

LTS Research Laboratories, Inc. Safety Data Sheet Nickel Chromite

1. Product and Company Identification

Trade Name: Chromium nickel oxide

Chemical Formula: NiCr₂O₄

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 #: 845-587-2436 / 845-lts-chem

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

+1-703-527-3887 (International)

2. Hazards Identification

Signal Word: Warning



Hazard Statements: H317 May cause allergic skin reaction

H350 May cause cancer

Precautionary Statements: P261 Avoid breathing dust/fume/vapor

P280 Wear protective clothing/eye protection P363 Wash contaminated clothing before reuse

HMIS Health Ratings (0-4):

Health: 1 Flammability: 0 Physical: 0

3. Composition

Chemical Family: Ceramic

Additional Names: Chromium nickel oxide, Nickel chromium oxide, Chromium nickelite

Nickel chromite (NiCr₂O₄):

Percentage: 100 wt% CAS #: 12018-18-7 EC #: 234-636-7

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: Give one to two glasses of water and induce vomiting. Never induce Ingestion: vomiting or give anything by mouth to an unconscious person. 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 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 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. Provide sufficient ventilation to maintain concentration at or below Ventilation: threshold limit. 8. Exposure Controls and Personal Protection 1 mg/m³ as Cr, long-term value Permissible Exposure Limits: Threshold Limit Value: 0.2 mg/m³ as Ni, inhalable fraction, long-term value Special Equipment:

Respiratory Protection:
Protective Gloves:

Dust Respirator
Rubber gloves

Eye Protection: Safety glasses or goggles

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

sleeves/pants.

9. P	Physical and Chemical Characteristics
Color	Green
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts
Odor:	Odorless
Water Solubility:	Insoluble
Boiling Point:	N/A
Melting Point:	1984 °C
Flash Point:	N/A
Autoignition Temperature:	N/A
Density:	6.67 g/cc
Molecular weight:	226.70 g/mol
	10. Reactivity
Stability:	Stable under recommended storage conditions
Reacts With:	None
Incompatible Conditions:	None
Hazardous Decomposition Products:	Metal oxide fume
	11. Toxicological Information
Potential Health Effects:	
Eyes:	Causes irritation
Skin:	Causes irritation
Ingestion:	May cause irritation
Inhalation:	May cause irritation
Chronic:	Nickel and nickel compounds may cause a form of dermatitis known as
	nickel itch. They may also cause intestinal disorders, convulsions and
	asphyxia. Airborne nickel contaminated dusts are regarded as
	carcinogenic to the respiratory tract.
Signs & Symptoms:	N/A
Aggravated Medical Conditions:	N/A
Aggravated incurcal conditions.	IVA
Median Lethal Dose:	N/A
Carcinogen:	Causes cancer
	IARC-1, NTP-R, ACGIH-A1
	12. Ecological Information
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:	Not hazardous for transportation
Hazard Class:	N/A
Packing Group:	N/A
UN Number:	N/A
Proper Shipping Name:	N/A
Proper Shipping Name:	11/74

No
N/A
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: 04/06/2015

