

LTS Research Laboratories, Inc. Safety Data Sheet Aluminum Chromium

1. Product and Company Identification

Trade Name: Aluminum chromium

Chemical Formula: Al-Cr

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: H250: Catches fire spontaneously if exposed to air

H261: In contact with water releases flammable gas

H351: Suspected of causing cancer

Precautionary Statements: P201: Obtain special instructions before use

P202: Do not handle until all safety precautions have been read and

understood

P210: Keep away from heat/sparks/open flames/hot surfaces – No

smoking

P222: Do not allow contact with air

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

P308+P313: IF exposed or concerned: Get medical advice/attention P370+P378: In case of fire: Use special powder for metal fires for

extinction

P405: Store locked up

P422: Store contents under inert gas

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health:
Flammability:
Physical:
Powder

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3. Composition	
Chemical Family:	Metal alloy
Additional Names:	None
Aluminum (Al):	
Percentage:	0-100 wt%
CAS #:	7429-90-5
EC #: Chromium (Cr):	231-072-3
Percentage:	0-100 wt%
CAS #:	7440-47-3
EC #:	231-157-5
	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
Eyes:	contaminated clothing. Flush eyes with water, blinking often for several minutes. Remove
Lycs.	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 powde
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
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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:	Handle under dry protective gases. Wash thoroughly after handling.
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Store under dry inert gas. 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: 0.5 mg/m³ as Cr, long-term value Threshold Limit Value: 0.5 mg/m³ as Cr, long-term value

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.

Eye Protection: Safety glasses or goggles

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

sleeves/pants.

9. Physical and Chemical Characteristics

Color Grey

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

Odor:
Water Solubility:
Boiling Point:
Melting Point:
N/A
Melting Point:
N/A
Flash Point:
N/A
Autoignition Temperature:
N/A
Density:
N/A

Molecular weight:

10. Reactivity

Stability: Stable under recommended storage conditions Reacts With: Acids, Bases, Halocarbons, Oxidizing agents

N/A

Incompatible Conditions: Air, Water/moisture Hazardous Decomposition Products: Metal oxide fume

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: EPA-A: human carcinogen: sufficient evidence from epidemiologic

studies to support a causal association between exposure and cancer

IARC-3: Not classifiable as to carcinogenicity to humans.

(Inhalation)EPA-K: Known human carcinogens

Oral)EPA-D: Not classifiable as to human carcinogenicity: inadequate human and animal evidence of carcinogenicity or no data are available.

(Oral)EPA-CBD: Carcinogenic potential cannot be determined. ACGIH A4: Not classifiable as a human carcinogen: Inadequate data

on which to classify the agent in terms of its carcinogenicity in humans

and/or animals.

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 as powder only.





Hazard Class: 4.3 Substances which, in contact with water, emit flammable gases **Secondary Class:**

4.1 Flammable solids, self-reactive substances and solid desensitized

explosives.

Packing Group: II

UN Number: UN3208

Proper Shipping Name: Metallic substance, water reactive, n.o.s. (Aluminum chromium)

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15. Regulatory	Information inc.

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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