

## LTS Research Laboratories, Inc. Safety Data Sheet Chromium

# 1. Product and Company Identification

Trade Name: Chromium

Chemical Formula: Cr

Recommended Use: Scientific research and development

Manufacturer/Supplier: LTS Research Laboratories, Inc.

Street: 2001 Oaks Pkwy

City: Belmont State: North Carolina

Zip Code: 28012 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: Warning



Hazard Statements: H351: Suspected of causing cancer

Precautionary Statements: P281: Use personal protective equipment as required

P201: Obtain special instructions before use

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

understood

P308+P313: IF exposed or concerned: Get medical advice/attention

P405: Store locked up

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4): Powder Bulk Health: 1 0

Flammability: 0 0 Physical: 0 0

## 3. Composition

Chemical Family: Metal Additional Names: None

Chromium (Cr)

Percentage: 100 wt% CAS No: 7440-47-3 EC No: 231-157-5

4. First Aid Procedures	
General Treatment:	Seek medical attention if symptoms persist.
Special Treatment:	None
Important Symptoms:	N/A
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult. Seek medical attention.
Ingestion:	Rinse mouth with water. Do not induce vomiting. Seek medical attention.
Skin:	Wash affected area with mild soap and water. Remove any contaminated clothing. Seek medical attention.
Eyes:	Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medica attention.
	5. Firefighting Measures
Flammability:	Non-flammable, except as powder
Extinguishing Media:	No special restrictions – use suitable extinguishing agent for surrounding material and type of fire. Do not use water for metal fires use CO <sub>2</sub> , 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: 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

Check gloves prior to each use

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:
1857 °C
Flash Point:
Autoignition Temperature:
N/A
N/A

Density:  $7.14 \text{ g/cm}^3$ 

Molecular weight: 52 g/mol Research

10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With: Strong acids, Strong oxidizing agents

Incompatible Conditions: Exposure to air

Hazardous Decomposition Products: None under recommended use conditions

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

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

Median Lethal Dose: N/A

Carcinogen: 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.

(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

IARC-3: Not classifiable as to carcinogenicity to humans

Aquatic Toxicity:

N/A

Persistent Bioaccumulation Toxicity:

Very Persistent, Very Bioaccumulative:

N/A

Notes:

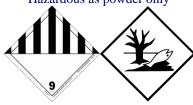
N/A

## 13. Disposal Considerations

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

#### 14. Transportation Data

Hazardous: Hazardous as powder only



Hazard Class: 9
Packing Group: III
UN Number: UN3077

Proper Shipping Name: Environmentally hazardous substance, solid, n.o.s. (chromium)

# 15. Regulatory Information

Sec 302 Extremely Hazardous:

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.

Document Last Revised: 08/14/2023