

| <u>Bariı</u> | um Silicide | | Pricing > |
|-----------------------------|---|-----------------------------|-----------|
| Barium Silicide | | Sputtering Target | Pricing > |
| Linear Formula | | BaSi ₂ | |
| Pubchem CID | | 92135802 | |
| MDL Number | | N/A | |
| EC No. | | 215-131-0 | |
| IUPAC Name | | barium(2+); silicon(1-) | |
| Beilstein/Reaxys No. | | N/A | |
| SMILES | | [Si-].[Si-].[Ba+2] | |
| Inchl Identifier | | InChI=1S/Ba.2Si/q+2;2*-1 | |
| Inchl Key | | SLZXMZVNEHADNR-UHFFFAOYSA-N | |
| Signal Word | Danger | | |
| Hazard Statements | H260-H302-H312-H315-H319-H332 | | |
| Hazard Codes | | | |
| Precautionary Statements | P223-P231+P232-P261-P280-P301+P312-P302+P352-P304+P340-P305+P351+P338-P332+P313-P402+P404 | | |
| Risk Codes | N/A | | |
| Safety Statements | N/A | | |
| RTECS Number | N/A | | |
| Transport Information | UN2813 4.3/PG I | | |
| GHS Pictograms | GHS02 Flame GHS07 Exclamation Point | | |
| Croate | Drintable DDE | | |

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SAFETY DATA SHEET

Date Accessed: 04/25/2024 Date Revised: 01/15/2022

SECTION 1. IDENTIFICATION

Product Identifiers: All applicable American Elements product codes for CAS #1304-40-1

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

Statement of Hazard: Dangerous when wet, Irritant, Reacts violently with water Acute Health Hazard: Irritant to eyes, skin, mucous membranes and respiratory system. May be harmful by ingestion, skin absorption and inhalation. Chronic Health Hazard: Not Available To the best of our knowledge, the toxicological properties of this chemical have not been thoroughly investigated. Use appropriate procedures and precautions to prevent or minimize exposure. HMIS Rating: H: 1 F: 1 P: 2 NFPA Rating: H: 1 F: 1 R: 2 GHS Classification in accordance with 29 CFR 1910 (OSHA HCS): Acute toxicity, dermal (Category 4), H312 Acute toxicity, inhalation (Category 4), H332 Acute toxicity, oral (Category 4), H302 Serious eye damage/eye irritation (Category 2A), H319 Skin corrosion/irritation (Category 2), H315 Substances and mixtures which, in contact with water, emit flammable gases (Category 1), H260 Pictogram:



Signal Word: Danger Hazard Statement(s): H260 In contact with water releases flammable gases which may ignite spontaneously. H302 Harmful if swallowed. H312 Harmful in contact with skin. H315 Causes skin irritation. H319 Causes serious eye irritation. H332 Harmful if inhaled. Precautionary Statement(s): P223 Keep away from any possible contact with water, because of violent reaction and possible flash fire. P231+P232 Handle under inert gas. Protect from moisture. P261 Avoid breathing dust/fume/gas/mist/vapors/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P301+P312 IF SWALLOWED: call a POISON CENTER or doctor/physician IF you feel unwell. P302+P352 IF ON SKIN: wash with plenty of soap and water. P304+P340 IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P332+P313 IF SKIN irritation occurs: Get medical advice/attention. P402+P404 Store in a dry place. Store in a closed container. Supplemental Statement(s): EUH014 Reacts violently with water

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name: Barium silicide Cas no.: 1304-40-1 EINECS Number: 234-547-3 Molecular Formula: BaSi₂

SECTION 4. FIRST AID MEASURES

Eye Contact: Flush eyes with large amounts of water for fifteen minutes. Separate eyelids with fingers. If irritation persists, seek medical attention. Skin Contact: Wash skin with soap and water. If irritation persists, seek medical attention. Ingestion: Do not induce vomiting. Seek medical attention. Inhalation: Move to a fresh air environment. Contact a physician

SECTION 5. FIREFIGHTING MEASURES

Flash Point (°C): Not Available Explosion Limits: Not Available Auto Ignition Temperature (°C): Not Available Extinguishing Media: Carbon dioxide, dry chemical powder or alcoholresistant foam. Do not use water spray. Protective Equipment: Wear self-contained respirator and fully protective impervious suit. Specific Hazards: May emit hazardous fumes under fire conditions. Reacts violently with water.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Protection:

Wear a self-contained breathing apparatus, rubber boots and gloves, and disposable coveralls. Dispose of coveralls after use. Remove from ignition sources if safe to do so. Follow emergency response plan and contact proper authorities if needed. Keep unprotected persons away.

