

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

1. Product and Company Identification

Trade Name: Cobalt Chromium oxide

Chemical Formula: CoCr₂O₄

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: Warning



Hazard Statements: H302+H332: Harmful if swallowed or if inhaled

H317: May cause an allergic skin reaction H351: Suspected of causing cancer

Precautionary Statements: P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

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

protection

P301+P312: IF SWALLOWED: Call a POISON CENTER or

doctor/physician if you feel unwell

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest

in a position comfortable for breathing

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health: 2 Flammability: 0 Physical: 1

3. Composition

Chemical Family: Cerami

Additional Names: Cobalt Chromate, cobalt dichromium tetraoxide

Cobalt Chromium Oxide (CoCr₂O₄):

Percentage: 100 wt% CAS #: 12016-69-2 EC #: 234-613-1

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: 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 Extinguishing Media: No special restrictions – use suitable extinguishing agent for surrounding material and type of fire. 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 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. 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 Permissible Exposure Limits: 0.1 mg/m3 as Co, metal dust and fume, 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 P100 (USA) or P3 (EN143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards. Protective Gloves: Rubber gloves Eye Protection: Safety glasses or goggles Protective work clothing. Wear close-toed shoes and long **Body Protection:**

sleeves/pants.

9. P	Physical and Chemical Characteristics			
Color	Greenish blue, Teal			
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts			
Odor:	Odorless			
Water Solubility:	Insoluble N/A			
Boiling Point:				
Melting Point:	N/A N/A N/A N/A			
Flash Point:				
Autoignition Temperature:				
Density:				
Molecular weight:	226.93 g/mol			
	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:	Harmful			
Inhalation:	Harmful			
Chronic:	N/A			
	Besearch			
Signs & Symptoms:	N/A honetories, Inc.			
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:	N/A			
	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			
51,1,0111001.				

N/A

Proper Shipping Name:

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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