

LTS Research Laboratories, Inc. Safety Data Sheet Cobalt Tantalum Zirconium Alloy

1. Product and Company Identification

Trade Name: Cobalt Tantalum Zirconium Alloy

Chemical Formula: Co-Ta-Zr

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

H317: May cause an allergic skin reaction

H319 Causes serious eye irritation

H334: May cause allergy or asthma symptoms or breathing difficulties

if inhaled

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/light/equipment

P261 Avoid breathing dust/fume/vapor

P280: Wear protective gloves/protective clothing/eye protection/face

protection

P284: Wear respiratory protection

P305+P351 If in eyes: Rinse cautiously with water for several minutes. P342+P311: If experiencing respiratory symptoms: Call a POISON

CENTER or doctor/physician

P363: Wash contaminated clothing before reuse

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4): Powder Bulk

Health: 1 0 Flammability: 3 0 Physical: 2 0

3. Composition		
Chemical Family:	Alloy	
Additional Names:	None	
Cobalt (Co):		
Percentage:	0-100 wt%	
CAS #:	7440-48-4	
EC #:	231-158-0	
Tantalum (Ta):		
Percentage:	0-100 wt%	
CAS #:	7440-25-7	
EC #:	231-135-5	
Zirconium (Zr):		
Percentage:	0-100 wt%	
CAS #:	7440-67-7	
EC #:	231-176-9	
	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:	Seek medical attention.	
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. Firefighting Measures	
Flammability:	Non-flammable, except as powder	
Extinguishing Media:	Do not use water for metal fires – use CO ₂ , sand, extinguishing powder	
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.	
	decomposition products.	
	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. 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.	
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: **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	N/A
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts
Odor:	Odorless
Water Solubility:	Insoluble
Boiling Point:	N/A

Water Solubility:

Insol
Boiling Point:

M/A
Melting Point:

N/A
Flash Point:

N/A
Autoignition Temperature:

N/A
Molecular weight:

N/A

10. Reactivity

Stability:	Stable under recommended storage conditions
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Reacts With: Oxidizing agents, acids

Incompatible Conditions: Protect against electrostatic charges, hydrogen fluoride

Hazardous Decomposition Products: Metal oxide fume

11. Toxicological Information

Potential Health Effects:

Eyes: Causes serious eye irritation
Skin: May cause an allergic skin reaction

Ingestion: May cause irritation

Inhalation: May cause allergy or asthma symptoms or breathing difficulties if

inhaled

Chronic: N/A

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

Median Lethal Dose: N/A

Carcinogen: N/A

12. Ecological Information

Aquatic Toxicity: N/A
Persistent Bioaccumulation Toxicity: N/A
Very Persistent, Very Bioaccumulative: N/A

Notes: Do not allow material to be released to the environment without proper

governmental permits.

Do not allow product to reach any water sources.

Avoid transfer into the environment.

13. Disposal Considerations

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

14. Transportation Data

Hazardous: Hazardous as powder only.



Hazard Class: 4.1 Flammable solids

Packing Group: II

UN Number: UN3089

Proper Shipping Name: Metal powders, flammable, n.o.s. (Cobalt Tantalum Zirconium Alloy)

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.

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