Environmental Protection:

Keep spills out of sewers and bodies of water. Dike and contain the spill with inert material. Absorb on sand, vermiculite or diatomite. Transfer material to a container for disposal or recovery. Ventilate area and wash spill site after material pickup is complete.

SECTION 7. HANDLING AND STORAGE

Handling and Storage:

Avoid breathing dust, vapor, mist or gas. Avoid contact with skin and eyes. Avoid prolonged or repeated exposure. Use only in a chemical fume hood. Open and handle container with care. Keep ignition sources away. Store in a tightly closed container in a dry, wellventilated place. Store under inert gas. Store under nitrogen. Sensitivities: Air, Moisture Storage Temperature (°C): 15 to 30

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

Use product in a well ventilated area or under a fume hood. Use proper lab equipment while handling this product. Keep away from incompatible materials for possible risk of hazardous reaction. Eye Protection: Wear appropriate protective eyeglass or chemical safety goggles. Make sure that there is an eyewash station in your vicinity. Skin Protection: Wear impervious gloves and protective clothing. Respiratory Protection: Use a NIOSH approved respirator when exposure limits are exceeded or if irritation or other symptoms are experienced.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Powder Odor: Not Available Odor Threshold: Not Available Flash Point (°C): Not Available Auto Ignition Temperature (°C): Not Available Melting Point (°C): Not Available Boiling Point (°C): Not Available **Evaporation Rate: Not Available** pH Value: Not Available Density (g/cm³): Not Available Refractive Index (n²⁰D): Not Available Viscosity: Not Available Solubility in Water: Not Available Solubility in Other: Not Available Vapor Pressure (mmHg): Not Available Vapor Density (Air=1): Not Available

SECTION 10. STABILITY AND REACTIVITY

Stability: Stable under normal temperatures and pressures. Incompatibility: Strong oxidizing agents, water, alcohol, acids, bases Reactivity: Product may react with incompatible materials to release other hazardous substances. Conditions to Avoid: Heat, flame, sparks, other ignition sources. Hazardous Decomposition Products:

SECTION 11. TOXICOLOGICAL INFORMATION

RTECS Reference: Not Available Target Organs: Not Available Toxicity Data: Not Available Carcinogenicity: National Toxicology Program (NTP) listed: Not Available International Agency for Research on Cancer (IARC) listed: Not Available Potential Symptoms: Not Available

SECTION 12. ECOLOGICAL INFORMATION

Toxicity: Not Available

SECTION 13. DISPOSAL CONSIDERATIONS

Contact a licensed professional waste disposal service. Dispose in a manner consistent with federal, state and local environmental regulations.

SECTION 14. TRANSPORT INFORMATION

DOT Shipping Name: Water-Reactive Solid, N.O.S. DOT UN Number: UN2813 DOT Hazard Class: Class 4.3 DOT Packing Group: PGI IMDG Shipping Name: Water-Reactive Solid, N.O.S. IMDG UN Number: UN2813 IMDG Hazard Class: Class 4.3 IMDG Packing Group: PGI Marine Pollutant: No IATA Shipping Name: Water-Reactive Solid, N.O.S. IATA UN Number: UN2813 IATA Hazard Class: Class 4.3 IATA Hazard Class: Class 4.3 IATA Packing Group: PGI

SECTION 15. REGULATORY INFORMATION

United States Toxic Substance Control Act (TSCA) listed: Yes Superfund Amendments and Reauthorization Act (SARA 302) listed: No Superfund Amendments and Reauthorization Act (SARA 311/312) listed: No Superfund Amendments and Reauthorization Act (SARA 313) listed: No European Union European Inventory of Existing Chemical Substances (EINECS): 234-547-3 Canada Canadian Domestic Substances List (DSL) listed: No Canadian Non-Domestic Substances List (NDSL) listed: Yes

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. It does not represent any guarantee of the properties of the product. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. COPYRIGHT 1997-2022 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.