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

1.1. Product identifier
Product Code(s) 400413, 400431, 800017, 800018, 800031
Product Name PSR-9000 FXT Green, PSR-9000 FXT Amber, PSR-9000 FXT White, PSR-9000 FXT Black, PSR-9000 FXT Clear
Contains 1-Propanone, 2-methyl-1-[4-(methylthio)phenyl]-2-(4-morpholinyl)-, Naphtha (petroleum), heavy aromatic, Naphthalene

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 775-885-9959
Europe 112

Section 2. Hazards identification

2.1. Classification of the substance or mixture
REGULATION (EC) No 1272/2008
Reproductive Toxicity Category 1B
Chronic Aquatic Toxicity Category 3

Physical Hazards
None

2.2. Label Elements

Signal Word Danger
Section 3. Composition/information on ingredients

3.1. Substances
Not applicable

3.2. Mixtures

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>EC-No</th>
<th>CAS-No</th>
<th>Weight %</th>
<th>EU - GHS Substance Classification</th>
<th>REACH No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide</td>
<td>236-675-5</td>
<td>13463-67-7</td>
<td>0-20</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>1-Propanone, 2-methyl-1-[4-(methylthio)phenyl]-2-</td>
<td>Present</td>
<td>71868-10-5</td>
<td>5-10</td>
<td>Repr. 1B H360FD Acute Tox. 4 (H302) Aquatic Chronic 2 (H411)</td>
<td>No data available</td>
</tr>
<tr>
<td>(4-morpholinyl)-</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Barium sulfate</td>
<td>Present</td>
<td>7727-43-7</td>
<td>0-10</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Dipropylene glycol monoethyl ether</td>
<td>Present</td>
<td>34590-94-8</td>
<td>0.5-10</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Naphtha (petroleum), heavy aromatic</td>
<td>Present</td>
<td>64742-94-5</td>
<td>0-5</td>
<td>Asp. Tox. 1 (H304) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)</td>
<td>No data available</td>
</tr>
<tr>
<td>Naphthalene</td>
<td>Present</td>
<td>91-20-3</td>
<td>0-0.5</td>
<td>Acute Tox. 4 (H302) Carc. 2 (H351) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)</td>
<td>No data available</td>
</tr>
</tbody>
</table>

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

Eye Contact
Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing. If symptoms persist, call a physician.

Skin Contact
Wash skin with soap and water. Remove and wash contaminated clothing before re-use. If symptoms persist, call a physician.

Ingestion
Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

Inhalation
Move to fresh air. If symptoms persist, call a physician.
Protection of First-aiders

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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>EU</th>
<th>The United Kingdom</th>
<th>France</th>
<th>Spain</th>
<th>Germany</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide 13463-67-7</td>
<td></td>
<td>STEL: 30 mg/m³</td>
<td>VME: 10 mg/m³</td>
<td>VLA-ED: 10 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Barium sulfate 7727-43-7</td>
<td></td>
<td>STEL: 30 mg/m³</td>
<td>TWA: 10 mg/m³</td>
<td>TWA: 0.5 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Dipropylene glycol monomethyl ether 34590-94-8</td>
<td>S*</td>
<td>STEL: 150 ppm</td>
<td>TWA: 50 ppm</td>
<td>S*</td>
<td></td>
</tr>
<tr>
<td>Naphthalene 91-20-3</td>
<td></td>
<td>TWA 50 ppm</td>
<td>TWA: 50 ppm</td>
<td>TWA: 50 ppm</td>
<td></td>
</tr>
</tbody>
</table>

Component

<table>
<thead>
<tr>
<th>Component</th>
<th>Italy</th>
<th>Portugal</th>
<th>The Netherlands</th>
<th>Finland</th>
<th>Denmark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide 13463-67-7 (0-20)</td>
<td></td>
<td>TWA: 10 mg/m³</td>
<td></td>
<td></td>
<td>TWA: 6 mg/m³</td>
</tr>
<tr>
<td>Barium sulfate 7727-43-7 (0-10)</td>
<td></td>
<td>TWA: 10 mg/m³</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dipropylene glycol monomethyl ether 34590-94-8</td>
<td>S*</td>
<td>STEL: 150 ppm</td>
<td>TWA: 50 ppm</td>
<td>S*</td>
<td></td>
</tr>
<tr>
<td>Naphthalene 91-20-3 (0-0.5)</td>
<td></td>
<td>TWA 50 mg/m³</td>
<td>TWA: 50 mg/m³</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Chemical Name

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Austria</th>
<th>Switzerland</th>
<th>Poland</th>
<th>Norway</th>
<th>Ireland</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide 13463-67-7</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Barium sulfate 7727-43-7</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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## 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

<table>
<thead>
<tr>
<th>Physical State</th>
<th>Liquid</th>
<th>Appearance</th>
<th>Varies.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odor</td>
<td>Mild</td>
<td>Solvent</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks/- Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Melting Point/Range</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Boiling Point/Boiling Range</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Flash Point</td>
<td>86 °C</td>
<td>None known</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Relative Density</td>
<td>1.18</td>
<td>None known</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>No data available</td>
<td>None known</td>
</tr>
</tbody>
</table>
Decomposition Temperature: No data available  
Viscosity: No data available  
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 (%): 33  
VOC (g/l): 395  
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).

