

LTS Research Laboratories, Inc. Safety Data Sheet Copper Titanium Alloy

1. Product and Company Identification

Trade Name: Copper Titanium Alloy

Chemical Formula: Cu-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

Emergency Contact 800-424-9300 (US & Canada) (ChemTrec) Tel #: +1-703-527-3887 (International)

2. Hazards Identification

Signal Word: Danger



Hazard Statements: H251 Self heating: may catch fire (if powder)

H319+H335 Causes serious eye and respiratory irritation

H401 Toxic to aquatic life

HMIS Health Ratings (0-4):

Health: 1 Flammability: 3 Reactivity: 2

3. Composition

Chemical Family: Metal Alloy

Additional Names: N/A

Copper (Cu):

Percentage: 0-100 wt% CAS #: 7440-50-8 EC #: 231-159-6

Titanium (Ti):

Percentage: 25-75 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 ten minutes.

5. Fire and explosion hazards data

Flammability: Non-flammable, except as powder

Flash Point: N/A
Autoignition Temperature: N/A

Extinguishing Media: Do not use water for metal fires. Use dry extinguishing powder or sand.

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: 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.

Environmental Precautions: Isolate runoff to prevent environmental pollution.

7. Handling and storage

Handling Conditions: Wash thoroughly after handling.

Storage Conditions: Store in a cool dry place in a tightly sealed container.

Work/Hygienic Maintenance: Do not use tobacco or food in work area. 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

TLV.

8. Exposure Controls / Personal Protection

Permissible Exposure Limits: 0.1 mg/m³ as Cu fume (OSHA) Threshold Limit Value: 0.2 mg/m³ as Cu fume (ACGIH)

Special Equipment: None

Respiratory Protection: Dust Respirator, NIOSH approved

Protective Gloves: Rubber gloves

Eye Protection: Safety glasses / goggles

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

sleeves/pants.

9. Physical and Chemical Characteristics Color Metallic brown to grey Powder, Granules, Pellets, Sputtering target, Custom parts Form: Odor: Odorless Water Solubility: Insoluble **Boiling Point:** N/A Melting Point: 1083 °C Density: N/A Molecular weight: N/A 10. Reactivity Stability: Stable under recommended storage conditions Reacts With: Oxidizing agents, Acids **Incompatible Conditions:** Sparks, heat Haz. Decomposition Products: Metal oxide fume 11. Toxicological Information Potential Health Effects: Eyes: Causes serious irritation Skin: May cause irritation Ingestion: Low toxicity by ingestion May cause irritation Inhalation: Chronic: N/A Routes of Entry: Eyes **Target Organs:** N/A Signs & Symptoms of Exposure: N/A **Medical Conditions** N/A Aggravated by Exposure: >5000 mg/kg for mouse by mouth Median Lethal Dose: Classified as a possible carcinogen by NTP, IARC Carcinogen: 12. Ecological Information Toxic to aquatic organisms and may have long lasting harmful effects **Ecological Effects:** on aquatic environments 13. Disposal Considerations Dispose of in accordance with local, state and federal regulations.

14. Transportation Data

Hazardous: Hazardous as powder only.



Hazard Class: 4.1 Flammable Solids

Packing Group: III

UN Number: UN3089

Proper Shipping Name: Metal powders, flammable, n.o.s.

	15. Regulatory Information	
Sec 302 Extremely Hazardous:	No	
Sec 304 Reportable Quantities:	N/A	
Sec 313 Toxic Chemicals:	Yes	
	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.

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