

GHS Safety Data Sheet

SDS No. : SII01PAEG

Date Issued: 2008/04/21

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

1.1 Product Information

Product name: Si₃N₄ Silicon nitride

Product number:	Purity	Form	Size (mm) or Shape
SII09PB	99 %(2N)up	powder	ca.1 μ m
SII08PB	99.9 %(3N)up	powder	ca.0.5 μ m
—	99.5 %(2N5)	tablet/target	Various sizes

1.2 Company Information:

Manufacturer : Kojundo Chemical Laboratory Co., Ltd
 1-28, 5-chome, Chiyoda, Sakado-shi, Saitama Japan 350-0284
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Section 2. Hazards identification

GHS Classification

Health Hazards	Environmental Hazards	Physical Hazards
No data available	No data available	Flammable solids : Not classified Pyrophoric solids : Not classified Self heating substances and mixtures : Not classified Substances and mixtures which, in contact with water, emit flammable gases : Not classified

GHS Label:

Pictograms or symbols: Not applicable

Warning word: Not applicable

Hazard information	Description of precaution
Not applicable	Wear protective gloves/protective clothing/eye protection /respiratory protection/face protection during handling. Avoid release to the environment and collect spillage. Protect from sunlight. Store in a cool, dry and well-ventilated place. Keep container tightly closed.

Additional hazard information :

Hazards mainly originate in dusting.

With respect to additional hazard information, see Section 11.

Section 3. Composition / information on ingredients

Chemical or common name:	Silicon nitride
Synonyms:	Trisilicon tetranitride
Chemical formula:	Si ₃ N ₄
Single Substance or Compound:	Single substance
Composition:	100%
CAS#:	12033-89-5
RTECS#:	not listed
TSCA inventory:	listed
EINECS:	2347968

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:	The product is nonflammable. Use media appropriate for surrounding fire.
Fire fighting:	Self-contained breathing apparatus and full protective clothing should be used, if this product is involved in fire.

Section 6. Accidental release measures

Personal Precautions:	Workers should use protective wears to prevent contact with the spilt adhesive and inhalation of its vapor.
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 (2013) : 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:	White-Gray solid, odorless.
Chemical formula:	Si ₃ N ₄
Formula weigh	140.3
Melting point:	1900 °C (under pressure)
Density:	3.17 g/cm ³
Water solubility	Insoluble
Flammable:	Non-flammable substance
Oxidation:	None

Section 10. Stability and reactivity

Stability:	Stable in closed container at room temperature.
Reactivity	Refractory solid High thermal stability.
Incompatibility:	No data available
Condition to avoid:	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

Section 12. Ecological information

Ecotoxicity:

Hazards to the aquatic environment

- acute toxicity: GHS ; No data available
- chronic toxicity: GHS ; No data available

Hazardous to the ozone layer

GHS ; No data available
No Freon or Halon

Fish toxicity:

No data available

Degradability:

No data available

Bioaccumulative potential:

No data available

Mobility in soil:

No data available

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: 2850.00

Marine pollution: None

Precautions: Container should be transported in a secure position, in a well-ventilated vehicle.

Section 15. Regulatory information

TSCA inventory : 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.