



# SAFETY DATA SHEET

Issuing Date 24-May-2015

Revision Date 15-Jun-2015

Revision Number 1

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

### 1.1. Product identifier

Product Code(s) 800071

Product Name PSR-4000 LEW1 (US)

Contains Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)-

### 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
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## Section 2. Hazards identification

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

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

Chronic Aquatic Toxicity	Category 3
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#### Physical Hazards

None
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### 2.2. Label Elements

Signal Word Warning

#### Hazard Statements

H412 - Harmful to aquatic life with long lasting effects  
EUH208 - May produce an allergic reaction

#### Precautionary Statements

P273 - Avoid release to the environment

### 2.3. Other information

Contains Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)-

### Section 3. Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Chemical Name	EC-No	CAS-No	Weight %	EU - GHS Substance Classification	REACH No.
Titanium dioxide	236-675-5	13463-67-7	30-60		No data available
Dipropylene glycol monomethyl ether	Present	34590-94-8	10-30		No data available
Talc	238-877-9	14807-96-6	1-5		No data available
Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide	278-355-8	75980-60-8	< 3	Repr. 2 (H361f)	No data available
Naphtha (petroleum), heavy aromatic	Present	64742-94-5	0.1-1	Asp. Tox. 1 (H304) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	No data available
Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)-	423-340-5	162881-26-7	<1	Skin Sens. 1 (H317) Aquatic Chronic 4 (H413)	No data available

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

#### 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

Water spray. Carbon dioxide (CO<sub>2</sub>). Dry chemical. Dry powder.

**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.

**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**

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

**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. Avoid release to the environment.

**6.3. Methods and materials for containment and 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.

**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. Wear personal protective equipment. Do not breathe vapors or spray mist. Use only in area provided with appropriate exhaust ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. 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). Do not take internally.

**Hygiene Measures**

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

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

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

**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**



<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 / 172.4 °F	None known
<b>Evaporation rate</b>	No data available	None known
<b>Flammability (solid, gas)</b>	No data available	None known
<b>Vapor Pressure</b>	No data available	None known
<b>Vapor Density</b>	No data available	None known
<b>Relative Density</b>	1.66	None known
<b>Water Solubility</b>	No data available	None known
<b>Solubility in other solvents</b>	No data available	None known
<b>Partition coefficient: n-octanol/water</b>	No data available	None known
<b>Autoignition Temperature</b>	No data available	None known
<b>Decomposition Temperature</b>	No data available	None known
<b>Viscosity</b>	200 ps	None known
<b>Flammable Properties</b>	Combustible material: may burn but does not ignite readily.	
<b>Explosive Properties</b>	No data available	
<b>Oxidizing Properties</b>	No data available	

**9.2. Other information**

<b>VOC Content (%)</b>	26
<b>VOC (g/l)</b>	480 gm/l
<b>Flammability Limits in Air</b>	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. Strong acids. Strong bases.

**10.6. Hazardous decomposition products**Carbon dioxide (CO<sub>2</sub>). Carbon monoxide (CO). Sulfur oxides.

## Section 11. Toxicological information

**11.1. Information on toxicological effects****Acute Toxicity****Product Information**

Product does not present an acute toxicity hazard based on known or supplied 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**

There is no data available for this product.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Titanium dioxide	> 10000 mg/kg ( Rat )		> 6820 mg/m <sup>3</sup>
Dipropylene glycol monomethyl ether	= 5230 mg/kg ( Rat )	= 9500 mg/kg ( Rabbit )	

Naphtha (petroleum), heavy aromatic	> 5000 mg/kg ( Rat )	> 2 mL/kg ( Rabbit )	> 590 mg/m <sup>3</sup> ( Rat ) 4 h
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<b>Sensitization</b>	No information available.
<b>Mutagenic Effects</b>	No information available.
<b>Carcinogenic Effects</b>	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 nervous system (CNS). Eyes. Respiratory system. Skin.
<b>Aspiration Hazard</b>	No information available.

## Section 12. Ecological information

### 12.1. Toxicity

#### Ecotoxicity Effects

Harmful to aquatic life with long lasting effects.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Dipropylene glycol monomethyl ether		LC50 96 h: > 10000 mg/L static (Pimephales promelas)		LC50 48 h: = 1919 mg/L (Daphnia magna)
Talc		LC50 96 h: > 100 g/L semi-static (Brachydanio rerio)		
Naphtha (petroleum), heavy aromatic	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)

### 12.2. Persistence and degradability

No information available.

### 12.3. Bioaccumulative potential.

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

### 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.

<b>Section 13. Disposal considerations</b>
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**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.

<b>Section 14. Transport information</b>
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**IMDG/IMO**

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

**RID**

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

**ADR**

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

**ICAO**

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

**IATA**

<b>14.1. UN-Number</b>	Not regulated.
<b>14.2. Proper Shipping Name</b>	Not regulated.
<b>14.3. Hazard Class</b>	Not regulated.
<b>14.4. Packing Group</b>	Not regulated.
<b>Description</b>	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/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

H317 - May cause an allergic skin reaction

H361f - Suspected of damaging fertility

EUH208 - May produce an allergic reaction

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

H412 - Harmful to aquatic life with long lasting effects

H304 - May be fatal if swallowed and enters airways

#### Key literature references and sources for data

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

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Revision Note	(M)SDS sections updated: 3.

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

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.



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End of Safety Data Sheet