# **SAFETY DATA SHEET**



Date of issue/Date of revision5 September 2016Version 9

| Section 1. Identification        |   |  |
|----------------------------------|---|--|
| Product name                     | : PSX 1001 F/S 36463 GRAY   |  |
| Product code                     | : 00364471  |  |
| 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/<br>mixture | : Coating.  |  |
| Uses advised against             | : Not applicable.   |  |
| Manufacturer                     | : PPG Industries, Inc.<br>One PPG Place<br>Pittsburgh, PA 15272                 |  |
| Emergency telephone<br>number    | : (412) 434-4515 (U.S.)<br>(514) 645-1320 (Canada)<br>01-800-00-21-400 (Mexico) |  |
| Technical Phone Number           | : 888-977-4762  |  |

# Section 2. Hazards identification

| OSHA/HCS status                               | <ul> <li>This material is considered hazardous by the OSHA Hazard Communication Standard<br/>(29 CFR 1910.1200).</li> </ul>  |
|---|--|
| Classification of the<br>substance or mixture | <ul> <li>FLAMMABLE LIQUIDS - Category 2<br/>SKIN IRRITATION - Category 2<br/>EYE IRRITATION - Category 2A<br/>SKIN SENSITIZATION - Category 1<br/>CARCINOGENICITY - Category 2<br/>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (respiratory system) -<br/>Category 1<br/>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract<br/>irritation) - Category 3<br/>SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (central nervous<br/>system (CNS), hearing organs, kidneys and liver) - Category 2<br/>Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 44.5%</li> </ul> |

#### **GHS label elements**

Product name PSX 1001 F/S 36463 GRAY

# Section 2. Hazards identification

| Hazard pictograms                   |   |
|-------------------------------------|---|
|                                     |   |
| Signal word                         | : Danger  |
| Hazard statements                   | <ul> <li>Fighly flammable liquid and vapor.<br/>Causes serious eye irritation.<br/>Causes skin irritation.<br/>May cause an allergic skin reaction.<br/>Suspected of causing cancer.<br/>Causes damage to organs. (respiratory system)<br/>May cause respiratory irritation.<br/>May cause damage to organs through prolonged or repeated exposure. (central<br/>nervous system (CNS), hearing organs, kidneys, liver)</li> </ul>   |
| Precautionary statements            |   |
| Prevention                          | : Obtain special instructions before use. Do not handle until all safety precautions have<br>been read and understood. Wear protective gloves. Wear eye or face protection.<br>Wear protective clothing. Keep away from heat, hot surfaces, sparks, open flames and<br>other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting<br>and all material-handling equipment. Use only non-sparking tools. Take precautionary<br>measures against static discharge. Keep container tightly closed. Use only outdoors or<br>in a well-ventilated area. Do not breathe vapor. Do not eat, drink or smoke when using<br>this product. Wash hands thoroughly after handling. Contaminated work clothing must<br>not be allowed out of the workplace.   |
| Response                            | : Get medical attention if you feel unwell. IF exposed: Call a POISON CENTER or<br>physician. IF INHALED: Remove person to fresh air and keep comfortable for<br>breathing. Call a POISON CENTER or physician if you feel unwell. IF ON SKIN (or<br>hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.<br>IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before<br>reuse. If skin irritation or rash occurs: Get medical attention. IF IN EYES: Rinse<br>cautiously with water for several minutes. Remove contact lenses, if present and easy<br>to do. Continue rinsing. If eye irritation persists: Get medical attention.  |
| Storage                             | : Store locked up. Store in a well-ventilated place. Keep cool.   |
| Disposal                            | : Dispose of contents and container in accordance with all local, regional, national and international regulations.   |
| Supplemental label<br>elements      | : Do not taste or swallow. Trimethoxysilanes are capable of forming methanol if<br>hydrolyzed or ingested. If swallowed, methanol may be harmful or fatal or cause<br>blindness. Repeated exposure to high vapor concentrations may cause irritation of the<br>respiratory system and permanent brain and nervous system damage. Inhalation of<br>vapor/aerosol concentrations above the recommended exposure limits causes<br>headaches, drowsiness and nausea and may lead to unconsciousness or death. This<br>product either contains formaldehyde or is capable of releasing formaldehyde above 0.5<br>ppm under certain conditions. Formaldehyde is a known cancer hazard, a skin<br>sensitizer and a respiratory sensitizer. Avoid contact with skin and clothing. Wash<br>thoroughly after handling. Emits toxic fumes when heated. |
| Hazards not otherwise<br>classified | : Causes digestive tract burns. Prolonged or repeated contact may dry skin and cause irritation.  |

