

LTS Research Laboratories, Inc. Safety Data Sheet Zirconium chromium alloy

1. Product and Company Identification

Trade Name: Zirconium chromium alloy

Chemical Formula: ZrCr

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

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

+1-703-527-3887 (International)

2. Hazards Identification

Signal Word: None

Hazard Statements: None

Precautionary Statements: None

HMIS Health Ratings (0-4):

Health: Flammability: Physical:

3. Composition

Chemical Family: Alloy Additional Names: N/A

Zirconium (Zr):

Percentage: 0-100 wt% CAS #: 7440-67-7 EC #: ##

Chromium (Cr):

Percentage: 0-100 wt% CAS #: 7440-47-3 EC #: 231-47-3

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: Seek Medical Attention. Ingestion: 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: Non-flammable, except as powder Extinguishing Media: Do not use water for metal fires – use CO₂, 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. 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: 1 mg/m³ as Cr, long-term value Threshold Limit Value: 0.5 mg/m³ as Cr, long-term value

Special Equipment: None

Respiratory Protection:

Protective Gloves:

Rubber gloves Not required
Eye Protection:

Safety glasses or goggles

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

sleeves/pants.

9. P	9. Physical and Chemical Characteristics	
Color	Grey metallic	
Form:	Granules, Pellets, Sputtering target, Custom parts	
Odor:	Odorless	
Water Solubility:	Insoluble	
Boiling Point:	N/A	
Melting Point:	1600-1900 °C	
Flash Point: Autoignition Temperature:	N/A N/A	
		Density:
Molecular weight:	N/A	
	10. Reactivity	
Stability:	Stable under recommended storage conditions	
Reacts With:	Oxidizing agents	
Incompatible Conditions:	None	
Hazardous Decomposition Products:	Metal oxide fume	
	11. Toxicological Information	
Potential Health Effects:		
Eyes:	May cause irritation	
Skin:	May cause irritation	
Ingestion:	May cause irritation	
Inhalation:	May cause irritation	
Chronic:	N/A	
	Bachach	
Signs & Symptoms:	N/A Research	
Aggravated Medical Conditions:	N/A	
Median Lethal Dose:	N/A	
Carcinogen:	ACGIH A4: Not classifiable as a human carcinogen: Inadequate data	
	IARC-3: Not classifiable as to carcinogenicity to humans.	
(Inhalation)	EPA-A: human carcinogen: sufficient evidence from epidemiologic	
	studies to support a causal association between exposure and cancer	
(Inhalation)	EPA-K: Known human carcinogens	
(Oral)	EPA-D: Not classifiable as to human carcinogenicity: inadequate	
(Oral)	EPA-CBD: Carcinogenic potential cannot be determined.	
	12. Ecological Information	
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Aquatic Toxicity:	Low	
Persistent Bioaccumulation Toxicity:	No No	
Very Persistent, Very Bioaccumulative:	No N/A	
Notes:	N/A	
	13. Disposal Considerations	

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

Hazardous:	Not hazardous for transportation.	
Hazard Class:	N/A	
Packing Group:	N/A	
UN Number:	N/A	
Proper Shipping Name:	N/A	
	15. Regulatory Information	
Sec 302 Extremely Hazardous:	No	
Sec 304 Reportable Quantities:	N/A	
Sec 313 Toxic Chemicals:	Yes	

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: 07/10/2015

