FLINN SCIENTIFIC, INC.
Safety Data Sheet (SDS)

SDS #: 109.00
Revision Date: December 13, 2013

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	$(C_6H_5CO)_2O_2$	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. 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.

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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).

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection (P280). Wash 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^3 (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, alkalies, 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_{50}: 7710 mg/kg
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 #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

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

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