Section 1. Identification

Product name: PSX 700A RAL 6021 RESIN
Product code: 00291660
Other means of identification: Not available.
Product type: Liquid.

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

Product use: Professional applications, Used by spraying.
Use of the substance/mixture: Coating.
Uses advised against: Not applicable.

Supplier: PPG Canada Inc.
5676 Timberlea Blvd
Mississauga ON L4W 4M6
Canada
+1 905-629-7999

PPG Industries, Inc.
One PPG Place
Pittsburgh, PA 15272

Emergency telephone number: (412) 434-4515 (U.S.)
(514) 645-1320 (Canada)
01-800-00-21-400 or + 52 55 5559 1588 (Mexico)

Technical Phone Number: 888-977-4762

Section 2. Hazard identification

Classification of the substance or mixture:
FLAMMABLE LIQUIDS - Category 4
SKIN SENSITIZATION - Category 1B
CARCINOGENICITY - Category 1
TOXIC TO REPRODUCTION (Unborn child) - Category 2

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
### Section 2. Hazard identification

**Signal word**: Danger

**Hazard statements**: Combustible liquid. May cause an allergic skin reaction. May cause cancer. Suspected of damaging the unborn child.

**Precautionary statements**

**Prevention**: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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. Avoid breathing vapor. Contaminated work clothing should not be allowed out of the workplace.

**Response**: IF exposed or concerned: Get medical attention. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical attention.

**Storage**: Store locked up.

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

**Supplemental label elements**: Sanding and grinding dusts may be harmful if inhaled. This product contains crystalline silica which can cause lung cancer or silicosis. The risk of cancer depends on the duration and level of exposure to dust from sanding surfaces or mist from spray applications. Trimethoxysilanes are capable of forming methanol if hydrolyzed or ingested. If swallowed, methanol may be harmful or fatal or cause blindness. Emits toxic fumes when heated.

Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 60.9% (Oral), 92.4% (Dermal), 92.4% (Inhalation)

### Section 3. Composition/information on ingredients

**Substance/mixture**: Mixture

**Product name**: PSX 700A RAL 6021 RESIN

**Other means of identification**: Not available.

#### CAS number/other identifiers

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Synonyms</th>
<th>% (w/w)</th>
<th>CAS number</th>
</tr>
</thead>
<tbody>
<tr>
<td>barium sulfate</td>
<td>Not available.</td>
<td>10 - 30*</td>
<td>7727-43-7</td>
</tr>
<tr>
<td>4,4’-Isopropylidenedicyclohexanol, oligomeric</td>
<td>Not available.</td>
<td>10 - 30*</td>
<td>30583-72-3</td>
</tr>
<tr>
<td>reaction products with 1-chloro-2,3-epoxypropane</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>titanium dioxide</td>
<td>Not available.</td>
<td>1 - 5*</td>
<td>13463-67-7</td>
</tr>
<tr>
<td>bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate</td>
<td>Not available.</td>
<td>0.5 - 1.5*</td>
<td>41556-26-7</td>
</tr>
<tr>
<td>chrome antimony titanium buff rutile</td>
<td>Not available.</td>
<td>0.5 - 1.5*</td>
<td>68186-90-3</td>
</tr>
<tr>
<td>toluene</td>
<td>Not available.</td>
<td>0.1 - 1*</td>
<td>108-88-3</td>
</tr>
<tr>
<td>crystalline silica, respirable powder (&lt;10 microns)</td>
<td>Not available.</td>
<td>0.1 - 1*</td>
<td>14808-60-7</td>
</tr>
</tbody>
</table>

*Any concentration shown as a range is to protect confidentiality.*
Section 3. Composition/information on ingredients

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.

Section 4. First-aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

Description of necessary first aid measures

<table>
<thead>
<tr>
<th>Eye contact</th>
<th>Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>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.</td>
</tr>
<tr>
<td>Skin contact</td>
<td>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.</td>
</tr>
</tbody>
</table>

Most important symptoms/effects, acute and delayed

Potential acute health effects

<table>
<thead>
<tr>
<th>Eye contact</th>
<th>No known significant effects or critical hazards.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Skin contact</td>
<td>May cause an allergic skin reaction.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

Over-exposure signs/symptoms

<table>
<thead>
<tr>
<th>Eye contact</th>
<th>No specific data.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>Adverse symptoms may include the following: reduced fetal weight, increase in fetal deaths, skeletal malformations</td>
</tr>
<tr>
<td>Skin contact</td>
<td>Adverse symptoms may include the following: irritation, redness, reduced fetal weight, increase in fetal deaths, skeletal malformations</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Adverse symptoms may include the following: reduced fetal weight, increase in fetal deaths, skeletal malformations</td>
</tr>
</tbody>
</table>

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.
Section 4. First-aid measures

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.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media: Use dry chemical, CO₂, water spray (fog) or foam.

