

MATERIAL SAFETY DATA SHEET

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Emergency Phone Numbers:
CHEMTREC: 800/424-9300
POISON CENTER: 800/562-8236

Date of Last Revision: 8-14-96

SECTION 1
PRODUCT IDENTIFICATION

CHEMICAL NAME(S) AND SYNONYM(S): Titanium FORMULA: Ti

CHEMICAL FAMILY: Metal CHEM ABSTRACT NO.: 7440-32-6

TSCA: Product is listed. CAL. MOLECULAR WEIGHT:

SECTION 2
INGREDIENTS/SUMMARY OF HAZARDS

<u>INGREDIENT(S)</u>	<u>CAS #</u>	<u>%</u>	<u>TLV</u>	<u>OSHA PEL</u>
Titanium	7440-32-6	100	10mg/m3	15mg/m3

SECTION 3
PHYSICAL DATA

BOILING POINT (°C) : 3287 DENSITY (gm/cc): 4.5
VAPOR PRESSURE: 0 % VOLATILE BY VOLUME: 0
REACTION WITH WATER: None EVAPORATION RATE: 0
SOLUBILITY WITH WATER: Insoluble MELTING POINT (°C): 1660
APPEARANCE/ODOR: Silver-gray crystalline; odorless
OTHER:

SECTION 4

FIRE AND EXPLOSION HAZARD DATA

FLASHPOINT/METHOD: NA

AUTOIGNITION TEMP (°C): Cloud: 330C Layer: 510C

FLAMMABILITY: Flammable solid in powder form.

EXTINGUISHING MEDIA: () Water () Foam (x) Class D Extinguisher
(x) Dry Chemical () CO(2)

(x) Other (specify): Dry sand, Dry ground dolomite

SPECIAL FIRE FIGHTING PROCEDURES: Wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing. DO NOT USE WATER!

UNUSUAL FIRE AND EXPLOSION HAZARDS: NA

SECTION 5

HEALTH HAZARD DATA

TOXICITY DATA: No toxic effects known in this form.

ROUTE(S) OF ENTRY: () Inhalation () Skin () Ingestion

EFFECTS OF OVEREXPOSURE (acute and chronic)

INHALATION: May cause Respiratory Irritation, Pneumoconiosis

DERMAL/EYE CONTACT: May cause Conjunctivitis

OTHER (specify):

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None known

CARCINOGENICITY: NTP: No IARC MONOGRAPHS: No OSHA REGULATED: No

EMERGENCY AND FIRST AID PROCEDURES:

INGESTION: No data available but one should seek medical attention.

INHALATION: Remove victim to fresh air. Administer oxygen. Seek medical attention.

SKIN: Brush material off skin. Wash affected area with soap and water.

EYES: Flush eyes with water for 15 mins. Seek medical attention.

SECTION 6
REACTIVITY DATA

STABILITY: (x) Stable () Unstable
CONDITIONS CONTRIBUTING TO UNSTABILITY:

INCOMPATIBILITY (materials to avoid):

() Water () Combustible materials () Strong bases
() Reducing Agents (x) Strong oxidizing materials (x) Strong acids
(x) Other (specify): Stannous chloride, oxygen, potassium nitrate,
potassium chlorate, CuO, PbO halocarbons, halogens, metal carbonates.

HAZARDOUS DECOMPOSITION PRODUCTS: Titanium oxides

HAZARDOUS POLYMERIZATION: () May occur (x) Will not occur

CONDITIONS TO AVOID: Hazardous Polymerization

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SECTION 7
SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Wearing full protective clothing, isolate the area and insure proper ventilation. Vacuum up spill and place in a container for proper disposal.

WASTE DISPOSAL METHOD: In accordance with regulations.

SECTION 8
SPECIAL PROTECTIVE INFORMATION

RESPIRATORY PROTECTION: (Specify type) NIOSH/MSHA approved respirator

VENTILATION: LOCAL EXHAUST: Laboratory fume hood
MECHANICAL (General):
SPECIAL:

PROTECTIVE GLOVES: Rubber

EYE PROTECTION: (x) Safety Glasses with Side Shields

- conditions) () Chemical Workers Dust-Proof Goggles (under dusting conditions)
- () Gas-Tight Goggles or Equivalent
- () Other (specify):

OTHER PROTECTIVE EQUIPMENT: Maintain sink, safety shower and eyewash fountain in the work area. Wear full protective clothing at all times.

SECTION 9

SPECIAL PRECAUTIONS AND TRANSPORTATION REGULATIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Store in tightly closed

containers in a cool, dry place. Wash hands and face thoroughly.

TRANSPORTATION REQUIREMENTS: No specific D. O. T. requirements.

DOT CLASS:

UN NUMBER:

IMCO CLASS:

OTHER:

ND = No Data Found

NA = Not Applicable

MATERIAL SAFETY DATA SHEET

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