**Section 11. Toxicological information**

11.1. Information on toxicological effects

Acute Toxicity

<table>
<thead>
<tr>
<th>Product Information</th>
<th>LD50 Oral (mg/kg)</th>
<th>LD50 Dermal (mg/kg)</th>
<th>LC50 Inhalation (mg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Inhalation</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>&gt; 10000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dipropylene glycol monomethyl ether</td>
<td>= 5230 (Rat)</td>
<td>= 9500 (Rabbit)</td>
<td></td>
</tr>
<tr>
<td>Naphtha (petroleum), heavy aromatic</td>
<td>&gt; 5000 (Rat)</td>
<td>&gt; 2 mL (Rabbit)</td>
<td>&gt; 590 mg/m³ (Rat) 4 h</td>
</tr>
<tr>
<td>Naphthalene</td>
<td>= 1110 (Rat) = 490 (Rabbit)</td>
<td>= 1120 (Rabbit) &gt; 20 g/kg (Rabbit)</td>
<td>&gt; 340 mg/m³ (Rat) 1 h</td>
</tr>
</tbody>
</table>

Ingestion: May be harmful if swallowed.

Sensitization: No information available.

Mutagenic Effects: No information available.

Carcinogenic Effects: No information available.

Reproductive Toxicity: Contains a known or suspected reproductive toxin. May damage fertility or the unborn child.

Developmental Toxicity: No information available.

STOT - single exposure: No information available.
STOT - repeated exposure
Target Organ Effects
Central nervous system (CNS). Eyes. Lungs. Respiratory system.
Aspiration Hazard
No information available.

Table 1.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Toxicity to Algae</th>
<th>Toxicity to Fish</th>
<th>Toxicity to Microorganisms</th>
<th>Daphnia Magna (Water Flea)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dipropylene glycol monomethyl ether</td>
<td>LC50 96 h: &gt; 10000 mg/L static (Pimephales promelas)</td>
<td>LC50 96 h: = 10 mg/L static (Pimephales promelas)</td>
<td>LC50 48 h: = 1919 mg/L (Daphnia magna)</td>
<td></td>
</tr>
<tr>
<td>Naphtha (petroleum), heavy aromatic</td>
<td>EC50 72 h: = 2.5 mg/L  (Skeletonema costatum)</td>
<td>LC50 96 h: = 19 mg/L static (Pimephales promelas)</td>
<td>LC50 48 h: = 0.95 mg/L (Daphnia magna)</td>
<td></td>
</tr>
<tr>
<td>Naphthalene</td>
<td>EC50 72 h: = 0.4 mg/L  (Skeletonema costatum)</td>
<td>LC50 96 h: = 5.74 - 6.44 mg/L flow-through (Pimephales promelas)</td>
<td>LC50 48 h: = 2.16 mg/L (Daphnia magna) EC50 48 h: = 1.96 mg/L Flow through (Daphnia magna) EC50 48 h: 1.09 - 3.4 mg/L Static (Daphnia magna)</td>
<td></td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability
No information available.

12.3. Bioaccumulative potential.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dipropylene glycol monomethyl ether</td>
<td>-0.064</td>
</tr>
<tr>
<td>Naphtha (petroleum), heavy aromatic</td>
<td>2.9 - 6.1</td>
</tr>
<tr>
<td>Naphthalene</td>
<td>3.3</td>
</tr>
</tbody>
</table>

12.4. Mobility in soil
Adsorbs on soil.

12.5. Results of PBT and vPvB assessment
No information available.
12.6. Other adverse effects

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>EU - Endocrine Disrupters Candidate List</th>
<th>EU - Endocrine Disruptors - Evaluated Substances</th>
<th>Japan - Endocrine Disruptor Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naphthalene</td>
<td>Group III Chemical</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Section 13. Disposal considerations

13.1. Waste treatment methods

- **Waste from Residues / Unused Products:** Dispose of in accordance with local regulations.
- **Contaminated Packaging:** Empty containers should be taken to an approved waste handling site for recycling or disposal.

#### Other Information

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.
- **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.
### Section 15. Regulatory information

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

**International Inventories**

<table>
<thead>
<tr>
<th>Inventory</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSCA</td>
<td>Complies</td>
</tr>
<tr>
<td>EINECS/ELINCS</td>
<td>Complies</td>
</tr>
<tr>
<td>DSL/NDSL</td>
<td></td>
</tr>
<tr>
<td>PICCS</td>
<td></td>
</tr>
<tr>
<td>ENCS</td>
<td></td>
</tr>
<tr>
<td>IECSC</td>
<td></td>
</tr>
<tr>
<td>AICS</td>
<td></td>
</tr>
<tr>
<td>KECL</td>
<td></td>
</tr>
</tbody>
</table>

**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/NDSL - 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 H-Statements referred to under sections 2 and 3**

- H302 - Harmful if swallowed
- H411 - Toxic to aquatic life with long lasting effects
- H400 - Very toxic to aquatic life
- H410 - Very toxic to aquatic life with long lasting effects
- H360 - May damage fertility or the unborn child
- H360FD - May damage fertility. May damage the unborn child
- H303 - May be harmful if swallowed
- H402 - Harmful to aquatic life
- H304 - May be fatal if swallowed and enters airways
- H351 - Suspected of causing cancer

**Key literature references and sources for data**

www.ChemADVISOR.com/

**General Disclaimer**
The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet