

LTS Research Laboratories, Inc. Safety Data Sheet Chromium Nitride

1. Product and Company Identification

Trade Name: Chromium nitride

Chemical Formula: CrN

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: Harmful if swallowed

H317: May cause an allergic skin reaction

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

P264: Wash skin thoroughly after handling

P270: Do not eat, drink or smoke when using this product

P272: Contaminated work clothing should not be allowed out of the

workplace

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

protection

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce

vomiting

P302+P352: IF ON SKIN: Wash with soap and water

P312: Call a POISON CENTER or doctor/physician if you feel unwell

P321: Specific treatment P330: Rinse mouth

P333+P313: If skin irritation or a rash occurs: Get medical

advice/attention

P363: Wash contaminated clothing before reuse

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

None

HMIS Health Ratings (0-4):

Health: 2 Flammability: 0 Physical: 0

3. Composition Chemical Family: Ceramic Additional Names: Chromium (III) nitride Chromium nitride (CrN): Percentage: 100 wt% CAS #: 24094-93-7 EC #: 246-016-3 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: Wash mouth. Seek Medical Attention. Wash affected area with mild soap and water. Remove any Skin: contaminated clothing. Seek medical attention if symptoms persist Eyes: Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention if symptoms persist 5. Firefighting Measures Non-flammable Flammability: Extinguishing Media: No special restrictions – use suitable extinguishing agent for surrounding material and type of fire. 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. Store in a cool dry place in a tightly sealed container. Store apart from **Storage Conditions:** 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. Provide sufficient ventilation to maintain concentration at or below Ventilation: threshold limit.

8. Exposure Controls and Personal Protection

Permissible Exposure Limits: N/A

Threshold Limit Value: 0.5 mg/m³ as CrN, long-term value

Special Equipment: None

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. Physical and Chemical Characteristics

Color Metallic silver- Black

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

Odor: **Odorless** Water Solubility: Insoluble **Boiling Point:** N/A Melting Point: N/A Flash Point: N/A Autoignition Temperature: N/A Density: 5.9 g/cc Molecular weight: 66.003 g/mol

10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With: Oxidizing agents, acids

Incompatible Conditions: Incompatible products, excess heat

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: N/A

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.

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:	No	

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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