

# SAFETY DATA SHEET



The information in this Safety Data Sheet is required pursuant to GHS UN rev. 7

Date of issue/Date of revision 15 January 2026

Version 1.03

## Section 1. Identification

**Product code** : 000001114907  
**Product name** : STEELGUARD 651 WHITE  
**Product type** : Liquid.  
**Other means of identification**  
00359402; 00434337 ; 00467243

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

**Product use** : Coating.  
Professional applications, Used by spraying, Application by non spray methods.

### Identified uses

Professional painting, indoor brush/roller  
Professional painting, outdoor brush/roller  
Professional spray painting, near-industrial setting  
Professional non-spray painting, near-industrial setting

**Uses advised against** : Product is not intended, labelled or packaged for consumer use.

**Company/undertaking identification** : PPG Industries Sales, Inc. and PPG Coatings (Philippines), Inc.  
3rd Floor First Life Center  
174 Salcedo St., Legaspi Village  
Makati City 1229, Philippines  
Tel # 00632- 752-6773/ Fax # 00632-752-6771

**Emergency telephone number** : CHEMTREC +(63) 2-395-3308 (CCN 17704)

## Section 2. Hazards identification

**Classification of the substance or mixture** : CARCINOGENICITY - Category 2  
TOXIC TO REPRODUCTION - Category 2  
AQUATIC HAZARD (ACUTE) - Category 3  
AQUATIC HAZARD (LONG-TERM) - Category 3  
Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 19.4%

### GHS label elements

**Hazard pictograms** :



**Signal word** : Warning

**Hazard statements** : Suspected of causing cancer.  
Suspected of damaging fertility or the unborn child.  
Harmful to aquatic life with long lasting effects.

## Section 2. Hazards identification

### Precautionary statements

- Prevention** : Obtain, read and follow all safety instructions before use. Wear protective gloves, protective clothing, eye protection, face protection, or hearing protection. Avoid release to the environment.
- Response** : IF exposed or concerned, get medical advice.
- Storage** : Store locked up.
- 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

### CAS number/other identifiers

**CAS number** : Not applicable.

| <b><u>Ingredient name</u></b>                                   | <b><u>%</u></b> | <b><u>CAS number</u></b> |
|-----------------------------------------------------------------|-----------------|--------------------------|
| Polyphosphoric acids, ammonium salts                            | 25 - <50        | 68333-79-9               |
| melamine                                                        | 5 - <10         | 108-78-1                 |
| isobutyric acid, monoester with 2,2,4-trimethylpentane-1,3-diol | 1 - <3          | 25265-77-4               |
| octhlinone (ISO)                                                | <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 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.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

- Eye contact** : No specific data.

## Section 4. First aid measures

- 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

### Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : 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.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

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  
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, 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".

## Section 6. Accidental release measures

**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

**Protective measures** : 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.

**Advice on general occupational hygiene** : 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. See also Section 8 for additional information on hygiene measures.

**Conditions for safe storage, including any incompatibilities** : Store between the following temperatures: 5 to 35°C (41 to 95°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

 titanium dioxide

pentaerythritol

**TLV (Philippines, 4/2016)**

TLV 8 hours: 15 mg/m<sup>3</sup>.

**ACGIH TLV (United States, 1/2025)**

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

## Section 8. Exposure controls/personal protection

**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/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

### Skin protection

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**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** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### Appearance

**Physical state** : Liquid.

**Color** : White.

**Odor** : Not available.

**Odor threshold** : Not available.

**Melting point/freezing point** : Not available.

## Section 9. Physical and chemical properties

**Boiling point or initial boiling point and boiling range** : >37.78°C (>100°F)

**Flammability** : Not available.

**Lower and upper explosive (flammable) limits** : Not available.

**Flash point** : Closed cup: Not applicable.

| <b>Auto-ignition temperature</b> | <b>Ingredient name</b>                                          | <b>°C</b> | <b>°F</b> | <b>Method</b> |
|----------------------------------|-----------------------------------------------------------------|-----------|-----------|---------------|
|                                  | isobutyric acid, monoester with 2,2,4-trimethylpentane-1,3-diol | 393       | 739.4     |               |

**Decomposition temperature** : Not available.

**pH** : Not available.

**Viscosity** : Dynamic (room temperature): Not available.  
Kinematic (room temperature): Not available.  
Kinematic (40°C): >21 mm<sup>2</sup>/s

**Viscosity** : > 100 s (ISO 6mm)

| <b>Solubility(ies)</b> | <b>Media</b> | <b>Result</b>     |
|------------------------|--------------|-------------------|
|                        | cold water   | Partially soluble |

