

FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

Material Safety Data Sheet (MSDS)

MSDS #: 109.00

Revision Date: November 25, 2002

Section 1 — Chemical Product and Company Identification

Benzoyl 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

Benzoyl Peroxide

Synonym: dibenzoyl peroxide, benzoic acid peroxide

CAS#: 94-36-0

Section 3 — Hazards Identification

White crystalline powder. Faint almond like odor.

Slightly toxic by inhalation; avoid inhaling dust.

Powerful oxidizer, dangerous explosion hazard: may explode spontaneously upon heating or friction.

Irritant to skin, eyes and mucous membranes.

FLINN AT-A-GLANCE

Health-1

Flammability-3

Reactivity-3

Exposure-2

Storage-2

0 is low hazard, 3 is high hazard

Section 4 — First Aid Measures

Call a physician, 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: Immediately flush with fresh water for 15 minutes.

External: Wash continuously with fresh water for 15 minutes.

Internal: Give large quantities of water. Call a physician or poison control at once.

Section 5 — Fire Fighting Measures

Combustible solid.

Easily ignited and burns rapidly. Powerful oxidizer, dangerous explosion hazard: may explode spontaneously upon heating or friction. Autoignition Temperature: 176 F.

Fire Fighting Instructions: Use 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 area. Remove all ignition sources and water. Sweep up, place in 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: Organic #6. Store with peroxides, hydroperoxides and azides.

Store in a cool dry place. Store in a Flinn Chem-Saf 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 5 mg/m³ (OSHA, ACGIH, NIOSH)

Section 9 — Physical and Chemical Properties

White crystalline powder. Faint almond-like odor.
Solubility: Slightly soluble in water; soluble in many organic solvents.
Formula: (C₆H₅CO)₂O₂
Formula Weight: 242.24

Specific Gravity: 1.33
Melting Point: 103-105 C

Section 10 — Stability and Reactivity

Material must be moist. May explode spontaneously when dry. Never use unless 33% water is present. Avoid strong acids, alkalis and oxidizers. Use no sparking tools for handling.
Shelf life: Poor; plan not to store an item like this.

Section 11 — Toxicological Information

Acute effects: Irritant, sensitizer
Chronic effects: Possible tumor promoter
Target organs: N.A.

ORL-RAT LD50: 7710 mg/kg
IHL-RAT LC50: N.A.
SKN-RBT LD50: 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 consult with state and local regulations.
Flinn Suggested Disposal Method #22b is one option.

Section 14 — Transport Information

Shipping Name: Organic Peroxide Type B, Solid (Dibenzoyl Peroxide)
Hazard Class: 5.2
UN Number: UN3102

N/A = Not applicable

Section 15 — Regulatory Information

TSCA-listed, EINECS-listed (202-327-6), RCRA code D001, D003.

Section 16 — Other Information

Consult your copy of the Flinn Scientific Catalog/Reference Manual for additional information about laboratory chemicals. This Material Safety Data Sheet (MSDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. Flinn Scientific Inc. assumes no legal responsibility for use or reliance upon this data.

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