Unsuitable extinguishing media: Do not use water jet.

Specific hazards arising from the chemical: Combustible liquid. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.

Hazardous thermal decomposition products: Decomposition products may include the following materials:
- Carbon oxides
- Nitrogen oxides
- Sulfur oxides
- Halogenated compounds
- Metal oxide/oxides

Special protective actions for fire-fighters: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

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).

Methods and materials for containment and cleaning up
Section 6. Accidental release measures

Small spill
Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill
Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures
Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. 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. 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 only non-sparking tools. Empty containers retain product residue and can be hazardous. Do not reuse container.

Special precautions
Ingestion of product or cured coating may be harmful. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.

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: 0 to 35°C (32 to 95°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. 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.
### Section 8. Exposure controls/personal protection

#### Control parameters

#### Occupational exposure limits

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Exposure limits</th>
</tr>
</thead>
</table>
| **barium sulfate** | CA Ontario Provincial (Canada, 1/2018). TWA: 5 mg/m³ 8 hours. Form: Inhalable fraction.  
CA British Columbia Provincial (Canada, 6/2017). TWA: 3 mg/m³ 8 hours. Form: Respirable dust.  
CA Quebec Provincial (Canada, 1/2014). TWAEV: 5 mg/m³ 8 hours. Form: Respirable dust.  
CA Alberta Provincial (Canada, 4/2009). 8 hrs OEL: 10 mg/m³ 8 hours. |
| **4,4'-Isopropylidenedicyclohexanol, oligomeric reaction products with 1-chloro-2,3-epoxypropane** | None.  
CA British Columbia Provincial (Canada, 6/2017). TWA: 3 mg/m³ 8 hours. Form: Respirable dust.  
CA Quebec Provincial (Canada, 1/2014). TWAEV: 10 mg/m³ 8 hours. Form: Total dust.  
CA Alberta Provincial (Canada, 4/2009). Skin sensitizer. 8 hrs OEL: 10 mg/m³ 8 hours. |
| **titanium dioxide** | CA Ontario Provincial (Canada, 1/2018). TWA: 10 mg/m³ 8 hours. Form: total dust.  
CA British Columbia Provincial (Canada, 6/2017). TWA: 10 mg/m³ 8 hours. Form: Total dust.  
CA Quebec Provincial (Canada, 1/2014). TWAEV: 10 mg/m³ 8 hours. Form: Total dust.  
CA Alberta Provincial (Canada, 4/2009). 8 hrs OEL: 10 mg/m³ 8 hours. |
| **bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate** | None.  
CA Alberta Provincial (Canada, 4/2009). 8 hrs OEL: 0.5 mg/m³, (as Sb) 8 hours.  
CA British Columbia Provincial (Canada, 6/2017). TWA: 0.5 mg/m³, (as Sb) 8 hours.  
CA Quebec Provincial (Canada, 1/2014). TWAEV: 0.5 mg/m³, (as Sb) 8 hours.  
CA Ontario Provincial (Canada, 1/2018). TWA: 0.5 mg/m³, (as Sb) 8 hours.  
CA Saskatchewan Provincial (Canada, 7/2013). TWA: 0.5 mg/m³, (as Sb) 8 hours.  
CA Saskatchewan Provincial (Canada, 7/2013). |
| **chrome antimony titanium buff rutile** | CA Ontario Provincial (Canada, 1/2018). TWA: 10 mg/m³ 8 hours. Form: total dust.  
CA British Columbia Provincial (Canada, 6/2017). TWA: 0.5 mg/m³, (as Sb) 8 hours.  
CA Quebec Provincial (Canada, 1/2014). TWAEV: 0.5 mg/m³, (as Sb) 8 hours.  
CA Ontario Provincial (Canada, 1/2018). TWA: 0.5 mg/m³, (as Sb) 8 hours.  
CA Saskatchewan Provincial (Canada, 7/2013). TWA: 0.5 mg/m³, (as Sb) 8 hours.  
CA Saskatchewan Provincial (Canada, 7/2013). |

---

**Note:** The above table represents the occupational exposure limits for various ingredients as per the guidelines of different provincial agencies in Canada.
### Section 8. Exposure controls/personal protection

