARD 651 WHITE

# Section 7. Handling and storage

including any incompatibilities

Conditions for safe storage, : 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**

dóxido de titanio (en forma de polvo y conteniendo un 1% o más de partículas con un diámetro < 10um)

melamine pentaerythritol

Destilados (petróleo), fracción parafínica pesada desparafinada con disolventes

9(or 10)-sulphooctadecanoic acid, potassium salt

ACGIH TLV (United States, 1/2022).

TWA: 2.5 mg/m<sup>3</sup> 8 hours. Form: respirable

fraction, finescale particles

Not regulated.

ACGIH TLV (United States, 1/2022).

TWA: 10 mg/m<sup>3</sup> 8 hours.

ACGIH TLV (United States, 1/2022). [Mineral Oil, pure, highly and severely refined]

TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Inhalable

fraction Not regulated.

Recommended monitoring procedures

: 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

: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Environmental exposure** controls

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.

### **Individual protection measures**

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye protection Skin protection Hand protection**  : Safety glasses with side shields.

: 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

English (US) Chile 5/12

Product name STEELGUARD 651 WHITE

## Section 8. Exposure controls/personal protection

estimated.

**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 based on the task

being performed and the risks involved and should be approved by a specialist

before handling this product.

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 : White.

Odor : Not available.

pH : Not available.

Melting point : Not available.

Boiling point : >37.78°C (>100°F)

Flash point : Closed cup: Not applicable.

Evaporation rate : Not available.

Flammability (solid, gas) : Not available.

Lower and upper explosive : Not available.

(flammable) limits

Vapor pressure : Not available.
Vapor density : Not available.

Relative density : 1.41

Solubility(ies) : Media Result

cold water Soluble

Partition coefficient: n-

octanol/water

: Not applicable.

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

**Viscosity** : Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)

Viscosity : > 100 s (ISO 6mm)

English (US) Chile 6/12

Code 00359402 Date of issue 15 November 2023 Version 3.04

Product name STEELGUARD 651 WHITE

## 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.

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**

Product/ingredient name	Result	Species	Dose	Exposure
Polyphosphoric acids, ammonium salts	LD50 Oral	Rat	4.74 g/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	-
melamine	LC50 Inhalation Dusts and mists	Rat	>5190 mg/m³	4 hours
	LD50 Oral	Rat	3161 mg/kg	-
pentaerythritol	LD50 Oral	Rat	18500 mg/kg	-
isobutyric acid, monoester	LD50 Dermal	Rabbit	>15.2 g/kg	-
with 2,2,4-trimethylpentane-				
1,3-diol				
	LD50 Oral	Rat	6.5 g/kg	-
octhilinone (ISO)	LC50 Inhalation Dusts and mists	Rat	0.27 mg/l	4 hours
	LD50 Dermal	Rabbit	311 mg/kg	-
	LD50 Oral	Rat	125 mg/kg	-

# Conclusion/Summary Irritation/Corrosion

: There are no data available on the mixture itself.

Not available.

**Conclusion/Summary** 

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

**Sensitization** 

3	Route of exposure	Species	Result
octhilinone (ISO)	skin	Mouse	Sensitizing

### **Conclusion/Summary**

Product name STEELGUARD 651 WHITE

## Section 11. Toxicological information

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

**Respiratory**: There are no data available on the mixture itself.

Mutagenicity
Not available.

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

**Carcinogenicity** 

Not available.

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

Classification

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

<u>Target organs</u>: 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

: Not available.

Potential acute health effects

Eye contactInhalationNo known significant effects or critical hazards.No known significant effects or critical hazards.

English (US) Chile 8/12

Product name STEELGUARD 651 WHITE

## Section 11. Toxicological information

Skin contactIngestionNo known significant effects or critical hazards.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

**Skin contact**: Adverse symptoms may include the following:

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 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.

**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.

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 effects

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.

**Reproductive toxicity**: May damage fertility or the unborn child.

English (US) Chile 9/12

# Section 11. Toxicological information

## 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)
STEELGUARD 651 WHITE	11353.2	N/A	N/A	N/A	N/A
Polyphosphoric acids, ammonium salts	4740	N/A	N/A	N/A	N/A
melamine	3161	N/A	N/A	N/A	N/A
pentaerythritol	18500	N/A	N/A	N/A	N/A
isobutyric acid, monoester with	6500	N/A	N/A	N/A	N/A
2,2,4-trimethylpentane-1,3-diol					
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 % - Readily - 28 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
sobutyric acid, monoester with 2,2,4-trimethylpentane- 1,3-diol	-	-	Readily

### **Bioaccumulative potential**

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

English (US)	Chile	10/12

Code 00359402 Date of issue 15 November 2023 Version 3.04

STEELGUARD 651 WHITE **Product name** 

## 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 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	IATA
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. : None identified. **Brazil** Risk number : Not available. **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) Chile 11/12

Product name STEELGUARD 651 WHITE

## **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 : NCh 382 - Hazardous substances - General terminology and classification.

NCh 2245 - Material Safety Data Sheet for Chemicals - Contents and section order.

D. S. 148 - Sanitary regulations on hazardous waste management.

D. S. 298 - Transport of dangerous goods by road.

D. S. 374 – Limit for Lead content in paints.

D. S. 594 - Regulation on basic sanitary and environmental conditions at workplace.

### Section 16. Other information

### **History**

Date of previous issue : 10/11/2022

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

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.

English (US) Chile 12/12