### Section 3. Composition/information on ingredients

#### Substance/mixture

: Mixture

Product name

: PSX 1001 F/S 36463 GRAY

| Ingredient name                             | %           | CAS number  |
|---|-------------|-------------|
| Manium dioxide                              | ≥10 - ≤20   | 13463-67-7  |
| xylene                                      | ≥10 - ≤18   | 1330-20-7   |
| Solvent naphtha (petroleum), light aromatic | ≥5.0 - ≤10  | 64742-95-6  |
| 1,2,4-trimethylbenzene                      | ≥1.0 - ≤5.0 | 95-63-6     |
| ethylbenzene                                | ≥1.0 - ≤4.5 | 100-41-4    |
| Proprietary silane                          | ≥1.0 - ≤5.0 | Proprietary |
| 3-aminopropyltriethoxysilane                | ≥1.0 - <3.0 | 919-30-2    |
| carbon black, respirable powder             | ≤1.0        | 1333-86-4   |
| cumene                                      | <1.0        | 98-82-8     |

SUB codes represent substances without registered CAS Numbers.

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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

| Eye contact            | : Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids<br>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<br>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 sympton | oms/effects, acute and delayed   |
| Potential acute health | <u>n effects</u>   |
| Eve contact            | Causas acriaus ava irritation  |

| Eye contact           | : Causes serious eye irritation.  |
|-----------------------|---|
| Inhalation            | : May cause respiratory irritation.   |
| Skin contact          | : Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction. |
| Ingestion             | : Corrosive to the digestive tract. Causes burns.                                     |
| Over-exposure signs/s | symptoms  |

Product name PSX 1001 F/S 36463 GRAY

### Section 4. First aid measures

| Eye contact                | : Adverse symptoms may include the following:<br>pain or irritation<br>watering<br>redness  |
|----------------------------|---|
| Inhalation                 | : Adverse symptoms may include the following:<br>respiratory tract irritation<br>coughing   |
| Skin contact               | : Adverse symptoms may include the following:<br>irritation<br>redness<br>dryness<br>cracking   |
| Ingestion                  | : Adverse symptoms may include the following:<br>stomach pains  |
| Indication of immediate me | dical attention and special treatment needed, if necessary  |
| Notes to physician         | <ul> <li>In case of inhalation of decomposition products in a fire, symptoms may be delayed.</li> <li>The exposed person may need to be kept under medical surveillance for 48 hours.</li> </ul>  |
| Specific treatments        | : 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. |
|                            |   |

#### See toxicological information (Section 11)

# Section 5. Fire-fighting measures

|  | -   |
|--|---|
| Extinguishing media                        |   |
| Suitable extinguishing media               | : Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.  |
| Unsuitable extinguishing media             | : Do not use water jet.   |
| Specific hazards arising from the chemical | : Highly flammable liquid and vapor. In a fire or if heated, a pressure increase will occur<br>and the container may burst, with the risk of a subsequent explosion. Vapors may<br>accumulate in low or confined areas or travel a considerable distance to a source of<br>ignition and flash back. Runoff to sewer may create fire or explosion hazard. This<br>material is harmful to aquatic life with long lasting effects. Fire water contaminated with<br>this material must be contained and prevented from being discharged to any waterway,<br>sewer or drain. |
| Hazardous thermal decomposition products   | : Decomposition products may include the following materials:<br>carbon dioxide<br>carbon monoxide<br>nitrogen oxides<br>metal oxide/oxides   |

