**SDS #:** 97
**Revision Date:** March 24, 2014

7-19-2021: File reviewed, more current MSDS/SDS not available. JMC

# Safety Data Sheet (SDS)

## SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Signal Word**
**DANGER**

Barium Peroxide

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261
Chemtrec Emergency Phone Number: (800) 424-9461

Pictograms

## SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Oxidizing solids (Category 2). May intensify fire; oxidizer (H272). Keep away from heat, sparks, open flames, and hot surfaces. No smoking (P210).

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). Avoid breathing dust or fumes (P261).

Hazard class: Skin corrosion or irritation (Category 2). Causes skin irritation (H315).

## SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

| Component Name | CAS Number | Formula | Formula Weight | Concentration |
|---|---|---|---|---|
| Barium peroxide<br><br>Synonyms: Barium binoxide | 1304-29-6 | $BaO_2$ | 169.34 | |

## 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.
**If on skin:** Wash with plenty of water (P302+P352). **If skin irritation occurs:** Get medical advice or attention (P332+P313).
**If swallowed:** Rinse mouth.**Call a POISON CENTER or physician if you feel unwell (P302+P301+P312).**

## SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable solid.
Contact with moisture may produce heat; very strong oxidizer; avoid contact with organic materials. When heated to decomposition, may emit toxic fumes.
In case of fire: Use a tri-class dry chemical fire extinguisher. Take any precautions to avoid

**NFPA Code**
None established

mixing with combustibles (P221+P370+P378).

## 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 #6. Store with chlorates, bromates, iodates, chlorites, perchloric acid, and peroxides. Store in a cool, dry place. Store in a Flinn Chem-Saf™ bag or in a Flinn Saf-Stor™ can. Use only in a hood or well-ventilated area (P271). Take any precautions to avoid mixing with combustibles (P221).
Keep and store away from clothing and combustible materials (P220).

## 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 $mg/m^3$ (OSHA/ACGIH)

## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Beige powder. Odorless.
Soluble: Acids. Slightly in water.

Boiling point: Loses $O_2$ at 800 °C
Melting point: 450 °C
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. See Section 7 for further information.

## 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.

## 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.

## SECTION 15 — REGULATORY INFORMATION

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