GHS Safety Data Sheet

SDS No. : TIA05PAEG Date Issued : 2019/07/29

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

Product Information

Product name: Ti-Fe(46.2:53.8%) Titanium-iron alloy

Product	Purity	Form	Size or Shape
TIA03PB	−	powder	−

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
Emergency Phone : +81-49-284-1511

Recommended uses and restrictions on use: For research purposes

Section 2. Hazards identification

GHS Classification

Health Hazards	Environmental Hazards	Physical Hazards
No data available	No data available	**Flammable solids : Category 2**

GHS Label: F

Pictograms or symbols:

Warning word: **WARNING**

Hazard information	Description of precaution
Flammable solid	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. Dispose of contents/ container in accordance with local/national regulations.

Section 3. Composition / information on ingredients

Single Substance or Mixture: Mixture

Ingredients information :

Hazardous Ingredients		Cas No.	RTECS No.	TSCA Inventory	EINECS
Titanium	Ti	7440-32-6	XR1700000	listed	2311423
Iron	Fe	7439-89-6	NO4565500	listed	2310964

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.

Section5. 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 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:
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.
Air and moisture sensitive. Light sensitive.
Keep away from heat, sparks and naked flame.
Electrically ground all equipment when handling this material and use only non-sparking tools.
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(2019) : 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, protective gloves.

Section 9. Physical and chemical properties

Color and Form: Silver solid

Ingredients Name	Formula	Atomic Weight	Melting Point(℃)	Boiling Point(℃)	Density (g/ cm^3)	Water Solubility
Titanium	Ti	47.9	1660	3287	4.54	insoluble
Iron	Fe	55.9	1535	2750	7.87	insoluble

Flammable: Flammable substance
Oxidation: None

Section10. Stability and reactivity

Stability: Stable in closed container.
Reactvity
Incompatibility: Ti Strong acids, strong oxidizing agents, halogens, chlorinated solvents.
Fe Acids, strong oxidizing agents, halogens, sulfur, phosphorus.

Section11. Toxicological information

Acute toxicity: GHS : No data available
Skin corrosive / irritation: GHS : No data available
Serious eye damage / 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
－repeated exposure: GHS : No data available
Aspiration hazard: GHS : No data available

Section12. 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

Section13. 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: 3089
IATA shipping name: Metal powder, flammable, n.o.s.
IATA hazard class: Class 4.1 (Flammable solids)
IATA packing group: Ⅲ

HS code: 7202.91
Marine pollution: None

Section 15. Regulatory information

TSCA inventory: Ti, Fe 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.