



MATERIAL SAFETY DATA SHEET

Manufacturer: Strem Chemicals, Inc
7 Mulliken Way
Newburyport, MA 01950-4098 U.S.A.
www.strem.com

Strem Customer Service (978) 499-1600
CHEMTREC (Emergency Only) (800) 424-9300
Poison Center (800) 562-8236

Section 1: Product Identification

Chemical Name: Barium iodide, anhydrous, min.97%
Product Number: 93-5619
CAS Registry Number: 13718-50-8
Formula: BaI₂
EINECS Number: 237-276-9
Chemical Family: metal halide
Synonym: Barium diiodide

Section 2: Composition and Information on Ingredients

Ingredient	CAS Number	Percent	ACGIH (TWA)	OSHA (PEL)
Title Compound	13718-50-8	100%	0.5mg/m ³ (as Ba)	0.5mg/m ³ (as Ba)

Section 3: Hazards Identification

Emergency Overview: Harmful by inhalation and if swallowed. Prolonged exposure to iodide salts may produce a mild toxic syndrome known as iodism.

Primary Routes of Exposure: Contact with skin and eyes. Inhalation of dust.

Eye Contact: Contact with eyes may cause irritation, redness, and pain.

Skin Contact: Causes irritation to skin. Symptoms include redness, itching, and pain, pimples, boils, hives and blisters.

Inhalation: Dust may cause difficulty in breathing, tightness of the muscles of the face and neck.

Ingestion: May cause vomiting, irregular heartbeat, pain, tremors, convulsions and cardiac arrest.

Acute Health Affects: Harmful by inhalation and if swallowed. May cause difficulty in breathing, vomiting, tremors, weakness and death from cardiac and respiratory failure.

Chronic Health Affects: Chronic ingestion of iodides may produce iodism. Symptoms include skin rash, running nose, headache and irritation of mucous membranes.

NTP: No

IARC: No

OSHA: No

SECTION 4: First Aid Measures

Eye Exposure: Immediately flush the eyes with copious amounts of water for at least 10-15 minutes. A victim may need assistance in keeping their eye lids open. Get immediate medical attention.

Skin Exposure: Wash the affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.

Inhalation: Remove the victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases seek immediate medical assistance.

Ingestion: Seek medical attention immediately. Keep the victim calm. Give the victim a sodium sulfate solution as antidote as directed by medical personnel.



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SECTION 5: Fire Fighting Measures

Flash Point: not applicable
Autoignition Temperature: none
Explosion Limits: none
Extinguishing Medium: none required
Special Fire Fighting Procedures: If involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing.
Hazardous Combustion and Decomposition Products: none
Unusual Fire or Explosion Hazards: No unusual fire or explosion hazards.

SECTION 6: Accidental Release Measures

Spill and Leak Procedures: To avoid raising dust, small spills may be mixed with diatomaceous earth, sand, vermiculite or other suitable inert material and swept up.

SECTION 7: Handling and Storage

Handling and Storage: Store solid in a tightly sealed container.

SECTION 8: Exposure Controls and Personal Protection

Eye Protection: Always wear approved safety glasses when handling a chemical substance in the laboratory.
Skin Protection: Wear appropriate chemical resistant gloves and protective clothing.
Ventilation: If possible, handle the material in an efficient fume hood.
Respirator: If in form of fine dust and ventilation is not available a respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29 CFR 1910.134.
Ventilation: If possible, handle the material in an efficient fume hood.
Additional Protection: No additional protection required.

SECTION 9: Physical and Chemical Properties

Color and Form: off-white powdr.
Molecular Weight: 391.15
Melting Point: no data
Boiling Point: no data
Vapor Pressure: no data
Specific Gravity: no data
Odor: none
Solubility in Water: 170g/100cc (0°C)

SECTION 10: Stability and Reactivity

Stability: hygroscopic
Hazardous Polymerization: no hazardous polymerization
Conditions to Avoid: contact with moisture
Incompatibility: chlorine, bromine and oxidizing agents
Decomposition Products: none



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SECTION 11: Toxicological Information

RTECS Data: No specific information available on this product.
Carcinogenic Effects: no data
Mutagenic Effects: no data
Tetratogenic Effects: no data

SECTION 12: Ecological Information

Ecological Information: No information available

SECTION 13: Disposal Considerations

Disposal: Dispose of according to local, state and federal regulations.

SECTION 14: Transportation

Shipping Name (CFR): Barium compounds, N.O.S.
Hazard Class (CFR): 6.1
Additional Hazard Class (CFR): NA
Packaging Group (CFR): III
UN ID Number (CFR): UN# 1564
Shipping Name (IATA): Barium compound, N.O.S.
Hazard Class (IATA): 6.1
Additional Hazard Class (IATA): NA
Packaging Group (IATA): III
UN ID Number (IATA): UN# 1564

SECTION 15: Regulatory Information

TSCA: Listed in the TSCA inventory.
SARA (Title 313): Title compound: See category N040 for reporting.
Second Ingredient: none
Third Ingredient: none

SECTION 16: Other Information

Disclaimer: The information herein is believed to be accurate and reliable as of the date compiled. However, Strem Chemicals, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information contained in this document or any use of the product based on this information.
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Strem Chemicals, Inc.
7 Mulliken Way
Newburyport, MA 01950-4098 USA
Tel: (978) 499 1600
Fax: (978) 465 3104
Toll free (in USA & Canada)
Tel: (800) 647 8736
Fax: (800) 517 8736
info@strem.com

Strem Chemicals, Inc.
15, rue de l'Atome, Z.I.
67800 BISCHHEIM (France)
Tel: (33) 03 88 62 52 60
Fax: (33) 03 88 62 26 81
info.europe@strem.com

Strem Chemicals, Inc.
Postfach 1215
77672 KEHL (Germany)
Telefon: 0 78 51/ 7 58 79
info.europe@strem.com

Strem Chemicals UK, Ltd.
41 Hills Road
Cambridge, England CB2 1NT
Tel: 0845 643 7263
Fax: 0845 643 7362
enquiries@strem.co.uk