

Barium Strontium Titanate (BST) Nanoparticles / Nanopowder	Pricing >
Barium Strontium Titanate Sputtering Target	Pricing >
BST (Barium Strontium Titanate)	Pricing >

Linear Formula	BaO₄SrTi
Pubchem CID	166703
MDL Number	N/A
EC No.	235-659-5
IUPAC Name	strontium; barium(2+); oxygen(2-); titanium(4+)
Beilstein/Reaxys No.	N/A
SMILES	[Ba+2].[Sr+2].[O-][Ti]([O-])([O-])[O-]
Inchl Identifier	InChI=1S/Ba.4O.Sr.Ti/q+2;4*-1;+2;
Inchl Key	PAQYLWUHUWDVQG-UHFFFAOYSA-N

Signal Word	N/A
Hazard Statements	N/A
Hazard Codes	N/A
Risk Codes	N/A
Safety Statements	N/A
Transport Information	N/A

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SAFETY DATA SHEET

Date Accessed: 09/21/2024 **Date Revised:** 01/15/2022

SECTION 1. IDENTIFICATION

Product Identifiers: All applicable American Elements product codes for CAS #12430-73-8

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

Statements of Hazard: Irritant

Acute Health Hazard: Irritant to eyes, skin, mucous

membranes and

respiratory system. May be harmful by ingestion,

inhalation or skin absorption.

Chronic Health Hazard: Not Available

HMIS Rating: H:0 F:0 P:0 NFPA Rating: H:0 F:0 R:0

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.

Pictogram



Signal Word: Warning

Hazard Statement(s): H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

Precautionary Statement(s): 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

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name: Barium strontium titanate

Synonyms: BST

CAS Number: 12430-73-8 MDL Number: MFCD05865190 EINECS Number: 235-659-5

Beilstein Registry Number: Not Available Molecular Formula: (BaTiO3)(SrTiO3)

Molecular Weight: 416.68

Content: 99+% Notes: Not Available

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

if breathing becomes difficult.

SECTION 5. FIREFIGHTING MEASURES

Flash Point: Not Available

Explosion Limits: Lower: Not Available

Upper: Not Available Autoignition: Not Available

Extinguishing Media: Carbon dioxide, dry chemical

powder, alcoholresistant foam or water spray.

Protective Equipment: Wear self-contained respirator

and fully protective impervious suit.

Specific Hazards: May emit hazardous fumes under

fire conditions.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Protection: Wear a self-contained breathing apparatus, rubber

boots and gloves, and disposable coveralls. Dispose

coveralls after use.

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: 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.

Storage: Store in a tightly closed container in a dry, wellventilated

place.

Sensitivities: Not Available Storage Temperature: 15-30 °C

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes: Wear appropriate protective eyeglass or chemical

safety goggles. Make sure that there is an eyewash facility in your vicinity.

Skin: Wear impervious gloves and protective clothing. Respiratory: Use a NIOSH approved respirator when exposure

limits are exceeded or if irritation or other symptoms are experienced.

Exposure Limits: Country Source Type Value USA ACGIH TWA Not Available USA OSHA STEL Not Available USA OSHA PEL Not Available

PROPERTIES

Appearance: Powder or solid

Odor: Not Available

Melting Point: Not Available Boiling Point: Not Available pH Value: Not Available Density: 4.91 g/cm3 Refractive Index, n20 D: Not Available

Viscosity: Not Available

Solubility in Water: Not Available Vapor Pressure: Not Available Vapor Density(Air=1): Not Available

SECTION 10. STABILITY AND REACTIVITY

Stability: Stable under normal temperatures and

pressures.

Incompatibility: Strong oxidizing agents.

Conditions to Avoid: Heat, Flame, Sparks, other

ignition sources

Hazardous Decomposition Products: Barium oxides,

Strontium oxides, Titanium oxides

SECTION 11. TOXICOLOGICAL INFORMATION

RTECS Reference: Not Available Target Organs: Not Available Toxicity Data: Not Available

Skin corrosion/irritation: Not Available

Serious eye damage/irritation: Not Available

Carcinogenicity: Not Available

SECTION 12. ECOLOGICAL INFORMATION

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: Not Regulated IATA: Not Regulated IMDG: Not Regulated

SECTION 15. REGULATORY INFORMATION

United States:

Toxic Substance Control Act (TSCA): Listed Superfund Amendments and Reauthorization Act

(SARA 302): Not listed

Superfund Amendments and Reauthorization Act

(SARA 311/312): Not listed

Superfund Amendments and Reauthorization Act

(SARA 313): Not listed European Union:

European Inventory of Existing Chemical Substances

(EINECS): No. 235-659-5

Hazard Codes: Xi

Risk Statements: 36/37/38 Safety Statements: 26

Canada

Canadian Domestic Substances List (DSL): Not listed Canadian Non-Domestic Substances List (NDSL):

Listed

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.

Reseach

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