GHS Safety Data Sheet

SDS No.: GEE01GAEG Date Issued: 2008/02/19

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

1.1 Product Information

Product name: Ge Germanium

Product number:	Purity	Form	Size (mm) or Shape	
GEE05GB	99.99%(4N)	lumps	7∼10	
GEE07GB	4N	grains	2~5	
GEE06GB	99.999%(5N)	lumps	<i>7</i> ∼10	
GEE08GB	5N	grains	2~5	
GEE09CB	5N	chips	$5\times5\times1$	
GEE02CB	_	chips	$10\times10\times1$	
GEE10CB	5N	chips	$10\times10\times1$	
_	_	tablet & rod / 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	
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:

With respect to additional hazard information, see Section 11.

Section 3. Composition / information on ingredients

Chemical or common name: Germanium

Chemical formula: Ge

Single Substance or Mixture: Single substance

 Composition:
 100%

 CAS #:
 7440-56-4

 RTECS#:
 LY5200000

 TSCA inventory:
 listed

EINECS: 2311643

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 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/dusts.

Environmental Shut off leak if without risk.

hazard precautions: Prevent flow out to river, etc. so as not to badly affect.

Method for Indoor leakage: Ventilate as much as possible until the cleaning is completed. containment and Outdoor leakage: Work from the windward and evacuate the leeward crowd.

cleaning up: 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 the material in a sealed container.

Store in a cool, dry, well ventilated and dark 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, safety goggles,

impervious gloves, protective wear, protective boots.

Section 9. Physical and chemical properties

Color and Form: Lustrous greyish-white metal, odorless.

Chemical formula: Ge
Formula weight: 72.64
Melting point: 937.4 $^{\circ}$ C
Boiling point: 2830 $^{\circ}$ C
Density: 5.323 g/cm
Water solubility: Insoluble

Flammable: Non-flammable substance

Oxidation: None

Section 10. Stability and reactivity

Stability: Stable in closed container at room temperature.

Reactvity

Incompatibility: Strong oxidizing agents, halogens

Section 11. Toxicological information

Acute toxicity:

Skin corrosive / irritation:

GHS; No data available

Specific target organ toxicity

-single exposure: GHS; No data available

Specific target organ toxicity

-repeated exposure: GHS; No data available

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

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

Degradability: No data available

Bioaccumulative potential:

Ingredients	Biological half-life	f-life Rate of absorption	
Name	(day)	oral	respiratory tract
Ge	1	0.01	0.26

Fish toxicity: 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: Not hazardous

UN number: None
HS code: 8112.99
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.