

# FLINN SCIENTIFIC, INC.

## Safety Data Sheet (SDS)

SDS #: 109.00

Revision Date: March 24, 2014

### 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

Signal Word **DANGER**

Pictograms



### SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Self-reactive substances and mixtures; and Organic peroxides (Type B). Heating may cause a fire or explosion (H241). Keep away from heat, sparks, open flames, and hot surfaces. No smoking (P210).

Hazard class: Sensitization, skin and respiratory tract (Category 1). May cause an allergic skin reaction or asthma symptoms or breathing difficulties if inhaled (H317+H334). Avoid breathing dust or fumes (P261).

Hazard class: Serious eye damage or irritation (Category 2A). Causes serious eye irritation (H319).

### SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Benzoyl peroxide	94-36-0	(C <sub>6</sub> H <sub>5</sub> CO) <sub>2</sub> O <sub>2</sub>	242.23	
Synonyms: Dibenzoyl peroxide; Benzoic acid peroxide				

### 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 (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 eye irritation persists:** Get medical advice or attention (P337+P313).

**If on skin:** Wash with plenty of water (P302+P352). **If skin irritation or rash occurs:** Get medical advice or attention (P333+P313). **If swallowed:** Rinse mouth. Call a POISON CENTER or physician if you feel unwell.

### SECTION 5 — FIRE FIGHTING MEASURES

Combustible solid.

Easily ignited and burns rapidly. Powerful oxidizer and dangerous explosion hazard: may explode spontaneously upon heating or friction. When heated to decomposition, may emit toxic fumes.

**In case of fire:** Use a tri-class dry chemical fire extinguisher. Evacuate area (P370+P380+P375).

**NFPA CODE**  
None  
established

### SECTION 6 — ACCIDENTAL RELEASE MEASURES

Remove all ignition sources and water. 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: Organic #6. Store with peroxides, hydroperoxides, and azides.

Store in a Flinn Chem-Saf™ can. Keep only in original container (P234). Keep cool (P235).

Avoid storing this item (see Section 10).

Keep and store away from clothing and combustible materials (P220). 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. Use only in a hood or a well-ventilated area (P271). In case of inadequate ventilation, wear respiratory protection (P285). Contaminated work clothing should not be allowed out of the workplace (P272).

Exposure guidelines: PEL/TLV 5 mg/m<sup>3</sup> (OSHA/ACGIH)

---

**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

---

White to gray crystalline powder. Faint almond-like odor.

Soluble: Many organic solvents. Slightly in water.

Melting point: 103-105 °C

Refractive index: 1.543

Specific gravity: 1.33

---

**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 LD<sub>50</sub>: 7710 mg/kg

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

SKN-RBT LD<sub>50</sub>: 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 #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**

---

This Safety Data Sheet (SDS) 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. The data should not be confused with local, state, federal or insurance mandates, regulations, or requirements and CONSTITUTE NO WARRANTY. Any use of this data and information must be determined by the science instructor to be in accordance with applicable local, state or federal laws and regulations. The conditions or methods of handling, storage, use and disposal of the product(s) described are beyond the control of Flinn Scientific, Inc. and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S).

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

Revision Date: March 24, 2014

---