

GHS Material Safety Data Sheet

MSDS No. : SII02PAEG

Date Issued: 2011/08/24

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

1.1 Product Information

Product name: SiC Silicon carbide

Product number:	Purity	Form	Size (mm) or Shape
SII01PB	99%up(2Nup)	powder	2~3 μm
SII02PB	99%up(2Nup)	Powder (whisker)	—
—	—	rod/tablet	Various sizes
—	—	target	Various sizes

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
Carcinogenicity : Category 1B Specific target organ toxicity, single exposure : Category 1 Specific target organ toxicity, repeated exposure : Category 1	No data available	Not classified.

GHS Label : C



Pictograms or symbols

Warning word: **DANGER**

Hazard information

May cause cancer.
Causes damage to organs.
(Respiratory organs)
Causes damage to organ (Lung) through
prolonged or repeated exposure.

Description of precaution

Obtain special instructions. Read and understand all safety precautions before handling.
 Wear protective gloves/protective clothing/eye protection/respiratory protection/face protection during handling.
 Avoid breathing dust/ fume/ vapors.
 Do not eat, drink or smoke when using this product, and wash hands thoroughly after handling.
 Use only outdoors or in well-ventilated area.
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 Call a POISON CENTER or doctor/physician if you feel unwell.
 Dispose of contents/ container in accordance with local/ national regulations.

Additional hazard information :

With respect to additional hazard information, see Section 11.

Section 3. Composition / information on ingredients

Chemical or common name:	Silicon carbide
Chemical formula:	SiC
Single Substance or Compound:	Single substance
Composition:	100%
CAS#:	409-21-2
RTECS#:	VW0450000
TSCA inventory:	listed
EINECS:	2069918

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 cannot catch fire. Use media appropriate for surrounding fire.
Fire fighting:	The product is nonflammable. Remove containers to safe place if possible. Self-contained breathing apparatus and full protective clothing should be used, if the material is involved in fire.
Specific hazards arising from the chemical:	In case of fire, may liberate toxic gases/ fume.

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.
Keep container or bottle tightly closed.

Section 8. Exposure controls / personal protection

Exposure guideline: ACGIH (2008): Silicon carbide
Fibrous forms(including whiskers) TLV-TWA 0.1 f/cc
Nonfibrous TLV-TWA 10 mg/ m³ (Inhalable particulate)
3 mg/ m³ (Respirable particulate)
OSHA (2006): Silicon carbide PEL-TWA 15 mg/ m³ (Total dust)
5 mg/ m³ (Respirable fraction)

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: Colorless ~ green-black crystalline solid , odorless.

Chemical formula: SiC

Formula weigh: 40.1

Melting point: 2700 (decompose)

Boiling point: 2200 (sublimation)

Density: 3.16 g/cm³

Water solubility Insoluble

Flammable: non-flammable substance

Oxidation: None

Section 10. Stability and reactivity

Stability: Stable.

Reactivity

Incompatibility: Strong oxidizing agents.

Hazardous decomposition products.:
Carbon monoxide, carbon dioxide, silicon oxides.

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 ; Category 1B : May cause cancer. ACGIH(2008) A2 : Suspected human carcinogen.
Reproductive toxicity:	GHS ; No data available
Specific target organ toxicity —single exposure:	GHS ; Category 1 Causes damage to organs. (Respiratory organs)
Specific target organ toxicity —repeated exposure:	GHS ; Category 1 Causes damage to organ (Lung) through prolonged or repeated exposure.
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
Fish toxicity:	No data available
Degradability:	No data available
Bioaccumulative potential:	Si biological half-life 60 day, Rate of absorption Oral=0.85 Respiratory tract=0.68
Ozone layer:	No Freon or Halon

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:	2849.20
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.