

# SAFETY DATA SHEET

Issuing Date 13-May-2015

Revision Date 10-Jan-2023

Revision Number 1

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### GHS product identifier

Product Name PSR-4000 MP Green, PSR-4000 MP Black, PIHP-200 Part A

### Other means of identification

Product Code(s) 400425, 400429, 400031

Synonyms None

### Recommended use of the chemical and restrictions on use

Recommended Use Solder mask part A

Uses advised against No information available

### Supplier's details

#### Supplier Address

Taiyo America, Inc.  
2675 Antler Drive  
Carson City, NV 89701  
TEL: 775-885-9959 (M-F 8-4 PDT)

Email SDSinfo@taiyo-america.com

### Emergency telephone number

Emergency Telephone Number 1-800-255-3924 (USA) 1-813-248-0585 (International)

## 2. HAZARDS IDENTIFICATION

### Classification

This chemical is considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200)

|                       |             |
|-----------------------|-------------|
| Acute Oral Toxicity   | Category 4  |
| Reproductive Toxicity | Category 1B |
| Flammable liquids     | Category 4  |

### GHS Label elements, including precautionary statements

#### Emergency Overview

Signal Word Danger

#### Hazard Statements

- Harmful if swallowed
- May damage fertility or the unborn child
- Combustible liquid.

**Appearance** Green or Black**Physical State** Viscous liquid.**Odor** Mild Solvent**Precautionary Statements****Prevention**

- Wash face, hands and any exposed skin thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Use personal protective equipment as required.
- Keep away from heat/sparks/open flames/hot surfaces - No smoking.

**General Advice**

- If exposed or concerned: Get medical attention/advice

**Ingestion**

- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- Rinse mouth.

**Fire**

- In case of fire: Use CO<sub>2</sub>, dry chemical, or foam for extinction.

**Storage**

- Store locked up.
- Store in a well-ventilated place. Keep cool.

**Disposal**

- Dispose of contents/container to an approved waste disposal plant.

**Hazard Not Otherwise Classified (HNOC)**

Not applicable

**Other information****3. COMPOSITION/INFORMATION ON INGREDIENTS**

| Chemical Name  | CAS-No     | Weight % | Trade secret |
|--|------------|----------|--------------|
| Dipropylene glycol monomethyl ether                                  | 34590-94-8 | 5-10     | *            |
| 1-Propanone,<br>2-methyl-1-[4-(methylthio)phenyl]-2-(4-morpholinyl)- | 71868-10-5 | 1-5      | *            |
| Silicon dioxide  | 7631-86-9  | 0-5      | *            |
| Carbon black   | 1333-86-4  | 0-0.5    | *            |

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

**4. FIRST AID MEASURES****Description of necessary first-aid measures****General Advice**

If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing.

**Eye Contact**

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 off immediately with soap and plenty of water removing all contaminated clothes and shoes. Consult a physician if necessary. |
| <b>Inhalation</b>                 | Move to fresh air. If symptoms persist, call a physician. If breathing is difficult, give oxygen.                                 |
| <b>Ingestion</b>                  | Rinse mouth. Do NOT induce vomiting. Drink plenty of water. If symptoms persist, call a physician.                                |
| <b>Protection of First-aiders</b> | Use personal protective equipment.  |

**Most important symptoms/effects, acute and delayed****Most Important Symptoms/Effects** No information available.**Indication of immediate medical attention and special treatment needed, if necessary****Notes to Physician** Treat symptomatically.**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media**Water spray. Carbon dioxide (CO<sub>2</sub>). Dry powder. Dry chemical.**Unsuitable Extinguishing Media** No information available.**Specific Hazards Arising from the Chemical**

Combustible liquid. Vapors may travel to source of ignition and flash back. Risk of ignition In the event of fire and/or explosion do not breathe fumes. Keep product and empty container away from heat and sources of ignition.

**Explosion Data**

|   |       |
|---|-------|
| <b>Sensitivity to Mechanical Impact</b> | None. |
| <b>Sensitivity to Static Discharge</b>  | Yes.  |

**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

**Personal Precautions** Evacuate personnel to safe areas. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Remove all sources of ignition. Keep people away from and upwind of spill/leak. Take precautionary measures against static discharges. Pay attention to flashback. In case of insufficient ventilation wear suitable respiratory equipment.

**Environmental Precautions**

**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. Avoid release to the environment. See Section 12 for additional Ecological Information.

