

Section 1 – Product and Company Identification

Product Identification: Industrial Titanium (sheet, rod, tube, etc.)

Manufacturer's Name: Kobe Steel Mill Corporation

Manufacturer's Address: 5-9-12 Shinagawa, Shinagawa-ku, Tokyo, Japan.

Department: Titanium Department, Titanium Technical Section, Technical Group

Telephone Number: : +81-3-5739-6211

Fax Number: : +81-3-3218-6932

Emergency Contact Number: aforementioned telephone number

Section 2 - Composition, Information on Ingredients

Main Components

Grade	Chemical Composition by Weight (%)					
	H	O	N	C	Fe	Ti
JIS 1 st grade	0.015	0.15	0.05	0.08	0.20	Remaining amount
JIS 2 nd grade	0.015	0.20	0.05	0.08	0.25	Remaining amount
JIS 3 rd grade	0.015	0.30	0.07	0.08	0.30	Remaining amount

Section 3 - Hazards Identification

Specific Hazards: Not Applicable

Section 4 – Applications (Occupational Safety and Health Law, Hazardous Material, Poisonous Material, Industrial Pollution, etc.)

Not Applicable

Section 5 - Physical & Chemical Properties

Outward Appearance:

Physical State: Solid Metal

Color: Silver-gray

Temperature at which the physical state changes

Boiling Point: 3289°C

Steam Pressure: No available data.

Melting Point: 1668°C

Explosion Limits: No available data.

Density: 4.51X10³ kg/m³ (20°)

Solubility

Water: --

Other Solvents: --

Other: Nothing specific.

Section 6 - First Aid Measures

Eye Contact: Not applicable.

Skin Contact: Not applicable.

Inhalation: Not applicable.

Ingestion: Not applicable.

Section 7 – General Handling and Storage

Handling: Wear gloves when handling (to prevent lacerations from the edges)

Section 8 - Engineering Controls & Personal Protective Equipment

Facility Management: Airtight, exhaust management, ventilation systems: not applicable.

Protective Equipment:

Respiratory Protection: Not applicable.

Hand Protection: Not applicable.

Eye Protection: Not applicable.

Clothing: Not applicable.

Other: Not applicable.

Section 9 - Fire Fighting Measures

Fire Department Regulations: Not applicable.

When fire fighting, smother with sand (do not spray with water).

Section 10 - Accidental Release Measures

Not applicable.

Section 11 – Degree and Type of Risk

1. Explosiveness
2. High pressure gas
3. Ignitability
4. Flammability
5. Spontaneous Combustibility
6. Tendency towards oxidization

Not applicable. Fine filings create a risk of ignitability. When fire fighting, smother with sand (do not spray with water).

Section 12 – Degree and Type of Risk

7. Acute Toxicity
8. Food Decomposition
9. Specific Risks (Carcinogen, mutagen, genotoxicity, teratogenicity)
10. Other (Acute toxicity, chronic toxicity, organ abnormality causality, skin absorbability)

Not applicable.

Section 13 - Transportation Information

Specific Transportation Safety Measures and Conditions: Because of its heavy weight, it should be handled by trained laborers.

Section 14 - Disposal

This product should be disposed of according to local Titanium scrap metal disposal regulations.

Section 15 – Other Information

Nothing particular.