

GHS Safety Data Sheet

SDS No. : TIE04PAEG

Date Issued:2019/02/05

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

Product Information

Product name: Ti Titanium

Product number:	Purity	Form	Size (µm)
TIE06PB	99.9%(3N)	powder	45 pass
TIE07PB	99.9%(3N)	powder	38 pass

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 : Category 1 Pyrophoric solids : Not classified Self-heating substances and mixtures : Category 1 Substances and mixtures which, in contact with water, emit flammable gases : Not classified

GHS Label: F



Pictograms or symbols

Warning word: DANGER

Hazard information
Flammable solids
Self-heating substances and mixtures

Description of precaution

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 Use explosion-proof electrical/ventilating/lighting/.../equipment. Take precautionary measures static discharge.
 IN CASE OF FIRE: Wear protective gloves/eye protection/face protection. Use «refer to our SDS» to extinguish.
 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: 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

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:	Dry sand, Perlite ,Metal fire extinguishers. DO NOT use water fog or foam, carbon dioxide.
Fire fighting:	Flammable material. 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.

Section 6. Accidental release measures

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:	Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves. Wear disposable coveralls and discard them after use. Remove all sources of ignition. 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. Absorb or cover with vermiculite or other suitable absorbent, and dispose of DOT-approved waste containers as much as possible. Carefully wash spill site with plenty of water after material pick up.

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. Keep away from heat, sparks and naked flame. Electrically ground all equipment when handling this material and use only non-sparking tools.
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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. Keep away from any heat, sparks, and flames.
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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:	Silver-gray, odorless
Chemical formula:	Ti
Formula weight:	47.9
Melting point:	1660 °C
Boiling point:	3287 °C
Density:	4.54 g/cm ³ at 20 °C
Solubility in water:	Insoluble
Flammable:	Flammable substance
Oxidation:	None

Section 10. Stability and reactivity

Stability:	Stable in closed container.
Reactivity	
Incompatibility:	Strong acids, strong oxidizing agents, halogens, chlorinated solvents
Condition to avoid:	Heat, sparks

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 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 number:	2546
IATA shipping name:	TITANIUM POWDER, DRY
IATA hazard class:	Class 4.2 (Substances liable to spontaneous combustion)
IATA packing group:	II
HS code:	8108.20
Marine pollution:	None

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.