**Partition coefficient: n-octanol/water** : Not applicable.

| <b>Vapor pressure</b>                                                                     | <b>Vapor Pressure at 20°C</b> |            |               | <b>Vapor pressure at 50°C</b> |            |               |
|-------------------------------------------------------------------------------------------|-------------------------------|------------|---------------|-------------------------------|------------|---------------|
| <b>Ingredient name</b>                                                                    | <b>mm Hg</b>                  | <b>kPa</b> | <b>Method</b> | <b>mm Hg</b>                  | <b>kPa</b> | <b>Method</b> |
|  water | 17.5                          | 2.3        |               |                               |            |               |

**Relative density** : 1.41

**Relative vapor density** : Not available.

### Particle characteristics

**Median particle size** : Not applicable.

**Evaporation rate** : Not available.

## 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 metal oxide/oxides

## Section 10. Stability and reactivity

**Hazardous polymerization** : Under normal conditions of storage and use, hazardous polymerization will not occur.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

| Product/ingredient name                                         | Result                          | Species | Dose                    | Exposure |
|-----------------------------------------------------------------|---------------------------------|---------|-------------------------|----------|
| Polyphosphoric acids, ammonium salts<br>melamine                | LD50 Oral                       | Rat     | 4.74 g/kg               | -        |
|                                                                 | LC50 Inhalation Dusts and mists | Rat     | >5190 mg/m <sup>3</sup> | 4 hours  |
|                                                                 | LD50 Oral                       | Rat     | 3161 mg/kg              | -        |
|                                                                 | LD50 Dermal                     | Rabbit  | >15.2 g/kg              | -        |
| isobutyric acid, monoester 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** : There are no data available on the mixture itself.

#### Irritation/Corrosion

##### 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

| Product/ingredient name | Route of exposure | Species | Result      |
|-------------------------|-------------------|---------|-------------|
| octhilinone (ISO)       | skin              | Mouse   | Sensitizing |

##### Conclusion/Summary

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

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

#### Mutagenicity

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

#### Carcinogenicity

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

#### Reproductive toxicity

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

#### Teratogenicity

**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)



## Section 11. Toxicological information

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

### Aspiration hazard

Not available.

**Information on the likely routes of exposure** : Not available.

### Potential acute health effects

**Eye contact** : No known significant effects or critical hazards.  
**Inhalation** : No known significant effects or critical hazards.  
**Skin contact** : 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  
**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

#### Short term exposure

**Potential immediate effects** : Not available.  
**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.  
**Potential delayed effects** : Not available.

### 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** : Suspected of damaging fertility or the unborn child.



## Section 11. Toxicological information

### Numerical measures of toxicity

#### Acute toxicity estimates

| Route | ATE value      |
|-------|----------------|
| Oral  | 11358.22 mg/kg |

#### Other information :

Contains isothiazolinones. May cause allergic reaction.

## Section 12. Ecological information

### Toxicity

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

### Persistence and degradability

| Product/ingredient name                                         | Test      | Result                    | Dose | Inoculum |
|-----------------------------------------------------------------|-----------|---------------------------|------|----------|
| isobutyric acid, monoester with 2,2,4-trimethylpentane-1,3-diol | OECD 301B | >76 % - Readily - 28 days | -    | -        |

  

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

### Bioaccumulative potential

| Product/ingredient name                                         | LogP <sub>ow</sub> | BCF | Potential |
|-----------------------------------------------------------------|--------------------|-----|-----------|
| melamine                                                        | -1.22              | 3.8 | Low       |
| isobutyric acid, monoester with 2,2,4-trimethylpentane-1,3-diol | 3.2                | -   | Low       |
| octhiline (ISO)                                                 | 2.45               | -   | Low       |

### Mobility in soil

**Soil/Water partition coefficient** : 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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

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

### Additional information

UN : None identified.

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.

**Transport in bulk according to IMO instruments** : Not applicable.

## Section 15. Regulatory information

### International regulations

#### Montreal Protocol

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

Section 16. Other information

History

- Date of issue/Date of revision** : 15 January 2026
- Date of previous issue** : 4/28/2025
- Version** : 1.03
- Prepared by** : EHS
- Key to abbreviations** :
  - ATE = Acute Toxicity Estimate
  - BCF = Bioconcentration Factor
  - GHS = Globally Harmonized System of Classification and Labelling of Chemicals
  - IATA = International Air Transport Association
  - IBC = Intermediate Bulk Container
  - 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)
  - UN = United Nations

Procedure used to derive the classification

| Classification                          | Justification      |
|-----------------------------------------|--------------------|
| CARCINOGENICITY - Category 2            | Calculation method |
| TOXIC TO REPRODUCTION - Category 2      | Calculation method |
| AQUATIC HAZARD (ACUTE) - Category 3     | Calculation method |
| AQUATIC HAZARD (LONG-TERM) - Category 3 | Calculation method |

Indicates information that has changed from previously issued version.

Notice to reader

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 us, 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.