

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

### 1. Product and Company Identification

Trade Name: Chromium Oxide

Chemical Formula: Cr<sub>2</sub>O<sub>3</sub>

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: None Hazard Statements: None Precautionary Statements: None

HMIS Health Ratings (0-4):

Health: Flammability:

Physical:

2 Research

### 3. Composition

Chemical Family: Ceramic

Additional Names: Chromium(III) oxide, Chromium sesquioxide, Chromia, Chrome green,

Eskolaite

Chromium Oxide (Cr<sub>2</sub>O<sub>3</sub>)

Percentage: 100 wt% CAS No: 1308-38-9 EC No: 215-160-9

## 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 medical

attention.

5. Firefighting Measures Flammability: Non-flammable 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.

Use full-face, self-contained breathing apparatus with full protective Spec. Fire Fighting Procedure:

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.

Do not use tobacco or food in work area. Wash thoroughly before Work/Hygienic Maintenance:

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

0.5 mg/m<sup>3</sup> as Cr, long-term value Permissible Exposure Limits:

Threshold Limit Value: N/A

Extinguishing Media:

Special Equipment: None

Respiratory Protection: **Dust Respirator** Protective Gloves: Rubber gloves

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 Pale to dark green

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

Odor: **Odorless** Water Solubility: Insoluble **Boiling Point:** 4000 °C Melting Point: 2435 °C Flash Point: N/A Autoignition Temperature: N/A

Density:  $5.21 \text{ g/cm}^3$ Molecular weight: 151.99 g/mol

10. Reactivity	
Stability:	Stable under recommended storage conditions
Reacts With:	Oxidizing agents. Metals
Incompatible Conditions:	Avoid moisture. Avoid dust formation
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:	5000 mg/kg for rat by mouth
Carcinogen:	N/A
	12. Ecological Information
Aquatic Toxicity:	N/A
Persistent Bioaccumulation Toxicity:	No
Very Persistent, Very Bioaccumulative:	No
Notes:	N/A C Research
	13. Disposal Considerations
Dispose of in accordance with local, state,	national, and international regulations.
	14. Transportation Data
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

### 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