<table>
<thead>
<tr>
<th>Substance</th>
<th>STEL: 1.5 mg/m³, (measured as Sb) 15 minutes.</th>
<th>TWA: 0.5 mg/m³, (measured as Sb) 8 hours.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>CA Alberta Provincial (Canada, 4/2009).</strong> Absorbed through skin.</td>
<td>8 hrs OEL: 188 mg/m³ 8 hours.</td>
</tr>
<tr>
<td>toluene</td>
<td><strong>CA British Columbia Provincial (Canada, 6/2017).</strong></td>
<td>8 hrs OEL: 50 ppm 8 hours.</td>
</tr>
<tr>
<td></td>
<td><strong>CA Ontario Provincial (Canada, 1/2018).</strong></td>
<td>TWA: 20 ppm 8 hours.</td>
</tr>
<tr>
<td></td>
<td><strong>CA Quebec Provincial (Canada, 1/2014).</strong> Absorbed through skin.</td>
<td>TWA: 20 ppm 8 hours.</td>
</tr>
<tr>
<td></td>
<td><strong>CA Saskatchewan Provincial (Canada, 7/2013).</strong> Absorbed through skin.</td>
<td>TWA: 20 ppm 8 hours.</td>
</tr>
<tr>
<td>crystalline silica, respirable powder (&lt;10 microns)</td>
<td><strong>CA Alberta Provincial (Canada, 4/2009).</strong> 8 hrs OEL: 0.025 mg/m³ 8 hours. Form: Respirable</td>
<td>TWA: 0.025 mg/m³ 8 hours. Form: Respirable</td>
</tr>
<tr>
<td></td>
<td><strong>CA British Columbia Provincial (Canada, 6/2017).</strong></td>
<td>TWA: 0.025 mg/m³ 8 hours. Form: Respirable</td>
</tr>
<tr>
<td></td>
<td><strong>CA Ontario Provincial (Canada, 1/2018).</strong></td>
<td>TWA: 0.1 mg/m³ 8 hours. Form: Respirable</td>
</tr>
<tr>
<td></td>
<td><strong>CA Quebec Provincial (Canada, 1/2014).</strong></td>
<td>TWA: 0.1 mg/m³ 8 hours. Form: Respirable</td>
</tr>
<tr>
<td></td>
<td><strong>CA Saskatchewan Provincial (Canada, 7/2013).</strong></td>
<td>TWA: 0.1 mg/m³ 8 hours. Form: Respirable</td>
</tr>
<tr>
<td></td>
<td><strong>CA Alberta Provincial (Canada, 4/2009).</strong></td>
<td>8 hrs OEL: 0.025 mg/m³ 8 hours. Form: Respirable particulate</td>
</tr>
<tr>
<td></td>
<td><strong>CA Saskatchewan Provincial (Canada, 7/2013).</strong></td>
<td>TWA: 0.05 mg/m³ 8 hours. Form: respirable fraction</td>
</tr>
</tbody>
</table>

**Consult local authorities for acceptable exposure limits.**

**Recommended monitoring procedures:** If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness 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 controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Section 8. Exposure controls/personal protection

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. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

Respiratory protection

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: Various
Odor: Characteristic.
Odor threshold: Not available.
PH: Not available.
Melting point: Not available.
Boiling point: >37.78°C (>100°F)
Flash point: Closed cup: 80°C (176°F)
Material supports combustion: Yes.
Auto-ignition temperature: Not available.
Decomposition temperature: Not available.
Section 9. Physical and chemical properties

Flammability (solid, gas) : Not available.
Lower and upper explosive (flammable) limits : Not available.
Evaporation rate : Not available.
Vapor pressure : Not available.
Vapor density : Not available.
Relative density : ±1.49
Density ( lbs / gal ) : ±2.43
Solubility : Insoluble in the following materials: cold water.
Partition coefficient: n-octanol/water : Not available.
Viscosity : Kinematic (40°C (104°F)): >0.21 cm²/s (>21 cSt)
Volatility : 1% (v/v), 0.629% (w/w)
% Solid. (w/w) : 99.371

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.
Refer to protective measures listed in sections 7 and 8.
Incompatible materials : Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
Hazardous decomposition products : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>barium sulfate</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>&gt;5000 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>titanium dioxide</td>
<td>LC50 Inhalation Dusts and mists</td>
<td>Rat</td>
<td>&gt;6.82 mg/l</td>
<td>4 hours</td>
</tr>
<tr>
<td>bis(1,2,6,6-pentamethyl-4-piperidyl) sebacate</td>
<td>LD50 Dermal</td>
<td>Rabbit</td>
<td>&gt;5000 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>chrome antimony titanium buff rutile toluene</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>3.125 g/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>10 g/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>LC50 Inhalation Vapor</td>
<td>Rat</td>
<td>49 g/m³</td>
<td>4 hours</td>
</tr>
<tr>
<td></td>
<td>LD50 Dermal</td>
<td>Rabbit</td>
<td>8.39 g/kg</td>
<td>-</td>
</tr>
</tbody>
</table>
Section 11. Toxicological information