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

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for Cleaning Up** Dam up. Take up with sand, earth or other noncombustible absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly.



**Hygiene Measures** When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing. Keep away from food, drink and animal feeding stuffs. Wash hands before breaks and immediately after handling the product. Wash thoroughly after handling.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

|                       |                |                       |                          |
|-----------------------|----------------|-----------------------|--------------------------|
| <b>Physical State</b> | Viscous liquid | <b>Appearance</b>     | Green or Black           |
| <b>Odor</b>           | Mild Solvent   | <b>Odor Threshold</b> | No information available |

| <u>Property</u>                        | <u>Values</u>   | <u>Remarks/ - Method</u> |
|--|---|--------------------------|
| pH                                     | No data available   | None known               |
| Melting Point/Range                    | No data available   | None known               |
| Boiling Point/Boiling Range            | No data available   | None known               |
| Flash Point                            | 78 °C   | None known               |
| Evaporation rate                       | No data available   | None known               |
| Flammability (solid, gas)              | No data available   | None known               |
| Flammability Limits in Air             |   |                          |
| upper flammability limit               | No data available   |                          |
| lower flammability limit               | No data available   |                          |
| Vapor Pressure                         | No data available   | None known               |
| Vapor Density                          | No data available   | None known               |
| Specific Gravity                       | No data available   | 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   |                          |

### Other information

|                 |     |
|-----------------|-----|
| VOC Content (%) | 20  |
| VOC (g/l)       | 293 |

## 10. STABILITY AND REACTIVITY

### Reactivity

No data available.

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

None under normal processing.

### Hazardous Polymerization

Hazardous polymerization does not occur.

### Conditions to avoid

Heat, flames and sparks. Incompatible products.

**Incompatible materials**

Strong oxidizing agents. Strong acids. Strong bases.

**Hazardous decomposition products**

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Sulfur oxides.

**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure****Product Information**

|                     |  |
|---------------------|--|
| <b>Inhalation</b>   | There is no data available for this product. |
| <b>Eye Contact</b>  | There is no data available for this product. |
| <b>Skin Contact</b> | There is no data available for this product. |
| <b>Ingestion</b>    | Harmful if swallowed.                        |

| Chemical Name                       | LD50 Oral            | LD50 Dermal             | LC50 Inhalation       |
|-------------------------------------|----------------------|-------------------------|-----------------------|
| Quartz                              | = 500 mg/kg ( Rat )  | -                       | -                     |
| Dipropylene glycol monomethyl ether | = 5230 mg/kg ( Rat ) | = 9500 mg/kg ( Rabbit ) | -                     |
| Silicon dioxide                     | > 5000 mg/kg ( Rat ) | > 2000 mg/kg ( Rabbit ) | >2.2 mg/L ( Rat ) 4 h |

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** No information available.

**Delayed and immediate effects and also chronic effects from short and long term exposure**

**Sensitization** No information available.  
**Mutagenic Effects** No information available.  
**Carcinogenicity** This product contains crystalline silica (quartz) in a non-respirable form. Inhalation of crystalline silica is unlikely to occur from exposure to this product. This product contains carbon black which is classified as a possible carcinogen when present as respirable dust. This is not relevant for this product since it is not in a respirable form.

| Chemical Name   | ACGIH | IARC     | NTP | OSHA |
|-----------------|-------|----------|-----|------|
| Silicon dioxide |       | Group 3  |     |      |
| Carbon black    | A3    | Group 2B | -   | X    |

**ACGIH: (American Conference of Governmental Industrial Hygienists)**

A2 - Suspected Human Carcinogen  
A3 - Animal Carcinogen

**IARC: (International Agency for Research on Cancer)**

Group 1 - Carcinogenic to Humans  
Group 2B - Possibly Carcinogenic to Humans  
Group 3 - Not Classifiable as to its Carcinogenicity to Humans

**NTP: (National Toxicity Program)**

Known - Known Carcinogen

**OSHA: (Occupational Safety & Health Administration)**

X - Present

**Reproductive Toxicity**

May damage fertility or the unborn child

**STOT - single exposure**

No information available.

**STOT - repeated exposure**

No information available.

**Target Organ Effects**

Liver. Kidney. Respiratory system. Eyes. Skin. Central nervous system (CNS). Blood. Gastrointestinal tract (GI). Central vascular system (CVS). Lungs.

