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Barium Sulfate Safety Data Sheet (SDS)

SDS #: 98
Revision Date: September 26, 2016

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SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Barium Sulfate

Signal Word
N/A

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261
Chemtrec Emergency Phone Number: (800) 424-9462

Pictograms

SECTION 2 — HAZARDS IDENTIFICATION	
This chemical is considered nonhazardous according to GHS classifications for the Hazard Communication Standard. Treat all laboratory chemicals with caution.	
Although this material is considered to be nonhazardous, unpredictable reactions among chemicals are always possible. Prudent laboratory practices should be observed.	

SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Barium sulfate	7727-43-7	BaSO ₄	233.43	
Synonyms: Barite				

SECTION 4 — FIRST AID MEASURES

Call a POISON CENTER or physician if you feel unwell.
If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
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. Call a POISON CENTER or physician if you feel unwell.

SECTION 5 — FIRE FIGHTING MEASURES	
Nonflammable, noncombustible 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	
Sweep up the spill, place in a sealed bag or container, and dispose. Ventilate area and wash spill site after material pickup is complete. See Sections 8 and 13 for further information.	
SECTION 7 — HANDLING AND STORAGE	
Flinn Suggested Chemical Storage Pattern: Inorganic #2. Store with acetates, halides, sulfates, sulfites, thiosulfates and phosphates. Store in a cool, dry place.	
SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION	
Wear protective gloves, protective clothing, and eye protection. Wash hands thoroughly after handling.	
Exposure guidelines: PEL 15 mg/m ³ (OSHA); TLV 5 mg/m ³ (inhalable fraction) (ACGIH)	
SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES	
White, heavy powder. Odorless.	
Soluble: Insoluble in water.	
Melting point: 1580 °C (decomposes @ 1600 °C)	
Specific gravity: 4.3	
SECTION 10 — STABILITY AND REACTIVITY	
Avoid contact with aluminum and phosphorus.	
Shelf life: Indefinite, if stored properly.	
SECTION 11 — TOXICOLOGICAL INFORMATION	
Acute effects: N.A.	
Chronic effects: Prolonged inhalation of dust may cause baritosis, a benign pneumoconiosis. If ingested, the presence of soluble barium salts as impurities may cause toxic reactions due to bioaccumulation.	
Target organs: N.A.	
ORL-RAT LD ₅₀ : N.A.	
IHL-RAT LC ₅₀ : N.A.	
SKN-RBT LD ₅₀ : N.A.	
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 #26a is one option.	
SECTION 14 — TRANSPORT INFORMATION	
Shipping name: Not regulated. Hazard class: N/A. UN number: N/A	
SECTION 15 — REGULATORY INFORMATION	
TSCA-listed, EINECS-listed (231-784-4), RCRA D005.	
SECTION 16 — OTHER INFORMATION	

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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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