FLINN SCIENTIFIC, INC.
Material Safety Data Sheet (MSDS)

MSDS #: 97.00

Revision Date: April 28, 2011

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Barium Peroxide

Flinn Scientific, Inc. P.O. Box 219 Batavia, IL 60510 (800) 452-1261
CHEMTREC Emergency Phone Number: (800) 424-9300

SECTION 2 — COMPOSITION, INFORMATION ON INGREDIENTS

Barium peroxide
Synonym: barium binoxide
CAS#: 1304-29-6

SECTION 3 — HAZARDS IDENTIFICATION

Beige powder. Odorless.
Skin irritant. Corrosive; causes burns. Fire and explosion risk when in contact with organic material.
Barium hazard: All soluble barium compounds are poisonous if swallowed and cause nausea, vomiting, stomach pains, and diarrhea.

FLINN AT-A-GLANCE
Health-1
Flammability-0
Reactivity-3
Exposure-3
Storage-2
0 is low hazard, 3 is high hazard

SECTION 4 — FIRST AID MEASURES

Call a physician and seek medical attention for further treatment, observation, and support after first aid.
Inhalation: Remove to fresh air at once. If breathing has stopped, give artificial respiration immediately.
Eye or External: Immediately flush with fresh water for at least 15 minutes.
Internal: Induce vomiting. Call a physician or poison control at once.

SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable solid.
Contact with moisture may produce heat; very strong oxidizer; avoid contact with organic materials.
Fire Fighting Instructions: Use a triclass, dry chemical fire extinguisher. Firefighters should wear PPE and SCBA with full facepiece operated in positive pressure mode.

NFPA CODE
None established

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Restrict unprotected personnel from the area. 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 #6. Store with bromates and chlorates.
Store in a cool, dry place. Store in a Flinn Chem-Saf Bag or in a Flinn Saf-Stor Can.
Use and dispense in a hood.

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Avoid contact with eyes, skin, and clothing. Wear chemical splash goggles, chemical-resistant gloves, and chemical-resistant apron. Use ventilation to keep airborne concentrations below exposure limits. Always wear a NIOSH-approved respirator with proper cartridges or a positive pressure, air-supplied respirator when handling this material in emergency situations (spill or fire).
Exposure guidelines: TWA 0.5 mg/m^3 (as Ba) (OSHA)

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SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Beige, odorless powder.
Solubility: Slightly soluble in water; soluble in acids.
Formula: BaO_2
Formula weight: 169.34

Boiling point: Loses O_2 at 800 ^oC
Melting point: 450 ^oC
Specific gravity: 4.96

SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with heat, water, acid, combustible materials, and reducing agents.
Shelf life: Poor, unless kept cool and dry.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Corrosive.
Chronic effects: N.A.
Target organs: Heart, nerves, kidneys, GI system, bone marrow, spleen, and liver.

ORL-RAT LD_{50}: N.A.
IHL-RAT LC_{50}: N.A.
SKN-RBT LD_{50}: N.A.

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 Peroxide
Hazard class: 5.1, Oxidizer, Poison
UN number: UN1449
N/A = Not applicable

SECTION 15 — REGULATORY INFORMATION

TSCA-listed; EINECS-listed (215-128-4); RCRA D001, 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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