

LTS Research Laboratories, Inc. Material Safety Data Sheet Titanium

1. Product and Company Identification

Trade Name: Titanium Chemical Formula: Ti

Recommended Use: Scientific research and development

Manufacturer/Supplier: LTS Research Laboratories, Inc.

Street: 37 Ramland Road
City: Orangeburg
State: New York
Zip Code: 10962
Country: USA

Tel #: 855-587-2436 / 855-lts-chem

24-Hour Emergency Contact: 800-424-9300 (US & Canada)

+1-703-527-3887 (International)

2. Hazards Identification

Signal Word: Danger



Hazard Statements: H228: Flammable solid

Precautionary Statements: P210: Keep away from heat/ sparks/ open flames/ hot surfaces. No

smoking

P240: Ground/bond container and receiving equipment

P241: Use explosion-proof electrical/ventilating/lighting/equipment

P280: Wear protective gloves/ eye protection/ face protection P370 + P378: In case of fire: Use CO2, dry chemical, or foam for

extinction

P403+P233: Store in a well-ventilated place. Keep container tightly

closed

HMIS Health Ratings (0-4):

Health:

Flammability:

Powder

1

1

0

Flammability:

Physical:

2

1

0

3. Composition

Chemical Family: Metal Additional Names: N/A

Titanium (Ti):

Percentage: 100 wt.% CAS #: 7440-32-6 EC #: 231-142-3

4. First Aid Procedures	
General Treatment:	Seek medical attention if symptoms persist.
Special Treatment:	None
Important Symptoms:	None
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult.
Ingestion:	Give one to two glasses of water and induce vomiting. Never induce vomiting or give anything by mouth to an unconscious person.
Skin:	Wash affected area with mild soap and water. Remove any contaminated clothing.
Eyes:	Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing
	5. Fire and Explosion Hazards Data
Flammability:	Spontaneously flammable in air
Extinguishing Media:	Do not use water for metal fires – use sand, extinguishing powder. Do not use CO ₂ .
Flash Point:	N/A
Autoignition Temperature:	N/A
Spec. Fire Fighting Procedure:	Use full-face, self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes.
	6. Accidental Release Measures
If Material Is Released/Spilled: Environmental Precautions:	Wear appropriate respiratory and protective equipment specified in special protection information. Isolate spill area and provide ventilation. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for disposal. Take care not to raise dust. Isolate runoff to prevent environmental pollution.
	isolate ranor to prevent environmental portation.
	7. Handling and Storage
Handling Conditions:	Handle under dry protective gas. Wash thoroughly after handling.
Storage Conditions: Work/Hygienic Maintenance:	Store in a cool dry place in a tightly sealed container. Do not use tobacco or food in work area. Store under dry inert gas.
	Wash thoroughly before eating and smoking. Do not blow dust off clothing or skin with compressed air.
Ventilation:	Provide sufficient ventilation to maintain concentration at or below threshold limit.

8. Exposure Controls and Personal Protection

Permissible Exposure Limits: N/A
Threshold Limit Value: N/A

Special Equipment: None

Respiratory Protection: Use a respirator with type N95 (USA) or PE (EN 143) cartridges as a

backup to engineering controls. Risk assessment should be performed

to determine if purifying respirators are appropriate. Only use equipment tested and approved under appropriate government

standards.

Protective Gloves: Nitrile rubber, NBR 0.11mm thick.

Penetration time of glove material: 480 minutes

Eye Protection: Full face protection, Safety glasses or goggles

Body Protection: Protective work clothing. Wear close-toed shoes and long

sleeves/pants.

9. Physical and Chemical Characteristics

Color Metallic to dark grey

Form: Powder, Granules, Pellets, Sputtering target, Custom parts

Odor:
Water Solubility:
Boiling Point:
Melting Point:
Autoignition Temperature:
Density:
Molecular weight:
Odorless
Insoluble
3287 °C
1660 °C
250 °C
4.51 g/cc
47.88 g/mol

10. Reactivity tories inc

Stability: Stable under recommended storage conditions

Reacts with: Acids, Strong oxidizing agents, Strong acids, Halogens, Oxygen,

Metals, Carbondioxide(CO2), Halocarbons

Incompatible Conditions: Avoid dust formation. Keep away from open flames, hot

surfaces and sources of ignition. Exposure to air. Exposure to moist air

or water

Hazardous Decomposition Products: Titanium oxides

11. Toxicological Information

Potential Health Effects:

Eyes:May cause irritationSkin:May cause irritationIngestion:May cause irritationInhalation:May cause irritation

Chronic: N/A

Signs & Symptoms: N/A
Aggravated Medical Conditions: N/A

Median Lethal Dose: N/A

Carcinogen: N/A

12. Ecological Information

Ecological data is not available.

13. Disposal Considerations

Dispose of in accordance with local, state, national, and international regulations.

14. Transportation Data

Hazardous: Hazardous as powder only.



Hazard Class:

4.2 Substance liable to spontaneous combustion
Packing Group:

II for powders less than 100 microns in diameter

III for powders greater than 100 microns in diameter

UN Number: UN2546

Proper Shipping Name: Titanium powder, dry

Notes: Wetted powder should be classed 4.1, PGII, UN1352

15. Regulatory Information

Sec 302 Extremely Hazardous: No Sec 304 Reportable Quantities: N/A Sec 313 Toxic Chemicals: No

16. Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

Document Last Revised: 08/25/2023