Product name PSX 1001 F/S 36463 GRAY

### Section 5. Fire-fighting measures

| Special protective actions<br>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<br>personnel | : | No action shall be taken involving any personal risk or without suitable training.<br>Evacuate surrounding areas. Keep unnecessary and unprotected personnel from<br>entering. Do not touch or walk through spilled material. Shut off all ignition sources.<br>No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide<br>adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put<br>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

| 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<br>explosion-proof equipment. Approach release from upwind. Prevent entry into sewers,<br>water courses, basements or confined areas. Wash spillages into an effluent treatment<br>plant or proceed as follows. Contain and collect spillage with non-combustible,<br>absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in<br>container for disposal according to local regulations (see Section 13). Dispose of via a<br>licensed waste disposal contractor. Contaminated absorbent material may pose the<br>same hazard as the spilled product. Note: see Section 1 for emergency contact<br>information and Section 13 for waste disposal. |

Product name PSX 1001 F/S 36463 GRAY

### 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. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. 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. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container. |
|--|--|
| Special precautions  | : 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<br>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,<br>including any<br>incompatibilities | : Storage temperature: 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. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.   |

# Section 8. Exposure controls/personal protection

#### **Control parameters**

#### **Occupational exposure limits**

| Ingredient name  | Exposure limits                                     |
|------------------|---|
| titanium dioxide | OSHA PEL (United States, 2/2013).                   |
|                  | TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust |
|                  | ACGIH TLV (United States, 3/2015).                  |
|                  | TWA: 10 mg/m <sup>3</sup> 8 hours.                  |
| xylene           | ACGIH TLV (United States, 3/2015).                  |
| •                | STEL: 651 mg/m <sup>3</sup> 15 minutes.             |
|                  | STEL: 150 ppm 15 minutes.                           |
|                  | TWA: 434 mg/m <sup>3</sup> 8 hours.                 |
|                  | TWA: 100 ppm 8 hours.                               |
|                  | OSHA PEL (United States, 2/2013).                   |
|                  | TWA: 435 mg/m <sup>3</sup> 8 hours.                 |
| ·                | United States Page: 6/16                            |

