

Gadolinium(II) Silicide		Pricing >
Signal Word	N/A	
Hazard Statements	N/A	
Hazard Codes	N/A	
Risk Codes	N/A	
Safety Statements	N/A	
Transport Information	NONH for all modes of transport	

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SAFETY DATA SHEET

Date Accessed: 05/04/2024

Date Revised: 01/15/2022

SECTION 1. IDENTIFICATION

Product Identifiers: All applicable American Elements product codes for CAS #12134-75-7

Relevant identified uses of the substance:
Scientific research and development

Supplier details:
American Elements
10884 Weyburn Ave.
Los Angeles, CA 90024
Tel: +1 310-208-0551
Fax: +1 310-208-0351

Emergency telephone number:
Domestic, North America +1 800-424-9300
International +1 703-527-3887

SECTION 2. HAZARDS IDENTIFICATION

Signal Word: None Hazard Statements: None
Precautionary Statements: None HMIS Health
Ratings (0-4): Health: 1 Flammability: 0 Physical: 1

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Family: Ceramic Additional Names: None
Gadolinium silicide Gadolinium silicide (GdSi₂):
Percentage: 100 wt% CAS #: 12134-75-7 EC #:
235-216-6

SECTION 4. FIRST AID MEASURES

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. Eyes: Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing

SECTION 5. FIREFIGHTING MEASURES

Flammability: Non-flammable, except as powder
Extinguishing Media: Do not use water for metal fires – use CO₂, sand, extinguishing powder. 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.

SECTION 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.

SECTION 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 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.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Permissible Exposure Limits: N/A Threshold Limit
Value: N/A Special Equipment: None Respiratory
Protection: Dust Respirator Protective Gloves: Rubber
gloves Eye Protection: Safety glasses or goggles
Body Protection: Protective work clothing. Wear
close-toed shoes and long sleeves/pants.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Color White Form: Solid in various forms 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:
200.41 g/mol

SECTION 10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage
conditions Reacts With: Oxidizing agents
Incompatible Conditions: None Hazardous
Decomposition Products: Metal oxide fume

SECTION 11. TOXICOLOGICAL INFORMATION

Potential Health Effects: Eyes: May cause irritation
Skin: May cause irritation Ingestion: May cause
irritation Inhalation: May cause irritation Chronic:
Inorganic silicon compound may be acute inhalation
irritants. Prolonged inhalation may cause pulmonary
fibrosis known as silicosis. Lanthanons can cause
delayed blood clotting leading to hemorrhages.
Exposure may also lead to sensitivity to heat, itching,
increased awareness of odor and taste, and liver
damage. Signs & Symptoms: N/A Aggravated Medical
Conditions: N/A Median Lethal Dose: N/A Carcinogen:
N/A

SECTION 12. ECOLOGICAL INFORMATION

Aquatic Toxicity: Low Persistent Bioaccumulation
Toxicity: No Very Persistent, Very Bioaccumulative:
No Notes: N/A

SECTION 13. DISPOSAL CONSIDERATIONS

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

SECTION 14. TRANSPORT INFORMATION

Hazardous: Not hazardous for transportation. Hazard
Class: N/A Packing Group: N/A UN Number: N/A
Proper Shipping Name: N/A

SECTION 15. REGULATORY INFORMATION

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

16. OTHER INFORMATION

Safety Data Sheet according to Regulation (EC) No.
1907/2006 (REACH). The above information is
believed to be correct but does not purport to be all
inclusive and shall be used only as a guide. The
information in this document is based on the present
state of our knowledge and is applicable to the
product with regard to appropriate safety precautions.
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