



# SAFETY DATA SHEET

Issuing Date 24-May-2015

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Revision Number 0

## Section 1. Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product Code(s) 800083, 800097

Product Name PSR-4000 CC01SE, PSR-4000 CC01SE Semi-matte

Contains Quartz

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

Recommended Use Solder mask part A

Uses advised against No information available

### 1.3. Details of the supplier of the safety data sheet

#### Company

Taiyo America, Inc.  
2675 Antler Drive  
Carson City, NV 89701  
TEL: 775-885-9959

#### For further information, please contact

E-mail Address No information available.

### 1.4. Emergency telephone number

Emergency Telephone Number 011-775-461-8401

|        |     |
|--------|-----|
| Europe | 112 |
|--------|-----|

## Section 2. Hazards identification

### 2.1. - Classification of the substance or mixture

#### REGULATION (EC) No 1272/2008

The product is not classified as dangerous according to Regulation (EC) No. 1272/2008

#### Physical Hazards

|      |
|------|
| None |
|------|

#### Classification according to EU Directives 67/548/EEC or 1999/45/EC

The preparation is classified as dangerous in accordance with Directive 1999/45/EC.

Symbol(s) Xn - Harmful

R-code(s) Xn;R20/22

For the full text of the R-phrases mentioned in this Section, see Section 16

### 2.2. Label Elements

The product is not classified as dangerous according to Regulation (EC) No. 1272/2008

Signal Word None

EUH210 - Safety data sheet available on request

**Precautionary Statements - EU (§28, 1272/2008)**

P370 + P378 - In case of fire: Use carbon dioxide, alcohol-resistant foam, or water spray for extinction

**2.3. Other information**

Contains Melamine.

## Section 3. Composition/information on ingredients

**3.1. Substances**

Not applicable

**3.2. Mixtures**

| Chemical Name                                   | EC-No     | CAS-No     | Weight % | Classification  | EU - GHS Substance Classification | REACH No.         |
|---|-----------|------------|----------|-----------------|-----------------------------------|-------------------|
| Talc  | 238-877-9 | 14807-96-6 | 10-30    | -               |                                   | No data available |
| Barium sulfate                                  | Present   | 7727-43-7  | 7-13     | Xn; R20/22      |                                   | No data available |
| Quartz  | Present   | 14808-60-7 | 5-10     | -               | STOT RE 2 (H373)                  | No data available |
| Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide | Present   | 75980-60-8 | < 3      | Repr.Cat.3; R62 | Repr. 2 (H361f)                   | No data available |

**For the full text of the R-phrases mentioned in this Section, see Section 16**

**For the full text of the H-Statements mentioned in this Section, see Section 16**

## Section 4. First aid measures

**4.1. Description of first-aid measures**

|                                   |  |
|-----------------------------------|--|
| <b>Eye Contact</b>                | Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing. If symptoms persist, call a physician.      |
| <b>Skin Contact</b>               | Wash skin with soap and water. Remove and wash contaminated clothing before re-use. If symptoms persist, call a physician.                   |
| <b>Ingestion</b>                  | Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. |
| <b>Inhalation</b>                 | Move to fresh air. If symptoms persist, call a physician.  |
| <b>Protection of First-aiders</b> | Use personal protective equipment. Avoid contact with skin, eyes and clothing.   |

**4.2. Most important symptoms and effects, both acute and delayed**

**Most Important Symptoms/Effects** No information available.

**4.3. Indication of immediate medical attention and special treatment needed**

**Notes to Physician** Treat symptomatically.

## Section 5. Fire-fighting measures

**5.1. Extinguishing media**

**Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Extinguishing media which must not be used for safety reasons**

No information available.

**5.2. Special hazards arising from the substance or mixture**

**Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases**

Combustible material. Vapors may travel to source of ignition and flash back. Thermal decomposition can lead to release of irritating gases and vapors.

**5.3. Advice for firefighters**

**Special protective equipment for fire-fighters**

As in any fire, wear self-contained breathing apparatus and full protective gear.

**Section 6. Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

Keep people away from and upwind of spill/leak. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Remove all sources of ignition. Evacuate personnel to safe areas. Pay attention to flashback. Take precautionary measures against static discharges.

**6.2. Environmental precautions**

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system.

