## Heegermaterials

Heeger Materials Inc. Safety Data Sheet Cobalt Silicide

1. Product and Company Identification		
Trade Name:	Cobalt silicide	
Chemical Formula:	CoSi <sub>2</sub>	
Recommended Use:	Scientific research and development	
Manufacturer/Supplier:	Heeger Materials Inc.	
Address:	230 Steele St Denver	
	CO 80206	
	United States	
Tel #:	+925-385-8104	
24-Hour Emergency Contact:	800-424-9300 (US & Canada)	
	+1-703-527-3887 (International)	
- Kr	2. Hazards Identification	
Signal Word:	Danger	
Hazard Statements:	H315 Causes skin irritation. H319 Causes serious eye irritation. H335: May cause respiratory irritation H317: May cause an allergic skin reaction H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled	
Precautionary Statements:	<ul> <li>P261 Avoid breathing dust/fume/gas/mist/vapours/spray.</li> <li>P280: Wear protective gloves/protective clothing/eye protection/face protection</li> <li>P284: Wear respiratory protection</li> <li>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P405: Store locked up</li> <li>P501: Dispose of contents/container in accordance with local/regional/national/international regulations None</li> </ul>	
HMIS Health Ratings (0-4):		
Health:	2	
Flammability:	1	
Physical:	1	

Ceramic
Cobalt disilicide
100 wt%
12017-12-8
234-616-8
4. First Aid Procedures
Seek medical attention if symptoms persist.
None
None
Remove victim to fresh air. Supply oxygen if breathing is difficult.
Seek Medical Attention.
Wash affected area with mild soap and water. Remove any
contaminated clothing.
Flush eyes with water, blinking often for several minutes. Remove
contact lenses if present and easy to do. Continue rinsing
5. Firefighting Measures
Non-flammable
No special restrictions – use suitable extinguishing agent for
surrounding material and type of fire.
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
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.
Isolate runoff to prevent environmental pollution.
7. Handling and Storage
Wash thoroughly after handling.
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
eating and smoking. Do not blow dust off clothing or skin with
compressed air.
Provide sufficient ventilation to maintain concentration at or below threshold limit.

8. Exposure Controls and Personal Protection		
Permissible Exposure Limits:	0.1 mg/m <sup>3</sup> as Co, long-term value	
Threshold Limit Value:	0.02 mg/m <sup>3</sup> as Co, 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	
Body Protection:	Protective work clothing. Wear close-toed shoes and long	
	sleeves/pants.	
9.	Physical and Chemical Characteristics	
Color	Grey	
Form: Odor:	Powder Odorless	
Water Solubility:	Insoluble	
Boiling Point:	N/A	
Melting Point:	1277 °C	
Flash Point:	N/A	
Autoignition Temperature:	N/A	
Density:	5.3 g/cc	
Molecular weight:	115.10 g/mol	
	10. Reactivity	
Stability:	Stable under recommended storage conditions	
Reacts With:	Acids, Oxidizing agents	
Incompatible Conditions: Hazardous Decomposition Products:	None Silicon oxide, Cobalt oxides	
Trazardous Decomposition i roducts.	Sincon oxide, cobait oxides	
	11. Toxicological Information	
Potential Health Effects:		
Eyes: Skin:	Causes serious eye damage Causes skin irritation	
Ingestion:	May cause irritation	
Inhalation:	May cause irritation	
Chronic:	N/A	
Signs & Symptoms:	N/A	
Aggravated Medical Conditions:	N/A	
Median Lethal Dose:	N/A	
Carcinogen:	IARC-2B: Possibly carcinogenic to humans: limited evidence in hum	
	in the absence of sufficient evidence in experimental animals.	
	ACGIH A3: Animal carcinogen: Agent is carcinogenic in experiment	
	animals at a relatively high dose, by routes of administration, at sites,	
	<ul> <li>histologic types, or by mechanisms not considered relevant to worker</li> <li>exposure. Available epidemiologic studies do not confirm an increase</li> </ul>	
	risk of cancer in exposed humans. Available evidence suggests that the	
	agent is not likely to cause cancer in humans except under uncommo	
	or unlikely routes or level of exposure.	

	12. Ecological Information
Aquatic Toxicity: Persistent Bioaccumulation Toxicity: Very Persistent, Very Bioaccumulative: Notes:	Moderate No No Do not allow product to reach any water sources. Danger to drinking water if even extremely small quantities leak into the ground.
	13. Disposal Considerations
Dispose of in accordance with local, state, r	national, and international regulations.
	14. Transportation Data
Hazardous: Hazard Class: Packing Group: UN Number: Proper Shipping Name:	Not hazardous for transportation. N/A N/A N/A N/A
H.	15. Regulatory Information
Sec 302 Extremely Hazardous: Sec 304 Reportable Quantities: Sec 313 Toxic Chemicals:	No N/A Yes 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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