## Heegermaterials

Heeger Materials Inc. Safety Data Sheet Chromium Nitride Powder

## 1. Product and Company Identification

Trade Name: Chromium nitride powder

Chemical Formula: CrN

Recommended Use: Scientific research and development

Manufacturer/Supplier: Heeger Materials Inc.

Street: 230 Steele St Denver

State: CO 80206 Country: United States

Tel #: 925-385-8104

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

+1-703-527-3887 (International)

## 2. Hazards Identification

Signal Word:

Warning 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	
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult.	
Ingestion:	Wash mouth. Seek Medical Attention.	
Skin:	Wash affected area with mild soap and water. Remove any	
Farm	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	
160-	attention if symptoms persist	
000	5. Firefighting Measures	
Flammability:	Non-flammable	
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.	
Environmental Descritions	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	
<i>y &amp;</i>	eating and smoking. Do not blow dust off clothing or skin with	
	compressed air.	
Ventilation:	compressed air.  Provide sufficient ventilation to maintain concentration at or below threshold limit.	

## 8. Exposure Controls and Personal Protection Permissible Exposure Limits: Threshold Limit Value: 0.5 mg/m<sup>3</sup> as CrN, long-term value Special Equipment: None Respiratory Protection: **Dust Respirator** Protective Gloves: Rubber gloves Eve Protection: Safety glasses or goggles **Body Protection:** Protective work clothing. Wear close-toed shoes and long sleeves/pants. 9. Physical and Chemical Characteristics Metallic silver- Black Color 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 66.003 g/mol Molecular weight: 10. Reactivity Stable under recommended storage conditions Stability: Oxidizing agents, acids Reacts With: **Incompatible Conditions:** Incompatible products, excess heat Metal oxide fume Hazardous Decomposition Products: Is Inc. 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 N/A Signs & Symptoms: Aggravated Medical Conditions: N/A Median Lethal Dose: N/A N/A Carcinogen: 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 ne u. was intended activity. It is the soon mandatory regulations men.

Document Last Revised: 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.