**6.3. Methods and materials for containment and cleaning up**

Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

**6.4. Reference to other sections**

See Section 12 for additional information.

**Section 7. Handling and storage**

**7.1. Precautions for Safe Handling**

**Handling**

Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Do not eat, drink or smoke when using this product. Wear personal protective equipment. Do not breathe vapors or spray mist. Remove all sources of ignition. Keep away from heat, sparks and open flame. No smoking. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).

**Hygiene Measures**

When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Keep away from food, drink and animal feeding stuffs.

**7.2. Conditions for safe storage, including any incompatibilities**

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from heat and sources of ignition.

**7.3. Specific end use(s)**

**Exposure Scenario**

No information available.

**Other Guidelines**

No information available.

**Section 8. Exposure controls/personal protection**

**8.1. Control parameters**

**Exposure Limits**

| Chemical Name                        | EU                          | The United Kingdom  | France   | Spain  | Germany   |
|--------------------------------------|-----------------------------|---|--|--|---|
| Talc<br>14807-96-6                   |                             | STEL: 3 mg/m <sup>3</sup><br>TWA: 1 mg/m <sup>3</sup>   |  | TWA: 2 mg/m <sup>3</sup>   |   |
| Barium sulfate<br>7727-43-7          |                             | STEL: 30 mg/m <sup>3</sup><br>STEL: 12 mg/m <sup>3</sup><br>TWA: 10 mg/m <sup>3</sup><br>TWA: 4 mg/m <sup>3</sup> |  | TWA: 10 mg/m <sup>3</sup>  | TWA: 4 mg/m <sup>3</sup><br>TWA: 1.5 mg/m <sup>3</sup><br>Ceiling / Peak: 4 mg/m <sup>3</sup> |
| Quartz<br>14808-60-7                 |                             | STEL: 0.3 mg/m <sup>3</sup><br>TWA: 0.1 mg/m <sup>3</sup>   | TWA: 0.1 mg/m <sup>3</sup>   | TWA: 0.1 mg/m <sup>3</sup>   |   |
| Component                            | Italy                       | Portugal  | The Netherlands  | Finland  | Denmark   |
| Talc<br>14807-96-6 ( 10-30 )         |                             | TWA: 2 mg/m <sup>3</sup>  | TWA: 0.25 mg/m <sup>3</sup>  | TWA: 0.5 fiber/cm <sup>3</sup><br>TWA: 5 mg/m <sup>3</sup>   | TWA: 0.3 fiber/cm <sup>3</sup>  |
| Barium sulfate<br>7727-43-7 ( 7-13 ) |                             | TWA: 10 mg/m <sup>3</sup>   |  |  |   |
| Quartz<br>14808-60-7 ( 5-10 )        |                             | TWA: 0.025 mg/m <sup>3</sup>  | TWA: 0.075 mg/m <sup>3</sup>   | TWA: 0.05 mg/m <sup>3</sup>  | TWA: 0.3 mg/m <sup>3</sup><br>TWA: 0.1 mg/m <sup>3</sup>                                      |
| Chemical Name                        | Austria                     | Switzerland   | Poland   | Norway   | Ireland   |
| Talc<br>14807-96-6                   | TWA: 2 mg/m <sup>3</sup>    | TWA: 2 mg/m <sup>3</sup>  | TWA: 4.0 mg/m <sup>3</sup><br>TWA: 1.0 mg/m <sup>3</sup>   | TWA: 6 mg/m <sup>3</sup><br>TWA: 2 mg/m <sup>3</sup><br>STEL: 12 mg/m <sup>3</sup><br>STEL: 4 mg/m <sup>3</sup>        | TWA: 10 mg/m <sup>3</sup><br>TWA: 0.8 mg/m <sup>3</sup>                                       |
| Barium sulfate<br>7727-43-7          |                             |   |  | TWA: 0.5 mg/m <sup>3</sup><br>STEL: 1.5 mg/m <sup>3</sup>  | TWA: 2 mg/m <sup>3</sup><br>STEL: 6 mg/m <sup>3</sup>   |
| Quartz<br>14808-60-7                 | TWA: 0.15 mg/m <sup>3</sup> | TWA: 0.15 mg/m <sup>3</sup>   | TWA: 2 mg/m <sup>3</sup><br>TWA: 0.3 mg/m <sup>3</sup><br>TWA: 4.0 mg/m <sup>3</sup><br>TWA: 1.0 mg/m <sup>3</sup> | TWA: 0.3 mg/m <sup>3</sup><br>TWA: 0.1 mg/m <sup>3</sup><br>STEL: 0.9 mg/m <sup>3</sup><br>STEL: 0.3 mg/m <sup>3</sup> | TWA: 0.1 mg/m <sup>3</sup><br>STEL: 0.3 mg/m <sup>3</sup>                                     |

**Derived No Effect Level** No information available  
**Predicted No Effect Concentration (PNEC)** No information available.