Product name PSX 1001 F/S 36463 GRAY

### Section 8. Exposure controls/personal protection

|                                 | are controls/personal pro                     |   |  |  |
|---------------------------------|---|---|--|--|
|                                 |   | TWA: 100 ppm 8 hours.                               |  |  |
| Solvent naphtha (petroleum)     | ), light aromatic                             | None.   |  |  |
| 1,2,4-trimethylbenzene          |   | ACGIH TLV (United States, 3/2015).                  |  |  |
| , , <b>,</b>                    |   | TWA: 123 mg/m <sup>3</sup> 8 hours.                 |  |  |
|                                 |   | TWA: 25 ppm 8 hours.                                |  |  |
| ethylbenzene                    |   | ACGIH TLV (United States, 3/2015).                  |  |  |
| eurybenzene                     |   | TWA: 20 ppm 8 hours.                                |  |  |
|                                 |   |   |  |  |
|                                 |   | OSHA PEL (United States, 2/2013).                   |  |  |
|                                 |   | TWA: 435 mg/m <sup>3</sup> 8 hours.                 |  |  |
|                                 |   | TWA: 100 ppm 8 hours.                               |  |  |
| Proprietary silane              |   | None.   |  |  |
| 3-aminopropyltriethoxysilane    | e   | None.   |  |  |
| carbon black, respirable pov    | wder  | ACGIH TLV (United States, 3/2015).                  |  |  |
|                                 |   | TWA: 3 mg/m <sup>3</sup> 8 hours. Form: Inhalable   |  |  |
|                                 |   | fraction  |  |  |
|                                 |   | OSHA PEL (United States, 2/2013).                   |  |  |
|                                 |   | TWA: 3.5 mg/m <sup>3</sup> 8 hours.                 |  |  |
|                                 |   | •   |  |  |
| cumene                          |   | ACGIH TLV (United States, 3/2015).                  |  |  |
|                                 |   | TWA: 50 ppm 8 hours.                                |  |  |
|                                 |   | OSHA PEL (United States, 2/2013).                   |  |  |
|                                 |   | Absorbed through skin.                              |  |  |
|                                 |   | TWA: 245 mg/m <sup>3</sup> 8 hours.                 |  |  |
|                                 |   | TWA: 50 ppm 8 hours.                                |  |  |
|                                 | Key to abbreviations                          |   |  |  |
| A = Acceptable Maximum P        |   | S = Potential skin absorption                       |  |  |
|                                 | f Governmental Industrial Hygienists.         | SR = Respiratory sensitization                      |  |  |
| C = Ceiling Limit               |   | SS = Skin sensitization                             |  |  |
| F = Fume                        |   | STEL = Short term Exposure limit values             |  |  |
| IPEL = Internal Permissible Exp |   | TD = Total dust                                     |  |  |
| OSHA = Occupational Safety and  | d Health Administration.                      | TLV = Threshold Limit Value                         |  |  |
| R = Respirable                  |   | TWA = Time Weighted Average                         |  |  |
|                                 | 00 Subpart Z - Toxic and Hazardous Substances |   |  |  |
| Consult local authorities for   | acceptable exposure limits.                   |   |  |  |
| <b>Recommended monitoring</b>   | : If this product contains ingredients with   | h exposure limits, personal, workplace              |  |  |
| procedures                      |   | nay be required to determine the effectiveness of   |  |  |
|                                 |   | es and/or the necessity to use respiratory          |  |  |
|                                 |   | uld be made to appropriate monitoring standards.    |  |  |
|                                 |   | nents for methods for the determination of          |  |  |
|                                 | 0   |   |  |  |
|                                 | hazardous substances will also be req         | uired.  |  |  |
|                                 |   |   |  |  |
| Appropriate engineering         |   | se process enclosures, local exhaust ventilation or |  |  |
| controls                        |   | rker exposure to airborne contaminants below any    |  |  |
|                                 |   | engineering controls also need to keep gas,         |  |  |
|                                 | vapor or dust concentrations below an         | y lower explosive limits. Use explosion-proof       |  |  |
|                                 | ventilation equipment.                        |   |  |  |
| Environmental exposure          |   | cess equipment should be checked to ensure          |  |  |

**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

Product name PSX 1001 F/S 36463 GRAY

# Section 8. Exposure controls/personal protection

| Hygiene measures                       | : Wash hands, forearms and face thoroughly after handling chemical products, before<br>eating, smoking and using the lavatory and at the end of the working period.<br>Appropriate techniques should be used to remove potentially contaminated clothing.<br>Contaminated work clothing should not be allowed out of the workplace. Wash<br>contaminated clothing before reusing. Ensure that eyewash stations and safety<br>showers are close to the workstation location.  |
|--|--|
| Eye/face protection<br>Skin protection | : Chemical splash goggles.   |
| Hand protection                        | : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. |
| Gloves                                 | : butyl rubber   |
| Body protection                        | : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.  |
| Other skin protection                  | : 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

| <u>Appearance</u>                            |                                |
|--|--------------------------------|
| Physical state                               | : Liquid.                      |
| Color  | : Gray.                        |
| Odor   | : Characteristic.              |
| Odor threshold                               | : Not available.               |
| рН   | : Not available.               |
| Melting point                                | : Not available.               |
| Boiling point                                | : >37.78°C (>100°F)            |
| Flash point                                  | : Closed cup: 18.89°C (66°F)   |
| Material supports combustion.                | : Yes.                         |
| Auto-ignition temperature                    | : Not available.               |
| Decomposition temperature                    | : Not available.               |
| Flammability (solid, gas)                    | : Not available.               |
| Lower and upper explosive (flammable) limits | : Lower: 0.95%<br>Upper: 4.22% |

