# FLINN SCIENTIFIC, INC. Safety Data Sheet (SDS)

**SDS #:** 95.00

Revision Date: March 24, 2014

## SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

## **Barium Hydroxide**

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

Signal Word

DANGER

Pictograms

## **SECTION 2 — HAZARDS IDENTIFICATION**

Hazard class: Acute toxicity, oral and inhalation (Category 4). Harmful if swallowed or inhaled (H302+H332). Do not eat, drink or smoke when using this product (P270).

Hazard class: Skin corrosion or irritation (Category 1). Causes severe skin burns and eye damage (H314). Do not breathe dust or fumes (P260).



SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Barium hydroxide	12230-71-6	$Ba(OH)_2 \cdot 8H_2O$	315.50	

## **SECTION 4 — FIRST AID MEASURES**

Call a POISON CENTER or physician if you feel unwell (P312).

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 (P305+P351+P338).

If on skin (or hair): Immediately remove all contaminated clothing. Rinse skin with water (P303+P361+P353).

If swallowed: Rinse mouth. Do NOT induce vomiting (P301+P330+P331).

## **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**

Do not allow solid to become airborne. Ventilate area. Sweep 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**

Flinn Suggested Chemical Storage Pattern: Inorganic #4. Store with hydroxides, oxides, silicates and carbonates.

Store in a cool, dry place. Keep container tightly closed. Store in Flinn Chem-Saf<sup>TM</sup> bag.

Use only in a hood or well-ventilated area (P271).

## SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection (P280). 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)

## **SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

White, crystalline powder. Odorless.

Soluble: Water and alcohol

Boiling point: 780 °C

Melting point: 78 °C

Specific gravity: 2.2

## **SECTION 10 — STABILITY AND REACTIVITY**

Avoid contact with acids.

Shelf life: Poor, absorbs carbon dioxide from the air. See Section 7 for further information.

### **SECTION 11 — TOXICOLOGICAL INFORMATION**

Acute effects: Highly toxic, corrosive. ORL-RAT LD<sub>50</sub>: 550 mg/kg

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

Target organs: Heart, kidneys, GI system, bone marrow, spleen, and SKN-RBT LD<sub>50</sub>: N.A.

liver.

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

## **SECTION 12 — ECOLOGICAL INFORMATION**

Data not yet available.

### **SECTION 13 — DISPOSAL CONSIDERATIONS**

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

Flinn Suggested Disposal Method #27h is one option.

## **SECTION 14 — TRANSPORT INFORMATION**

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

N/A = Not applicable

#### **SECTION 15 — REGULATORY INFORMATION**

TSCA-listed, EINECS-listed (241-234-5), RCRA D002, D005.

### **SECTION 16 — OTHER INFORMATION**

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

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