**8.2. Exposure controls**

**Engineering Measures** Ensure adequate ventilation, especially in confined areas.  
**Personal protective equipment**  
**Eye Protection** Safety glasses with side-shields.  
**Skin and Body Protection** Impervious clothing.  
**Hand Protection** Impervious gloves.  
**Respiratory Protection** When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

**Environmental Exposure Controls** No information available.

**Section 9. Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

|                                    |                   |                          |       |
|------------------------------------|-------------------|--------------------------|-------|
| <b>Physical State</b>              | Liquid            | <b>Appearance</b>        | Green |
| <b>Odor</b>                        | Organic solvent   |                          |       |
| <b>Property</b>                    | <b>Values</b>     | <b>Remarks/ - Method</b> |       |
| <b>pH</b>                          | No data available | None known               |       |
| <b>Melting Point/Range</b>         | No data available | None known               |       |
| <b>Boiling Point/Boiling Range</b> | No data available | None known               |       |
| <b>Flash Point</b>                 | 78 °C             | None known               |       |

|  |   |            |
|--|---|------------|
| Evaporation rate                       | No data available   | None known |
| Flammability (solid, gas)              | No data available   | None known |
| Vapor Pressure                         | No data available   | None known |
| Vapor Density                          | No data available   | None known |
| Relative Density                       | 1.38  | None known |
| Water Solubility                       | No data available   | None known |
| Solubility in other solvents           | No data available   | None known |
| Partition coefficient: n-octanol/water | No data available   | None known |
| Autoignition Temperature               | No data available   | None known |
| Decomposition Temperature              | No data available   | None known |
| Viscosity                              | No data available   | None known |
| Flammable Properties                   | Combustible material: may burn but does not ignite readily. |            |
| Explosive Properties                   | No data available   |            |
| Oxidizing Properties                   | No data available   |            |

**9.2. Other information**

|                            |                          |
|----------------------------|--------------------------|
| VOC Content (%)            | No information available |
| VOC (g/l)                  | 236                      |
| Flammability Limits in Air | No data available        |

**Section 10. Stability and reactivity**

**10.1. Reactivity**

No data available.

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

None under normal processing.

**10.4. Conditions to avoid**

Incompatible products. Heat, flames and sparks.

**10.5. Incompatible materials**

Strong oxidizing agents.

**10.6. Hazardous decomposition products**

Carbon oxides. Nitrogen oxides (NOx). Barium oxides Sulfur oxides.

**Section 11. Toxicological information**

**11.1. Information on toxicological effects**

**Acute Toxicity**

**Product Information**

**Inhalation**

There is no data available for this product.

**Eye Contact**

There is no data available for this product.

**Skin Contact**

There is no data available for this product.

**Ingestion**

May be harmful if swallowed.

| Chemical Name | LD50 Oral           | LD50 Dermal | LC50 Inhalation |
|---------------|---------------------|-------------|-----------------|
| Quartz        | = 500 mg/kg ( Rat ) |             |                 |

**Sensitization**

No information available.

**Mutagenic Effects**

No information available.

**Carcinogenic Effects**

No information available.

|                                 |   |
|---------------------------------|---|
| <b>Reproductive Toxicity</b>    | No information available.                                       |
| <b>Developmental Toxicity</b>   | No information available.                                       |
| <b>STOT - single exposure</b>   | No information available.                                       |
| <b>STOT - repeated exposure</b> | No information available.                                       |
| <b>Target Organ Effects</b>     | Central vascular system (CVS). Eyes. Lungs. Respiratory system. |
| <b>Aspiration Hazard</b>        | No information available.                                       |

## Section 12. Ecological information

### 12.1. Toxicity

#### Ecotoxicity Effects

Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants.

| Chemical Name | Toxicity to Algae | Toxicity to Fish  | Toxicity to Microorganisms | Daphnia Magna (Water Flea) |
|---------------|-------------------|---|----------------------------|----------------------------|
| Talc          |                   | LC50 96 h: > 100 g/L<br>semi-static (Brachydanio rerio) |                            |                            |

### 12.2. Persistence and degradability

No information available.