# Section 9. Physical and chemical properties

| Evaporation rate                           | : Not available.   |
|--|--|
| Vapor pressure                             | : Not available.   |
| Vapor density                              | : Not available.   |
| Relative density                           | : 1.27   |
| Density(lbs / gal)                         | : 10.6   |
| Solubility                                 | : Insoluble in the following materials: cold water.            |
| Partition coefficient: n-<br>octanol/water | : Not available.   |
| Viscosity                                  | : Kinematic (40°C (104°F)): >0.21 cm <sup>2</sup> /s (>21 cSt) |
| Volatility                                 | : 40% (v/v), 27.492% (w/w)                                     |
| % Solid. (w/w)                             | : 72.508   |

# 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.<br>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

| Product/ingredient name                     | Result                | Species | Dose                    | Exposure   |
|---|-----------------------|---------|-------------------------|------------|
| titanium dioxide                            | LD50 Oral             | Rat     | >11 g/kg                | -          |
| xylene                                      | LC50 Inhalation Gas.  | Rat     | 6670 ppm                | 4 hours    |
| 2   | LC50 Inhalation Vapor | Rat     | 5000 ppm                | 4 hours    |
|   | LD50 Dermal           | Rabbit  | >1.7 g/kg               | -          |
|   | LD50 Oral             | Rat     | 4.3 g/kg                | -          |
| Solvent naphtha (petroleum), light aromatic | LD50 Dermal           | Rabbit  | 3.48 g/kg               | -          |
| 9   | LD50 Oral             | Rat     | 8400 mg/kg              | -          |
| 1,2,4-trimethylbenzene                      | LC50 Inhalation Vapor | Rat     | 18000 mg/m <sup>3</sup> | 4 hours    |
| , , <b>,</b>                                | LD50 Oral             | Rat     | 5 g/kg                  | -          |
| ethylbenzene                                | LC50 Inhalation Vapor | Rat     | 4000 ppm                | 4 hours    |
|   |                       |         | United States           | Page: 9/16 |

Product name PSX 1001 F/S 36463 GRAY

# Section 11. Toxicological information

| LD50 Dermal           | Rabbit   | 17.8 g/kg   | -  |
|-----------------------|--|---|--|
| LD50 Oral             | Rat  | 3.5 g/kg  | -  |
| LC50 Inhalation Vapor | Rat  | >21350 mg/m <sup>3</sup>  | 4 hours  |
| LD50 Dermal           | Rabbit   | 4 g/kg  | -  |
| LD50 Oral             | Rat  | 1.57 g/kg   | -  |
| LD50 Dermal           | Rabbit   | >3 g/kg   | -  |
|                       |  |   |  |
| LD50 Oral             | Rat  | >15400 mg/kg  | -  |
| LC50 Inhalation Vapor | Rat  | 39000 mg/m <sup>3</sup>   | 4 hours  |
| LD50 Dermal           | Rabbit   | 12.3 g/kg   | -  |
| LD50 Oral             | Rat  | 1400 mg/kg  | -  |
|                       | LD50 Oral<br>LC50 Inhalation Vapor<br>LD50 Dermal<br>LD50 Oral<br>LD50 Dermal<br>LD50 Oral<br>LC50 Inhalation Vapor<br>LD50 Dermal | LD50 OralRatLC50 Inhalation VaporRatLD50 DermalRabbitLD50 OralRatLD50 DermalRatLD50 OralRatLD50 OralRatLD50 OralRatLD50 OralRatLD50 OralRatLD50 OralRatLD50 OralRatLD50 DermalRatLD50 DermalRat | LD50 OralRat3.5 g/kgLC50 Inhalation VaporRat>21350 mg/m³LD50 DermalRabbit4 g/kgLD50 OralRat1.57 g/kgLD50 DermalRat>3 g/kgLD50 OralRat>3 g/kgLD50 OralRat>15400 mg/kgLC50 Inhalation VaporRat39000 mg/m³LD50 DermalRat39000 mg/m³ |

Conclusion/Summary

: There are no data available on the mixture itself.

