

## Barium Chloride Safety Data Sheet (SDS)

### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### Barium Chloride

Signal Word  
**DANGER**

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261  
Chemtrec Emergency Phone Number: (800) 424-9455

Pictograms

### SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Acute toxicity, oral (Category 3). Toxic if swallowed (H301). Do not eat, drink or smoke when using this product (P270).



Hazard class: Acute toxicity, inhalation (Category 4). Harmful if inhaled (H332). Avoid breathing dust or fumes (P261).

### SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Barium chloride dihydrate	10326-27-9	BaCl <sub>2</sub> •2H <sub>2</sub> O	244.28	

### SECTION 4 — FIRST AID MEASURES

Immediately call a POISON CENTER or physician.

**If inhaled:** Remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P340).

**If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.

**If on skin:** Wash with plenty of water.

**If swallowed:** Rinse mouth. Immediately call a POISON CENTER or physician (P301+P310+P330).

### SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable solid.

NFPA Code

When heated to decomposition, may emit toxic fumes.

None established

In case of fire: Use a tri-class dry chemical fire extinguisher.

### SECTION 6 — ACCIDENTAL RELEASE MEASURES

Ventilate area. Wipe up the spill, place in a sealed bag or container, and dispose. Wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

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## SECTION 7 — HANDLING AND STORAGE

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Flinn Suggested Chemical Storage Pattern: Inorganic #2. Store with acetates, halides, sulfates, sulfites, thiosulfates and phosphates. Store in a Flinn Chem-Saf™ bag.

Store in a cool, dry place. Keep container tightly closed (P233). Use only in a hood or well-ventilated area (P271).

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## SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

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Wear protective gloves, protective clothing, and eye protection. Wash hands thoroughly after handling (P264). Use only in a hood or well-ventilated area (P271).

Exposure guidelines: (as barium) PEL/TLV 0.5 mg/m<sup>3</sup> (OSHA/ACGIH)

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## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

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White powder. Odorless.

Boiling point: 1560 °C

Soluble: Water (39.3 grams/100 mL)

Melting point: 962 °C

Specific gravity: 3.1

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## SECTION 10 — STABILITY AND REACTIVITY

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Avoid contact with strong oxidizers.

Shelf life: Indefinite, if stored properly.

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## SECTION 11 — TOXICOLOGICAL INFORMATION

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Route of entry: Inhalation, ingestion

ORL-RAT LD<sub>50</sub>: 118 mg/kg

Acute effects: Highly toxic, irritant, stomach pains, vomiting, and diarrhea. Chronic effects: N.A.

IHL-RAT LC<sub>50</sub>: N.A.

SKN-RBT LD<sub>50</sub>: N.A.

Target organs: heart, nerves, kidneys, GI system, bone marrow, spleen, and liver.

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## SECTION 12 — ECOLOGICAL INFORMATION

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Data not yet available.

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## SECTION 13 — DISPOSAL CONSIDERATIONS

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Please review all federal, state and local regulations that may apply before proceeding.

Flinn Suggested Disposal Method #27h is one option.

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## SECTION 14 — TRANSPORT INFORMATION

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Shipping name: Barium compounds, N.O.S. Hazard class: 6.1, Keep away from food. UN number: UN1564.

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## SECTION 15 — REGULATORY INFORMATION

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TSCA-listed, EINECS-listed (233-788-1), RCRA D005.

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## SECTION 16 — OTHER INFORMATION

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STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S).

N.A. = Not available, not all health aspects of this substance have been fully investigated.

N/A = Not applicable

**Consult your copy of the Flinn Science Catalog/Reference Manual for additional information about laboratory chemicals.**

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