### 12.3. Bioaccumulative potential.

No information available.

### 12.4. Mobility in soil

Adsorbs on soil.

### 12.5. Results of PBT and vPvB assessment

No information available.

### 12.6. Other adverse effects

This product does not contain any known or suspected endocrine disruptors.

## Section 13. Disposal considerations

### 13.1. Waste treatment methods

|  |  |
|--|--|
| <b>Waste from Residues / Unused Products</b> | Dispose of in accordance with local regulations.   |
| <b>Contaminated Packaging</b>                | Empty containers should be taken to an approved waste handling site for recycling or disposal.   |
| <b>Other Information</b>                     | According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used. |

## Section 14. Transport information

**IMDG/IMO**

|  |                           |
|--|---------------------------|
| 14.1. UN-Number  | Not regulated.            |
| 14.2. Proper Shipping Name   | Not regulated.            |
| 14.3. Hazard Class   | Not regulated.            |
| 14.4. Packing Group  | Not regulated.            |
| Description  | Not applicable.           |
| 14.5. Marine Pollutant   | None.                     |
| 14.6. Special Provisions   | None.                     |
| 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | No information available. |

**RID**

|                            |                 |
|----------------------------|-----------------|
| 14.1. UN-Number            | Not regulated.  |
| 14.2. Proper Shipping Name | Not regulated.  |
| 14.3. Hazard Class         | Not regulated.  |
| 14.4. Packing Group        | Not regulated.  |
| Description                | Not applicable. |
| 14.5. Environmental hazard | None.           |
| 14.6. Special Provisions   | None.           |

**ADR**

|                            |                 |
|----------------------------|-----------------|
| 14.1. UN-Number            | Not regulated.  |
| 14.2. Proper Shipping Name | Not regulated.  |
| 14.3. Hazard Class         | Not regulated.  |
| 14.4. Packing Group        | Not regulated.  |
| Description                | Not applicable. |
| 14.5. Environmental hazard | None.           |
| 14.6. Special Provisions   | None.           |

**ICAO**

|                            |                 |
|----------------------------|-----------------|
| 14.1. UN-Number            | Not regulated.  |
| 14.2. Proper shipping name | Not regulated.  |
| 14.3. Hazard Class         | Not regulated.  |
| 14.4. Packing Group        | Not regulated.  |
| Description                | Not applicable. |
| 14.5. Environmental hazard | None.           |
| 14.6. Special Provisions   | None.           |

**IATA**

|                            |                 |
|----------------------------|-----------------|
| 14.1. UN-Number            | Not regulated.  |
| 14.2. Proper Shipping Name | Not regulated.  |
| 14.3. Hazard Class         | Not regulated.  |
| 14.4. Packing Group        | Not regulated.  |
| Description                | Not applicable. |
| 14.5. Environmental hazard | None.           |
| 14.6. Special Provisions   | None.           |

**Section 15. Regulatory information**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**International Inventories**

|               |          |
|---------------|----------|
| TSCA          | Complies |
| EINECS/ELINCS | Complies |
| DSL/NDSL      | -        |
| PICCS         | -        |
| ENCS          | -        |

---

|       |   |
|-------|---|
| IECSC | - |
| AICS  | - |
| KECL  | - |

**Legend**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

AICS - Australian Inventory of Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

**15.2. Chemical Safety Assessment**

No information available

**Section 16. Other information**

**Full text of R-phrases referred to under Sections 2 and 3**

R62 - Possible risk of impaired fertility

R20/22 - Harmful by inhalation and if swallowed

**Full text of H-Statements referred to under sections 2 and 3**

H373 - May cause damage to organs through prolonged or repeated exposure

H361f - Suspected of damaging fertility

**Key literature references and sources for data**

[www.ChemADVISOR.com/](http://www.ChemADVISOR.com/)

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Revision Note Initial Release.

This safety data sheet complies with the requirements of Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No. 1907/2006

**General Disclaimer**

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End of Safety Data Sheet