SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product Identifier: (3N) 99.9% BST (Barium Strontium Titanate)
Product Code: BASR-TAT-03
CAS Number: 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: +1 800-424-9300

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 
advice/ attention.

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 of 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, well ventilated place.
Sensitivities: Not Available
Storage Temperature: 15-30 ºC

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

SECTION 9. PHYSICAL AND CHEMICAL 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: Not Available
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
欧洲联盟:
欧洲现有化学物质列表 (EINECS): No. 235-659-5
危险代码: Xi
风险陈述: 36/37/38
安全声明: 26
加拿大
加拿大国内物质列表 (DSL): 不列
加拿大非国内物质列表 (NDSL): 列出

16. OTHER INFORMATION

安全数据表根据 Regulation (EC) No. 1907/2006 (REACH)。上述信息被相信是正确的，但不保证所有信息的完整性和准确性，并应仅作为参考。本信息基于我们现有的知识，并且适用于该产品的使用指南。它不能代表任何保证该产品的性质。美国元素将不对任何由处理或与上述产品接触而导致的损害负责。请参阅发票或货运单的反面，了解额外的条款和销售条件。COPYRIGHT 1997-2019 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.