

XI'AN FUNCTION MATERIAL GROUP CO., LTD

Material Safety Data Sheet Cerium Silicide

1. Product and Company Identification

Trade Name: Cerium silicide

Chemical Formula: CeSi₂

Recommended Use: Scientific research and development

Manufacturer/Supplier: XI'AN FUNCTION MATERIAL GROUP CO., LTD

Street: No. 69, Gazelle Valley, High-Tech Zone

City: XI'AN
State: Shaanxi
Zip Code: 710077
Country: China

Tel #: +86-29-88993870/+86-13519132051

2. Hazards Identification

Signal Word: Warning



Hazard Statements: H228: Flammable solid

Precautionary Statements: P210: Keep away from heat/sparks/open flames/hot surfaces – No

smoking

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

protection

P370+P378: In case of fire: Use CO₂, sand, extinguishing powder for

extinction

HMIS Health Ratings (0-4): Powder Bulk

 Health:
 1
 1

 Flammability:
 3
 1

 Physical:
 1
 1

3. Composition

Chemical Family: Ceramic
Additional Names: Cerium silicide

Cerium silicide (CeSi₂):

Percentage: 100 wt% CAS #: 12014-85-6 EC #: 234-602-1 4. First Aid Procedures

General Treatment: Seek medical attention if symptoms persist.

Special Treatment: None Important Symptoms: None

Skin:

Inhalation: Remove victim to fresh air. Supply oxygen if breathing is difficult. Ingestion:

Give one to two glasses of water and induce vomiting. Never induce

vomiting or give anything by mouth to an unconscious person.

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

5. Firefighting Measures

Flammability: Flammable as powder.

Do not use water for metal fires – use CO₂, sand, extinguishing powder. Extinguishing Media: 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.

Is olate runoff to prevent environmental pollution. **Environmental Precautions:**

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.

Ventilation: Provide sufficient ventilation to maintain concentration at or below

threshold limit.

8. Exposure Controls and Personal Protection

Permissible Exposure Limits: N/A Threshold Limit Value: N/A

Special Equipment: None

Respiratory Protection: Use a respirator with type N95 (USA) or PE (EN 143) cartridges as a

> backup to engineering controls. Risk assessment should be performed to determine if purifying respirators are appropriate. Only use equipment tested and approved under appropriate government

standards.

Protective Gloves: Rubber gloves

Eye Protection: Safety glasses or goggles

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

sleeves/pants.

9. Ph	ysical and Chemical Characteristics			
Color	Grey			
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:	N/A			
Molecular weight:	N/A			
	10. Reactivity			
Stability:	Stable under recommended storage conditions			
Reacts With:	Mineral acids, Oxidizing agents			
Incompatible Conditions:	None			
Hazardous Decomposition Products:	Metal oxide fume			
	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			
Signs & Symptoms:	N/A			
Aggravated Medical Conditions:	N/A			
Median Lethal Dose:	N/A			
Carcinogen:	N/A			
<u> </u>	12. Ecological Information			
Aquatic Toxicity:	N/A			
Persistent Bioaccumulation Toxicity:	N/A			
Very Persistent, Very Bioaccumulative:				
Notes:	N/A			
	13. Disposal Considerations			

Dispose of in accordance with local, state, national, and international regulations.

14. Transportation Data

Hazardous: Hazardous as powder.

FLAMMABLE SOLID

Hazard Class: 4.1 Flammable solids, self-reactive substances and solid desensitized

explosives.

Packing Group:

UN Number: UN3089

Proper Shipping Name: Metal powder, flammable, n.o.s. (Cerium Silicide)

15. Regulatory Information

Sec 302 Extremely Hazardous: No Sec 304 Reportable Quantities: N/A Sec 313 Toxic Chemicals: No

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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