#### Irritation/Corrosion

| Product/ingredient name | Result                   | Species | Score | Exposure     | Observation |
|-------------------------|--------------------------|---------|-------|--------------|-------------|
| xylene                  | Skin - Moderate irritant | Rabbit  | -     | 24 hours 500 | -           |
|                         |                          |         |       | mg           |             |

| Conclusion/Summary    |           |              |                                 |
|-----------------------|-----------|--------------|---------------------------------|
| Skin :                | There are | e no data av | vailable on the mixture itself. |
| Eyes :                | There are | e no data av | vailable on the mixture itself. |
| Respiratory :         | There are | e no data av | vailable on the mixture itself. |
| Sensitization         |           |              |                                 |
| Conclusion/Summary    |           |              |                                 |
| Skin :                | There are | e no data av | vailable on the mixture itself. |
| Respiratory :         | There are | e no data av | vailable on the mixture itself. |
| <u>Mutagenicity</u>   |           |              |                                 |
| Conclusion/Summary :  | There are | e no data av | vailable on the mixture itself. |
| Carcinogenicity       |           |              |                                 |
| Conclusion/Summary :  | There are | e no data av | vailable on the mixture itself. |
| <b>Classification</b> |           |              |                                 |
|                       |           |              |                                 |

| Product/ingredient name  | OSHA | IARC | NTP  |
|--------------------------|------|------|--|
| titanium dioxide         | -    | 2B   | -  |
| xylene                   | -    | 3    | -  |
| ethylbenzene             | -    | 2B   | -  |
| carbon black, respirable | -    | 2B   | -  |
| powder                   |      |      |  |
| cumene                   | -    | 2B   | Reasonably anticipated to be a human carcinogen. |

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: -

|                       |  | <b>United States</b> | Page: 10/16 |
|-----------------------|--|----------------------|-------------|
| Conclusion/Summary    | : There are no data available on the mixture itself. |                      |             |
| <b>Teratogenicity</b> |  |                      |             |
| Conclusion/Summary    | : There are no data available on the mixture itself. |                      |             |
| Reproductive toxicity |  |                      |             |

### Section 11. Toxicological information

#### Specific target organ toxicity (single exposure)

| Name  | Category   |
|---|------------|
| xylene                                      | Category 3 |
| Solvent naphtha (petroleum), light aromatic | Category 3 |
| 1,2,4-trimethylbenzene                      | Category 3 |
| 3-aminopropyltriethoxysilane                | Category 1 |
| cumene                                      | Category 3 |

#### Specific target organ toxicity (repeated exposure)

| Name                             | Category   |
|----------------------------------|--|
| xylene<br>ethylbenzene<br>cumene | Category 2<br>Category 2<br>Category 2                                       |
| Target ergene                    | Contains material which sources domage to the following organs: brain, upper |

Target organs

: Contains material which causes damage to the following organs: brain, upper respiratory tract, skin, central nervous system (CNS). Contains material which may cause damage to the following organs: blood, kidneys, lungs, the nervous system, liver, gastrointestinal tract, ears, eye, lens or cornea.

#### Aspiration hazard

| Name  | Result                         |
|---|--------------------------------|
| xylene                                      | ASPIRATION HAZARD - Category 1 |
| Solvent naphtha (petroleum), light aromatic | ASPIRATION HAZARD - Category 1 |
| ethylbenzene                                | ASPIRATION HAZARD - Category 1 |
| cumene                                      | ASPIRATION HAZARD - Category 1 |