**Aspiration Hazard**

No information available.

**Numerical measures of toxicity - Product**

The following values are calculated based on chapter 3.1 of the GHS document:

**LD50 Oral** 878 mg/kg; Acute toxicity estimate  
**LD50 Dermal** 129482 mg/kg; Acute toxicity estimate mg/L

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

The environmental impact of this product has not been fully investigated.

| Chemical Name                                     | Toxicity to Algae                                       | Toxicity to Fish                                     | Toxicity to Microorganisms | Daphnia Magna (Water Flea)                  |
|---|---|--|----------------------------|---|
| Dipropylene glycol monomethyl ether<br>34590-94-8 |   | LC50 96 h: > 10000 mg/L static (Pimephales promelas) |                            | LC50 48 h: = 1919 mg/L (Daphnia magna)      |
| Silicon dioxide<br>7631-86-9                      | EC50 72 h: = 440 mg/L (Pseudokirchneriella subcapitata) | LC50 96 h: = 5000 mg/L static (Brachydanio rerio)    |                            | EC50 48 h: = 7600 mg/L (Ceriodaphnia dubia) |
| Carbon black<br>1333-86-4                         |   |  |                            | EC50 24 h: > 5600 mg/L (Daphnia magna)      |

**Persistence and Degradability** No information available.

**Bioaccumulation**

| Chemical Name                       | Log Pow |
|-------------------------------------|---------|
| Dipropylene glycol monomethyl ether | -0.064  |

**Other Adverse Effects**

No information available.

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Methods** Dispose of in accordance with federal, state, and local regulations

**Contaminated Packaging** Do not re-use empty containers.

## 14. TRANSPORT INFORMATION

**Note:** According to 49 CFR §173.150(f)(1), this material should be reclassified as NA1993, Combustible Liquid, NOS if it is shipped in bulk.

**DOT** Not regulated

**IATA** Not regulated

**IMDG/IMO** Not regulated

## 15. REGULATORY INFORMATION

**International Inventories**

**TSCA** Complies  
**EINECS** Complies  
**ELINCS** Complies

**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

**U.S. Federal Regulations**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

| Chemical Name                             | CAS-No   | Weight % | SARA 313 - Threshold Values % |
|---|----------|----------|-------------------------------|
| Diethylene glycol monoethyl ether acetate | 112-15-2 | 7-13     | 1.0                           |

**SARA 311/312 Hazard Categories**

|                                   |     |
|-----------------------------------|-----|
| Acute Health Hazard               | Yes |
| Chronic Health Hazard             | Yes |
| Fire Hazard                       | Yes |
| Sudden Release of Pressure Hazard | No  |
| Reactive Hazard                   | No  |

**Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**U.S. State Regulations**

**California Proposition 65**

This product contains the following Proposition 65 chemicals:

| Chemical Name | CAS-No     | California Prop. 65 |
|---------------|------------|---------------------|
| Quartz        | 14808-60-7 | Carcinogen          |
| Carbon black  | 1333-86-4  | Carcinogen          |

**U.S. State Right-to-Know Regulations**

"X" designates that the ingredients are listed on the state right to know list.

| Chemical Name                       | New Jersey | Massachusetts | Pennsylvania | Illinois | Rhode Island |
|-------------------------------------|------------|---------------|--------------|----------|--------------|
| Quartz                              | X          | X             | X            | -        | X            |
| Dipropylene glycol monomethyl ether | X          | X             | X            | X        | X            |
| Silicon dioxide                     | X          | X             | X            |          |              |
| Carbon black                        | X          | X             | X            | X        | X            |
| Barium sulfate                      | X          | X             | X            |          |              |

**U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

**16. OTHER INFORMATION**

|             |                  |                |                   |                                 |
|-------------|------------------|----------------|-------------------|---------------------------------|
| <b>NFPA</b> | Health Hazard 1  | Flammability 2 | Instability 0     | Physical and Chemical Hazards - |
| <b>HMIS</b> | Health Hazard 1* | Flammability 2 | Physical Hazard 0 | Personal Protection X           |

\*Indicates a chronic health hazard.

Prepared By Product Stewardship  
 23 British American Blvd.  
 Latham, NY 12110  
 1-800-572-6501  
 Issuing Date 13-May-2015  
 Revision Date 10-Jan-2023



---

**Revision Note**

Updated Contact Information

**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**