# SAFETY DATA SHEET

Issuing Date 01-Oct-2015 Revision Date 14-Dec-2022 Revision Number 1

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

**GHS** product identifier

Product Name PSR-4000 SW01TA

Other means of identification

Product Code(s) 811000

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Solder Mask

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** 1-800-255-3924 (USA) 1-813-248-0585 (International)

Number

### 2. HAZARDS IDENTIFICATION

### Classification

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

Skin Sensitization	Category 1
Reproductive Toxicity	Category 2
Flammable liquids	Category 4

### GHS Label elements, including precautionary statements

### **Emergency Overview**

Signal Word Warning Hazard Statements

May cause an allergic skin reaction

Suspected of damaging fertility or the unborn child

Combustible liquid.

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Appearance Light blue Physical State Liquid. Odor Mild Solvent

#### **Precautionary Statements**

#### Prevention

- Avoid breathing dust/fume/gas/mist/vapors/spray.
- Contaminated work clothing should not be allowed out of the workplace.
- · Wear protective gloves.
- 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**

- Specific treatment (see supplemental instructions on the administration of antidotes on this label)
- Specific treatment (see supplemental first aid instructions on this label)

#### Skir

- IF ON SKIN: Wash with plenty of soap and water.
- If skin irritation or rash occurs: Get medical advice/attention.
- Wash contaminated clothing before reuse.

#### **Fire**

• In case of fire: Use CO2, 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

Harmful to aquatic life with long lasting effects

69.32% of the mixture consists of ingredient(s) of unknown toxicity.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %	Trade secret
Titanium dioxide	13463-67-7	30-60	*
Dipropylene glycol monomethyl ether	34590-94-8	20-30	*
Talc	14807-96-6	1-5	*
Silicon dioxide	7631-86-9	1-5	*
Aluminum hydroxide	21645-51-2	1-5	*
Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide	75980-60-8	1- <3	*
Naphtha (petroleum), heavy aromatic	64742-94-5	0.1-1	*
Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)-	162881-26-7	0.1- <1	*

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

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### 4. FIRST AID MEASURES

### Description of necessary 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 off immediately with soap and plenty of water removing all contaminated clothes and

shoes. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions

see a physician.

**Inhalation** Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.

Ingestion Do NOT induce vomiting. Rinse mouth. Drink plenty of water. If symptoms persist, call a

physician.

#### Most important symptoms/effects, acute and delayed

Most Important Symptoms/Effects May cause allergic skin reaction.

### Indication of immediate medical attention and special treatment needed, if necessary

**Notes to Physician** May cause sensitization by skin contact. Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES

#### **Suitable Extinguishing Media**

Dry powder. Dry chemical, CO<sub>2</sub>, water spray or regular foam.

Unsuitable Extinguishing Media No information available.

#### **Specific Hazards Arising from the Chemical**

Combustible liquid. Vapors may travel to source of ignition and flash back. Burning produces obnoxious and toxic fumes. 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. May cause sensitization by skin contact.

**Explosion Data** 

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge Yes.

### <u>Protective Equipment and Precautions for Firefighters</u>

Wear self contained breathing apparatus for fire fighting if necessary.

### 6. ACCIDENTAL RELEASE MEASURES

# Personal precautions, protective equipment and emergency procedures

Personal Precautions Ensure adequate ventilation. In case of insufficient ventilation wear suitable respiratory

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

attention to flashback.

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

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

Methods for Cleaning Up

Use personal protective equipment. Dam up. Take up with sand or other noncombustible

absorbent material and place into containers for later disposal. Clean contaminated surface

thoroughly.

### 7. HANDLING AND STORAGE

#### Precautions for safe handling

**Handling** Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not

breathe vapors or spray mist. Take precautionary measures against static discharges. In case of insufficient ventilation, wear suitable respiratory equipment. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Use only in area provided with appropriate exhaust ventilation. Keep away from heat, sparks and open flame. No smoking. Do not take internally. Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

### Conditions for safe storage, including any incompatibilities

Storage Keep in properly labeled containers. Keep away from heat and sources of ignition. Keep out

of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated

place.

**Incompatible Products** Strong oxidizing agents. Strong acids. Strong bases.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### **Control parameters**

### **Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Titanium dioxide 13463-67-7	TWA: 10 mg/m <sup>3</sup>	TWA: 15 mg/m³ total dust (vacated) TWA: 10 mg/m³ total dust	IDLH: 5000 mg/m <sup>3</sup>
Dipropylene glycol monomethyl ether 34590-94-8	STEL: 150 ppm TWA: 100 ppm S*	TWA: 100 ppm TWA: 600 mg/m³ (vacated) TWA: 100 ppm (vacated) TWA: 600 mg/m³ (vacated) STEL: 150 ppm (vacated) STEL: 900 mg/m³ (vacated) STEL: 900 mg/m³	IDLH: 600 ppm TWA: 100 ppm TWA: 600 mg/m³ STEL: 150 ppm STEL: 900 mg/m³
Talc 14807-96-6	TWA: 2 mg/m <sup>3</sup>	(vacated) TWA: 2 mg/m <sup>3</sup>	IDLH: 1000 mg/m <sup>3</sup> containg no asbestos and <1% quartz TWA: 2 mg/m <sup>3</sup>
Silicon dioxide 7631-86-9	10 mg/m <sup>3</sup>	20 mppcf TWA; ((80)/(% SiO2) mg/m³)	IDLH: 3000 mg/m <sup>3</sup> TWA: 6 mg/m <sup>3</sup>
Aluminum hydroxide 21645-51-2	TWA: 1 mg/m <sup>3</sup> respirable fraction	-	-

## Appropriate engineering controls

Engineering Measures Showers

Eyewash stations Ventilation systems

#### Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Safety glasses with side-shields.

