

GHS Safety Data Sheet

SDS No. : TIE02RAEG

Date Issued:2012/06/12
Last Updated:2014/06/06

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

1.1 Product Information

Product name: Ti Titanium

Product number:	Purity	Form	Size (mm)	Product number:	Purity	Form	Size (mm)
TIE01RB	99%up(2Nup)	rod	Φ2x L40	TIE05RB	99.9%(3N)	tablets	Φ20xt5
—	99.99%(4N)	rod	10x10xt10	TIE01WB	99%up(2Nup)	wire	Φ0.5x L10m
TIE02RB	99.9%(3N)	tablets	Φ10xt5	TIE03WB	99%up(2Nup)	wire	Φ1x L10m
TIE03RB	99.9%(3N)	tablets	Φ10xt10	TIE03CB	99.9%(3N)	chips	5x5xt1
TIE04RB	99.9%(3N)	tablets	Φ15xt5	TIE04CB	99.9%(3N)	chips	10x10xt1

Product number	Purity	Form	Size (mm)
—	2N-4N	rod, tablets, wire, chips, bullion	Various size

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 No data available

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: Titanium
 Chemical formula: Ti
 Single Substance or Compound: Single substance
 Composition: 100%

CAS# : 7440-32-6
RTECS# : XR1700000
TSCA inventory: listed
EINECS: 2311423

Section 4. First aid measures

(About dust originated from the products)

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: Wear self contained breathing apparatus for fire fighting if necessary.
The product is nonflammable.

Section 6. Accidental release measures

(About dust originated from the products)

Personal Precautions: Workers should use protective wears to prevent contact with the spilt adhesive and inhalation of its dust/ fume.

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 (2013): No data available
OSHA (2006) : No data available

Facility measures: (In case of dust generating work)
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: Silver white, odorless.
 Chemical formula: Ti
 Atomic weight: 47.87
 Melting point: 1660 °C
 Boiling point: 3287 °C
 Density: 4.54 g/cm³
 Solubility Water: Insoluble
 Dissoluble: Hot inorganic acids, nitric acid, hydrofluoric acid.
 Flammable: non-flammable substance
 Oxidation: None

Section 10. Stability and reactivity

Stability: Practically stable in air.
 Reactivity
 Incompatibility: Strong acids, strong oxidizing agents, chlorinated solvents, halogens.
 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
 Hazrdous the ozone layer: GHS ; No data available
 No Freon or Halon
 Fish toxicity: No data available
 Degradability: No data available
 Bioaccumulative potential: Ti biological half-life 320 day,
 Rate of absorption oral=0.0001, Respiratory tract=0.25

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: 8108.90
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.