### LD50 Oral

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>OSHA</th>
<th>IARC</th>
<th>NTP</th>
</tr>
</thead>
<tbody>
<tr>
<td>titanium dioxide</td>
<td>-</td>
<td>2B</td>
<td>-</td>
</tr>
<tr>
<td>toluene</td>
<td>-</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>crystalline silica, respirable powder</td>
<td>-</td>
<td>1</td>
<td>Known to be a human carcinogen.</td>
</tr>
</tbody>
</table>

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

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)

<table>
<thead>
<tr>
<th>Name</th>
<th>Category</th>
<th>Route of exposure</th>
<th>Target organs</th>
</tr>
</thead>
<tbody>
<tr>
<td>toluene</td>
<td>Category 3</td>
<td>Not applicable.</td>
<td>Narcotic effects</td>
</tr>
</tbody>
</table>

### Specific target organ toxicity (repeated exposure)

<table>
<thead>
<tr>
<th>Name</th>
<th>Category</th>
<th>Route of exposure</th>
<th>Target organs</th>
</tr>
</thead>
<tbody>
<tr>
<td>toluene</td>
<td>Category 2</td>
<td>Not determined Inhalation</td>
<td>Not determined</td>
</tr>
<tr>
<td>crystalline silica, respirable powder (&lt;10 microns)</td>
<td>Category 1</td>
<td>Not determined</td>
<td>Not determined</td>
</tr>
</tbody>
</table>

Target organs: Contains material which causes damage to the following organs: upper respiratory tract, skin, eyes.
Contains material which may cause damage to the following organs: lungs, cardiovascular system.

### Aspiration hazard
Section 11. Toxicological information

Information on the likely routes of exposure

Potential acute health effects

Eye contact: No known significant effects or critical hazards.
Inhalation: No known significant effects or critical hazards.
Skin contact: May cause an allergic skin reaction.
Ingestion: No known significant effects or critical hazards.

Over-exposure signs/symptoms

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:
- irritation
- redness
- 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. Trimethoxysilanes are capable of forming methanol if hydrolyzed or ingested. If swallowed, methanol may be harmful or fatal or cause blindness. This product contains crystalline silica which can cause lung cancer or silicosis. The risk of cancer depends on the duration and level of exposure to dust from sanding surfaces or mist from spray applications. 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). 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.
Section 11. Toxicological information

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
General: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Carcinogenicity: May cause cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity: No known significant effects or critical hazards.

Teratogenicity: Suspected of damaging the unborn child.

Developmental effects: No known significant effects or critical hazards.

Fertility effects: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

<table>
<thead>
<tr>
<th>Route</th>
<th>ATE value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>87314.6 mg/kg</td>
</tr>
</tbody>
</table>

Section 12. Ecological information

Toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,4’-Isopropylidenedicyclohexanol, oligomeric reaction products with 1-chloro-2,3-epoxypropane titanium dioxide</td>
<td>LC50 11.5 mg/l</td>
<td>Fish</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 &gt;100 mg/l Fresh water</td>
<td>Daphnia - Daphnia magna</td>
<td>48 hours</td>
</tr>
</tbody>
</table>

Persistence and degradability

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Aquatic half-life</th>
<th>Photolysis</th>
<th>Biodegradability</th>
</tr>
</thead>
<tbody>
<tr>
<td>toluene</td>
<td>-</td>
<td>-</td>
<td>Readily</td>
</tr>
</tbody>
</table>

Bioaccumulative potential

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>LogP&lt;sub&gt;ow&lt;/sub&gt;</th>
<th>BCF</th>
<th>Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>toluene</td>
<td>2.73</td>
<td>8.32</td>
<td>low</td>
</tr>
</tbody>
</table>

Mobility in soil

<table>
<thead>
<tr>
<th>Soil/water partition coefficient (K&lt;sub&gt;oc&lt;/sub&gt;)</th>
<th>Not available.</th>
</tr>
</thead>
</table>
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.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

Section 14. Transport information

<table>
<thead>
<tr>
<th>UN number</th>
<th>TDG</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transport hazard class (es)</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Packing group</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Environmental hazards</td>
<td>No.</td>
<td>No.</td>
<td>No.</td>
</tr>
<tr>
<td>Marine pollutant substances</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

Additional information

TDG: 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.
Section 15. Regulatory information

Canada inventory (DSL) : All components are listed or exempted.

Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health : 2  *  Flammability : 2  Physical hazards : 1  
(* ) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on MSDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)

Health : 2  Flammability : 2  Instability : 1

Date of issue/Date of revision : 21 December 2018

Organization that prepared the MSDS : 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  
UN = United Nations

 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.