#### Information on the likely routes of exposure

#### Potential acute health effects

| Eye contact                 | : Causes serious eye irritation.  |
|-----------------------------|---|
| Inhalation                  | : May cause respiratory irritation.   |
| Skin contact                | : Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.         |
| Ingestion                   | : Corrosive to the digestive tract. Causes burns.   |
| <u> Over-exposure signs</u> | /symptoms   |
| Eye contact                 | : Adverse symptoms may include the following:<br>pain or irritation<br>watering<br>redness    |
| Inhalation                  | : Adverse symptoms may include the following:<br>respiratory tract irritation<br>coughing     |
| Skin contact                | : Adverse symptoms may include the following:<br>irritation<br>redness<br>dryness<br>cracking |
| Ingestion                   | : Adverse symptoms may include the following:<br>stomach pains                                |
| elaved and immediat         | e effects and also chronic effects from short and long term exposure                          |

United States Page: 11/16

Product name PSX 1001 F/S 36463 GRAY

# Section 11. Toxicological information

| Conclusion/Summary             | forming methanol if hydrolyzed or inges<br>fatal or cause blindness. This product<br>releasing formaldehyde above 0.5 ppm<br>known cancer hazard, a skin sensitizer<br>component solvent vapor concentration<br>limit may result in adverse health effect<br>system irritation and adverse effects or<br>Symptoms and signs include headached<br>drowsiness and, in extreme cases, loss<br>of the above effects by absorption thro<br>repeated exposure to organic solvent v<br>can cause greater hearing loss than ex-<br>splashed in the eyes, the liquid may ca-<br>may cause nausea, diarrhea and vomit<br>delayed and immediate effects and als | ture itself. Trimethoxysilanes are capable of<br>sted. If swallowed, methanol may be harmful or<br>either contains formaldehyde or is capable of<br>n under certain conditions. Formaldehyde is a<br>r and a respiratory sensitizer. Exposure to<br>ns in excess of the stated occupational exposure<br>ts such as mucous membrane and respiratory<br>in the kidneys, liver and central nervous system.<br>e, dizziness, fatigue, muscular weakness,<br>s of consciousness. Solvents may cause some<br>ugh the skin. There is some evidence that<br>vapors in combination with constant loud noise<br>spected from exposure to noise alone. If<br>nuse irritation and reversible damage. Ingestion<br>ting. This takes into account, where known,<br>o chronic effects of components from short-term<br>tion and dermal routes of exposure and eye |  |
|--------------------------------|--|--|--|
| <u>Short term exposure</u>     |  |  |  |
| Potential immediate            | : There are no data available on the mix   | ture itself.   |  |
| effects                        |  |  |  |
| Potential delayed effects      | : There are no data available on the mix   | ture 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 mix   | ture itself.   |  |
| Potential chronic health effec | <u>ts</u>  |  |  |
| General                        | repeated contact can defat the skin an   | prolonged or repeated exposure. Prolonged or<br>d lead to irritation, cracking and/or dermatitis.<br>tion may occur when subsequently exposed to   |  |
| Carcinogenicity                | Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.   |  |  |
| Mutagenicity                   | No known significant effects or critical hazards.  |  |  |
| Teratogenicity                 | : No known significant effects or critical   | No known significant effects or critical hazards.  |  |
| Developmental effects          | No known significant effects or critical hazards.  |  |  |
| -                              | : No known significant effects or critical hazards.  |  |  |
| Numerical measures of toxicit  | Ϋ́   |  |  |
| Acute toxicity estimates       |  |  |  |
| Route                          |  | ATE value  |  |
| Øral                           |  | 9224.4 mg/kg   |  |
| Dermal                         | 3759.9 mg/kg   |  |  |
| Inhalation (gases)             | 26991.2 ppm  |  |  |
| Inhalation (vapors)            |  | 33.33 mg/l   |  |

| United States | Page: 12/16 |
|---------------|-------------|

### Section 12. Ecological information

#### **Toxicity**

| Product/ingredient name          | Result                                 | Species  | Exposure             |
|----------------------------------|--|--|----------------------|
| titanium dioxide<br>ethylbenzene | Acute LC50 150 to 200 mg/l Fresh water | Daphnia - Daphnia magna<br>Fish - Lepomis macrochirus -<br>Young of the year | 48 hours<br>96 hours |