**Skin and Body Protection** Lightweight protective clothing. Impervious gloves.

**Respiratory Protection** When workers are facing concentrations above the exposure limit they must use

appropriate certified respirators.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

**Physical State** Liquid. **Appearance** Light blue.

Odor Mild Solvent. **Odor Threshold** No information available.

Values **Property** Remarks/ - Method

No data available None known Hq Melting Point/Range No data available None known **Boiling Point/Boiling Range** No data available None known Flash Point 78 °C / 172.4 °F 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

**Vapor Density** No data available None known **Specific Gravity** 1.653 None known Water Solubility No data available None known Solubility in other solvents No data available None known Partition coefficient: n-octanol/waterNo data available None known **Autoignition Temperature** No data available None known **Decomposition Temperature** No data available None known

**Viscosity** No data available Flammable Properties Combustible liquid. **Explosive Properties** No data available **Oxidizing Properties** No data available

Other information

**VOC Content (%)** No data available

VOC (g/l) 429.6

## 10. STABILITY AND REACTIVITY

None known

None known

### 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

Incompatible products. Heat, flames and sparks.

### Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

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### **Hazardous decomposition products**

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

### 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

**Product Information** 

Inhalation Avoid breathing vapors or mists. **Eve Contact** Contact with eyes may cause irritation. **Skin Contact** May cause allergic skin reaction

Ingestion There is no data available for this product.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Titanium dioxide	> 10000 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
Naphtha (petroleum), heavy aromatic	> 5000 mg/kg (Rat)	> 2 mL/kg (Rabbit)	> 590 mg/m³ (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 May cause sensitization of susceptible persons. May cause sensitization by skin contact.

**Mutagenic Effects** No information available.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

This product contains titanium dioxide in a non-respirable form. Inhalation of titanium

dioxide is unlikely to occur from exposure to this product.

Chemical Name	ACGIH	IARC	NTP	OSHA
Titanium dioxide		Group 2B	-	-
Silicon dioxide		Group 3		

IARC: (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

Group 3 - Not Classifiable as to its Carcinogenicity to Humans

**Reproductive Toxicity** Suspected of damaging fertility or the unborn child.

STOT - single exposure No information available. STOT - repeated exposure No information available.

**Target Organ Effects** Respiratory system. Eyes. Central nervous system (CNS). Central vascular system (CVS).

Lunas.

No information available. **Aspiration Hazard** 

## Numerical measures of toxicity - Product

**Acute Toxicity** 69.32% of the mixture consists of ingredient(s) of unknown toxicity.

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

LD50 Oral 6330 mg/kg; Acute toxicity estimate **LD50 Dermal** 11497 mg/kg; Acute toxicity estimate

### 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

Harmful to aquatic life with long lasting effects.

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Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Dipropylene glycol monomethyl ether 34590-94-8		LC50 96 h: > 10000 mg/L static (Pimephales promelas)		LC50 48 h: = 1919 mg/L (Daphnia magna)
Talc 14807-96-6		LC50 96 h: > 100 g/L semi-static (Brachydanio rerio)		
Silicon dioxide 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)
Naphtha (petroleum), heavy aromatic 64742-94-5	EC50 72 h: = 2.5 mg/L (Skeletonema costatum)	LC50 96 h: = 19 mg/L static (Pimephales promelas) LC50 96 h: = 2.34 mg/L (Oncorhynchus mykiss) LC50 96 h: = 1740 mg/L static (Lepomis macrochirus) LC50 96 h: = 45 mg/L flow-through (Pimephales promelas) LC50 96 h: = 41 mg/L (Pimephales promelas)		EC50 48 h: = 0.95 mg/L (Daphnia magna)

Persistence and Degradability

No information available.

#### **Bioaccumulation**

Chemical Name	Log Pow
Dipropylene glycol monomethyl ether	-0.064
Naphtha (petroleum), heavy aromatic	2.9 - 6.1

#### **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 CRF §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

# Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

### U.S. Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

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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
Titanium dioxide	13463-67-7	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
Titanium dioxide		X			X
Dipropylene glycol monomethyl ether	Х	Х	Х	Х	Х
Talc	X	Х	X		X
Silicon dioxide	X	Х	X		

#### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION					
<u>NFPA</u>	Health Hazard 2	Flammability 2	Instability 0	Physical and Chemical Hazards -	
HMIS	Health Hazard 2*	Flammability 2	Physical Hazard 0	Personal Protection X	

<sup>\*</sup>Indicates a chronic health hazard.

Prepared By Product Stewardship

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Issuing Date01-Oct-2015Revision Date14-Dec-2022

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.

CDC Number DCD 4000 CW04TA

**End of Safety Data Sheet** 

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