

**GHS Safety Data Sheet**

SDS No. : SIE02TAEG

Date Issued : 2006/08/02

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**Section 1. Identification of the substance or mixture and of the supplier****Product Information**

Product name: Si Silicon

Product number	Purity	Form	Size or Shape
SIE01GB	99.999% (5N)	grains	2-5mm
SIE01RB	99.999% (5N)	rod/tablet	Φ 10x t5
SIE02RB	99.999% (5N)	rod/tablet	Φ 20x t5
SIE01CB	99.999% (5N)	chips	5x 5x t1
SIE02CB	99.999% (5N)	chips	10x 10x t1
-	99.999% (5N)	lumps/grains	Various sizes
-	99.999% (5N)	sheet	Various sizes
-	99.999% (5N)	target	Various shapes, Various sizes, P,N-type doped

**Company Information:**

Manufacturer : Kojundo Chemical Laboratory Co., Ltd.

1-28, 5-chome, Chiyoda, Sakado-shi, Saitama Japan 350-0284

Phone: +81-49-284-1511 Fax: +81-49-284-1351

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**Recommended uses and restrictions on use:** For research purposes**Section 2. Hazards identification****GHS Classification**

Health Hazards	Environmental Hazards	Physical Hazards
Acute toxicity : Not classified Serious eye damage / eye irritation : Category 2B	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:**

No data available

Pictograms or symbols:

**Warning word: Warning**

Hazard information	Description of precaution
Causes eye irritation	Wear protective gloves/protective clothing/eye protection/respiratory protection / face protection during handling. Avoid breathing dust/mist/gas/fume/vapors/spray. Do not eat, drink or smoke when using this product, and wash hands thoroughly after handling. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Section 3. Composition / information on ingredients**

Chemical or common name: Silicon

Chemical formula: Si

Single Substance or Compound: Single substance

Composition:	100%
CAS No.:	7440-21-3
RTECS No.:	VW0400000
TSCA inventory :	Listed
EINECS:	2311308

(See Section 8 for Exposure Limits)

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#### 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.

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#### Section 5. Fire fighting measures

Extinguishing media:	Use media appropriate for surrounding fire.
Fire fighting:	The product is not combustible. Self-contained breathing apparatus and full protective clothing should be used, if the material is involved in fire.

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#### Section 6. Accidental release measures

Personal Precautions:	Workers should use protective wears to prevent contact with the spilt adhesive and inhalation of its vapor/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:	Avoid unnecessary contacts with spills. 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.

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#### 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. Avoid prolonged or repeated exposure.
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##### Precautions to be taken in storage:

General precautions:	Store the material in a sealed container. Store in a cool, dry, well ventilated and dark place away from incompatible materials.
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#### Section 8. Exposure controls / personal protection

Exposure guideline:

Chemical Name	ACGIH(2019) TLV-STEL mg/m <sup>3</sup>	OSHA(2006) PEL-TWA mg/m <sup>3</sup>
Silicon	-	5 (Respirable fraction) 15 (Total dust)

Facility measures: Local ventilation of closed work room or total proper ventilation to prevent inhalation.

Protective ware: Wear appropriate NIOSH/MSHA-approved respirator, safety goggles, protective gloves.

## Section 9. Physical and chemical properties

Color and Form: Bluish dark gray crystalline, powder, odorless  
 Chemical formula: Si  
 Formula weight: 28.09  
 Melting point: 1410 °C  
 Boiling point: 2355 °C  
 Density: 2.33 g/cm<sup>3</sup>  
 Solubility in water: Water: Insoluble  
 Flammability: Non-combustible substance  
 Oxidation: None

## Section 10. Stability and reactivity

Stability: Stable under the recommended storage conditions.  
 Reactivity  
 Condition to avoid: No data available  
 Incompatibility: Oxidizing agents, halogens, sodium-potassium alloy, alkali-metal carbonates.  
 Hazardous decomposition products:  
 No data available

## Section 11. Toxicological information

Acute toxicity(Oral): GHS : Not classified ; Falls below the lowest level.  
 Si oral rat LD<sub>50</sub> = 3160 mg/kg bw (IUCLID(2000))  
 Acute toxicity estimate ATEmix >2000 mg/kg  
 Skin corrosive / irritation: GHS : No data available  
 Serious eye damage / irritation: GHS : Category 2B ; Causes eye irritation  
 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  
 – repeated exposure: GHS : No data available  
 Aspiration hazard: GHS : No data available

## Section 12. Ecological information

Ecotoxicity: Hazardous 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

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### 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.

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### Section 14. Transport information

UN classification: Non-hazards  
UN number: None  
HS code: 2804.61  
Marine pollution: None  
Precautions: Container should be transported in a secure position, in a well-ventilated vehicle.

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### Section 15. Regulatory information

TSCA inventory: Listed.  
Please refer to any other local / national measures that may be relevant.

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### Section 16. Other information

This SDS is for provision of information, and it does not represent a guarantee the properties or safeties of the product.

The information herein is based on the references we could obtained and the present state of our knowledge, however, this SDS does not always cover all information about the product. Some new information or amendments may be added afterwards.

Prior to use, please investigate the laws and regulations of the organization, area and country where the product is to be used. The information is intended to ordinary usage, in case of special handling, sufficient care should be taken.