GHS Material Safety Data Sheet

MSDS No. : PDA02PAEG Date Issued: 2012/08/03

Section 1. Identification of the substance or mixture and of the supplier

1.1 Product Information

Product name: PdSi Palladium silicide

Product number:	Purity	Form	Size (mm) or Shape
PDA01PB	－	powder	－

1.2 Company Information:

Manufacturer : Kojundo Chemical Laboratory Co., Ltd
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Section 2. Hazards identification

GHS Classification

Health Hazards	Environmental Hazards	Physical Hazards
No data available	No data available	**Substances and mixtures which, in contact with water, emit flammable gases : Not classified**

GHS Label:

Pictograms or symbols No data available

Warning word: Not applicable	
Hazard information	**Description of precaution**
Not applicable	No data available

Additional hazard information :

With respect to additional hazard information, see Section 11.

Section 3. Composition / information on ingredients

Chemical or common name:	Palladium monosilicide
Chemical formula:	PdSi
Single Substance or Compound:	Single substance
Composition:	100%
CAS #:	12137-77-8
RTECS#:	Not listed
TSCA inventory:	Not listed
EINECS:	Not listed

Section 4. First aid measures

Eye contact: Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

Skin contact: Promptly flush contaminated skin with soap or mild detergent and water. Contact physician if irritation continues.

Inhalation: Remove the exposed person immediately and provide fresh air.
Get medical attention.
Ingestion: Rinse mouth and throat with water. Get medical attention immediately.

Section 5. Fire fighting measures

Extinguishing media:
This product dose not catch fire easily. Use media appropriate for surrounding fire.
Fire fighting: Wear self contained breathing apparatus for fire fighting if necessary.
If this product catch fire, use dry sand, dry sodium chloride based extinguishers or other Class D fire-extinguishing materials.

Section 6. Accidental release measures

Personal Precautions:
Workers should use protective wears to prevent contact with the spilt adhesive and inhalation of its dusts.
Environmental hazard precautions:
Shut off leak if without risk.
Prevent flow out to river, etc. so as not to badly affect.
Method for containment and cleaning up:
Indoor leakage: Ventilate as much as possible until the cleaning is completed.
Outdoor leakage: Work from the windward and evacuate the leeward crowd.
Gather up, pack in closed container as much as possible.
Carefully collect remnant and move to a safe place.

Section 7. Handling and storage

Precautions to be taken in handling:
Safe handling: Use protective wears and local ventilation equipment, if inhalation or skin contact is foreseen.
Precautions to be taken in storage:
General precautions: Store in a cool, dry place away from incompatible materials.

Section 8. Exposure controls / personal protection

Exposure guideline: ACGIH(2012) : No data available
OSHA(2006) : No data available
Facility measures: Local ventilation of closed work room or total proper ventilation to prevent inhalation.
Protective ware: Wear appropriate NIOSH/MSHA-approved respirator, air-supplied respirator, safety goggles, face shields, protective gloves, protective clothing, apron, including boots.

Section 9. Physical and chemical properties

Color and Form: Solid, odorless.
Chemical formula: PdSi
Formula weight: 134.5
Melting point: ～1100 ℃
Boiling point: No data available
Density: 7.31 g/㎤

Water solubility	Insoluble
Flammable:	No data available
Oxidation:	No data available

Section 10. Stability and reactivity

Stability: Practically stable in air and moisture.

Reactvity

Incompatibility: Halogens

Condition to avoid: No data available

Hazardous decomposition products.:
No data available

Section 11. Toxicological information

Acute toxicity :	GHS : No data available
Skin corrosive / irritation:	GHS : No data available
Serious eyes damage / eye irritation:	GHS : No data available
Respiratory sensitization:	GHS : No data available
Skin sensitization:	GHS : No data available
Germ cell mutagenicity:	GHS : No data available
Carcinogenicity:	GHS : No data available
Reproductive toxicity:	GHS : No data available
Specific target organ toxicity −single exposure:	GHS : No data available
Specific target organ toxicity −repeated exposure:	GHS : No data available
Aspiration hazard:	GHS : No data available

Other cautions: Mechanical stimulation by dust affects eyes, skin and respiratory system

Section 12. Ecological information

Ecotoxicity:

Hazards to the aquatic environment

−acute toxicity:	GHS : No data available
−chronic toxicity:	GHS : No data available

Hazrdous the ozone layer:	GHS : No data available No Freon or Halon
Fish toxicity:	No data available
Degradability:	No data available
Bioaccumulative potential:	Pd: biological half-life 5 day, Rate of absorption Oral=0.2 Respiratory tract=0.35 Si: biological half-life 60 day, Rate of absorption Oral=0.85 Respiratory tract=0.68

Section 13. Disposal considerations

Disposal method: User of the product should contract with the local government or licensed 'Industrial Waste Haulers' for disposal of waste.

Section 14. Transport information

UN classification:	Non-hazards
UN number:	None
HS code:	2843.90
Marine pollution:	None
Precautions:	Container should be transported in a secure position, in a well-ventilated vehicle.

Section 15. Regulatory information

TSCA inventory : Not listed.
Please refer to any other local / national measures that may be relevant.

Section 16. Other information

The information described above is believed to be correct. However, Kojundo Chemical Lab. makes no representation, warranty nor guarantee of any kind with respect to the information on this data sheet or any use of the product based upon this information.