

LTS Research Laboratories, Inc. Safety Data Sheet Cobalt Terbium Alloy

1. Product and Company Identification

Trade Name: Cobalt terbium

Chemical Formula: Co-Tb

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

H260 In contact with water releases flammable gases which may ignite

H334 May cause allergy or asthma symptoms if inhaled

H317 May cause allergic skin reaction

Precautionary Statements: P210 Keep away from heat/sparks/open flames; no smoking

P231+P232 Handle under inert gas. Protect from moisture.

P261 Avoid breathing dust/fume/vapor

P370+P378 In case of fire, use for extinction: Special powder for metal

fires

HMIS Health Ratings (0-4):

Health: 1 Flammability: 3 Physical: 2

3. Composition

Chemical Family: Metal alloy Additional Names: N/A

Cobalt (Co):

Percentage: 0-100 wt% CAS #: 7440-48-4 EC #: 231-158-0

Terbium (Tb):

Percentage: 0-100 wt% CAS #: 7440-27-9 EC #: 231-137-6

4. First Aid Procedures General Treatment: Seek medical attention if symptoms persist. Special Treatment: None Important Symptoms: None Remove victim to fresh air. Supply oxygen if breathing is difficult. Inhalation: Give one to two glasses of water and induce vomiting. Never induce Ingestion: vomiting or give anything by mouth to an unconscious person. Wash affected area with mild soap and water. Remove any Skin: contaminated clothing. Flush eyes with water, blinking often for several minutes. Remove Eyes: contact lenses if present and easy to do. Continue rinsing 5. Firefighting Measures Flammability: Highly flammable as powder May be flammable in bulk form Do not use water for metal fires – use CO₂, sand, extinguishing powder. Extinguishing Media: Spec. Fire Fighting Procedure: Use full-face, self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes. See section 10 for decomposition products. 6. Accidental Release Measures Wear appropriate respiratory and protective equipment specified in If Material Is Released/Spilled: 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. Store apart from materials and conditions listed in section 10. 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. Provide sufficient ventilation to maintain concentration at or below Ventilation: threshold limit. 8. Exposure Controls and Personal Protection 0.1 mg/m³ as Co. long-term value Permissible Exposure Limits: Threshold Limit Value: 0.02 mg/m³ as Co, long-term value Special Equipment: None Respiratory Protection: **Dust Respirator** Protective Gloves: Rubber gloves Eve 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 grey
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts
Odor:	Odorless
Water Solubility:	May react
Boiling Point:	N/A
Melting Point:	>1000 °C
Flash Point:	N/A
Autoignition Temperature:	N/A
Density:	8-9 g/cc
Molecular weight:	N/A
	10. Reactivity
Stability:	Stable under recommended storage conditions
Reacts With:	Oxidizing agents, Water
Incompatible Conditions:	Moisture
Hazardous Decomposition Products:	Metal oxide fume
	11. Toxicological Information
Potential Health Effects:	
Eyes:	May cause irritation
Skin:	May cause irritation, allergic reaction
Ingestion:	May cause irritation
Inhalation:	May cause irritation, allergy or asthma symptoms
Chronic:	N/A
	- Research
Signs & Symptoms:	N/A the konstonies loc
Aggravated Medical Conditions:	N/A
Median Lethal Dose:	6171 mg/kg for rat by mouth as Co
Carcinogen:	N/A
	12. Ecological Information
Aquatic Toxicity:	Low
Persistent Bioaccumulation Toxicity:	No
Very Persistent, Very Bioaccumulative:	No
Notes:	N/A

13. Disposal Considerations

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

14. Transportation Data

Hazardous: Hazardous for transportation.



Hazard Class: 4.1 Flammable solids Packing Group: 4.1 Flammable solids III, II if > 90% Tb

UN Number: UN3178 (bulk), UN3089 (powder)

Proper Shipping Name: Flammable solid, inorganic, n.o.s. (Cobalt terbium)
Metal powders, flammable, n.o.s. (Cobalt terbium)

15. Regulatory Information

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

Sec 313 Toxic Chemicals: Component - Co

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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