

**SDS** #: 109

Revision Date: March 24, 2014

Safety Data Sheet (SDS) 3/17/2025: File reviewed, more current MSDS/SDS not available. CAS

### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Signal Word DANGER

# Benzoyl Peroxide

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261

Chemtrec Emergency Phone Number: (800) 424-9475

**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 so. Continue rinsing (P305+P351+P338). **If eye irritation persists eyes:** 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. NFPA Code

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.

None established

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

# 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<sup>TM</sup> 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 Melting point: 103-105 °C

odor. Refractive index: 1.543

Soluble: Many organic solvents. Slightly in water. 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. ORL-RAT LD<sub>50</sub>: 7710 mg/kg

Chronic effects: Possible tumor promoter. IHL-RAT LC<sub>50</sub>: N.A. Target organs: N.A. SKN-RBT LD<sub>50</sub>: 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 #22b is one option.

# **SECTION 14 — TRANSPORT INFORMATION**

Shipping name: Organic Peroxide Type B, Solid (Dibenzoyl Peroxide). Hazard class: 5.2. UN number: UN3102.

# **SECTION 15 — REGULATORY INFORMATION**

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

#### 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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