Heegermaterials

Heeger Materials Inc. Safety Data Sheet **Chromium Silicide**

1. Product and Company Identification

Trade Name: **Chromium Silicide**

Chemical Formula: CrSi₂

Recommended Use: Scientific research and development

Manufacturer/Supplier: Heeger Materials Inc.

Street: 230 Steele St Denver

CO 80206 City: Country: **USA**

Tel #: 925-385-8104

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

+1-703-527-3887 (International)

2. Hazards Identification

Danger



Hazard Statements: H315 Causes skin irritation

H319 Causes serious eye irritation

H334: May cause allergy or asthma symptoms or breathing difficulties

if inhaled

H317: May cause an allergic skin reaction

H335: May cause respiratory irritation

Precautionary Statements: P261 Avoid breathing dust/fume/vapor

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

protection

P284: Wear respiratory protection

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do –

continue rinsing

P342+P311: If experiencing respiratory symptoms: Call a POISON

CENTER or doctor/physician

P363: Wash contaminated clothing before reuse.

P405: Store locked up

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4): Powder

Bulk Health: 0 1 Flammability: 0 1 Physical:

3. Composition Chemical Family: Additional Names: Chromium(II) silicide, Chromium disilicide Chromium silicide (CrSi₂): Percentage: 100 wt% CAS #: 12018-09-6 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: Seek medical attention Skin: Wash affected area with mild soap and water. Remove any contaminated clothing. Flush eyes with water, blinking often for several minutes. Remove Eyes: contact lenses if present and easy to do. Continue rinsing Ceo 5. Firefighting Measures Flammability: Not flammable as powder No special restrictions – use suitable extinguishing agent for Extinguishing Media: 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 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. Store in a cool dry place in a tightly sealed container. Store apart from **Storage Conditions:** 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: 1 mg/m³ as Cr, long-term value Threshold Limit Value: 0.5 mg/m³ as Cr, 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 Grey

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

Odor: **Odorless** Water Solubility: Insoluble **Boiling Point:** N/A Melting Point: 1490 °C Flash Point: N/A Autoignition Temperature: N/A Density: 4.7 g/cc Molecular weight 108.17 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: Causes serious eye irritation
Skin: Causes skin irritation
Ingestion: May cause irritation
Inhalation: May cause irritation

Chronic: Chromium powder, chromium (II) and chromium (III) compounds may

cause nausea, diarrhea, vomiting, skin and eye irritation and pneumoconiosis. Although less likely than Cr (VI) compounds, the NTP considers all chromium to be potentially carcinogenic. Inorganic silicon compounds may be acute inhalation irritants.

Prolonged inhalation may cause pulmonary fibrosis known as silicosis.

Signs & Symptoms: N/A
Aggravated Medical Conditions: N/A

Median Lethal Dose: N/A

Carcinogen: IARC-3: Not classifiable as to carcinogenicity to humans.

ACGIH A4: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of its carcinogenicity in humans

and/or animals.

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
	15. Regulatory Information
Sec 302 Extremely Hazardous:	No
Sec 304 Reportable Quantities:	N/A
Sec 313 Toxic Chemicals:	Yes
80	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.

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