#### Persistence and degradability

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability   |
|-------------------------|-------------------|------------|--------------------|
| xylene<br>ethylbenzene  | -                 | -          | Readily<br>Readily |

#### **Bioaccumulative potential**

| Product/ingredient name  | LogPow                      | BCF                                   | Potential                |
|--|-----------------------------|---------------------------------------|--------------------------|
| xylene<br>1,2,4-trimethylbenzene<br>ethylbenzene<br>3-aminopropyltriethoxysilane | 3.16<br>3.63<br>3.15<br>1.7 | 7.4 to 18.5<br>120.23<br>79.43<br>3.4 | low<br>low<br>low<br>low |
| cumene   | 3.66                        | 35.48                                 | low                      |

#### Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

## 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

Product name PSX 1001 F/S 36463 GRAY

### 14. Transport information

|                                | DOT                    | IMDG            | IATA            |
|--------------------------------|------------------------|-----------------|-----------------|
| UN number                      | UN1263                 | UN1263          | UN1263          |
| UN proper shipping<br>name     | PAINT                  | PAINT           | PAINT           |
| Transport hazard class<br>(es) | 3                      | 3               | 3               |
| Packing group                  | II                     | 11              | II              |
| Environmental hazards          | No.                    | No.             | No.             |
| Marine pollutant substances    | Not applicable.        | Not applicable. | Not applicable. |
| Product RQ (lbs)               | 729.77                 | Not applicable. | Not applicable. |
| RQ substances                  | (xylene, ethylbenzene) | Not applicable. | Not applicable. |

#### **Additional information**

| DOT | : Package sizes shipped in quantities less than the product reportable quantity are not subject to the |
|-----|--|
|     | RQ (reportable quantity) transportation requirements.  |

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

#### United States

United States inventory (TSCA 8b) : All components are listed or exempted.

SARA 302/304

SARA 304 RQ : Not applicable.

**Composition/information on ingredients** 

No products were found.

#### SARA 311/312

**Classification** 

: Fire hazard

Immediate (acute) health hazard Delayed (chronic) health hazard

**Composition/information on ingredients** 

### Section 15. Regulatory information

| Name  | Fire<br>hazard | Sudden<br>release of<br>pressure | Reactive | Immediate<br>(acute)<br>health<br>hazard | Delayed<br>(chronic)<br>health<br>hazard |
|---|----------------|----------------------------------|----------|--|--|
| titanium dioxide                            | No.            | No.                              | No.      | No.                                      | Yes.                                     |
| xylene                                      | Yes.           | No.                              | No.      | Yes.                                     | Yes.                                     |
| Solvent naphtha (petroleum), light aromatic | Yes.           | No.                              | No.      | Yes.                                     | No                                       |
| 1,2,4-trimethylbenzene                      | Yes.           | No.                              | No.      | Yes.                                     | No.                                      |
| ethylbenzene                                | Yes.           | No.                              | No.      | Yes.                                     | Yes.                                     |
| Proprietary silane                          | Yes.           | No.                              | No.      | Yes.                                     | No.                                      |
| 3-aminopropyltriethoxysilane                | Yes.           | No.                              | No.      | Yes.                                     | No.                                      |
| carbon black, respirable powder             | Yes.           | No.                              | No.      | No.                                      | Yes.                                     |
| cumene                                      | Yes.           | No.                              | No.      | Yes.                                     | Yes.                                     |

#### SARA 313

#### Supplier notification

| <b>Chemical</b> | name |
|-----------------|------|
| xylene          |      |

1,2,4-trimethylbenzene ethylbenzene

CAS numberConcentration1330-20-710 - 3095-63-61 - 5100-41-41 - 5

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

#### California Prop. 65

**WARNING:** This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

### Section 16. Other information

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

```
Health : 3 * Flammability : 3 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 are not required on MSDSs 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 mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)Health : 3Flammability : 3Instability : 1Date of previous issue: 5/1/2016Organization that prepared: EHSthe MSDS

Product name PSX 1001 F/S 36463 GRAY

### Section 16. Other information

| 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   |

#### 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.