

# FLINN SCIENTIFIC, INC.

## Material Safety Data Sheet (MSDS)

MSDS #: 751.00

Revision Date: September 28, 2011

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### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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#### Sodium Peroxide

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

CHEMTREC Emergency Phone Number: (800) 424-9300

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### SECTION 2 — COMPOSITION, INFORMATION ON INGREDIENTS

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Sodium Peroxide

Synonym: disodium dioxide

CAS#: 1313-60-6

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### SECTION 3 — HAZARDS IDENTIFICATION

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Pale yellow granular powder. Odorless.

Moderately toxic by ingestion and inhalation. Corrosive to body tissues. Avoid all body tissue contact.

Serious fire/explosion risk.

#### FLINN AT-A-GLANCE

Health-2

Flammability-0

Reactivity-3

Exposure-2

Storage-2

0 is low hazard, 3 is high hazard

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### SECTION 4 — FIRST AID MEASURES

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Call a physician and 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 or External: Immediately flush with fresh water for at least 15 minutes.

Internal: Do NOT induce vomiting. Rinse mouth. Call a physician or poison control at once.

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### SECTION 5 — FIRE FIGHTING MEASURES

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Noncombustible solid.

Strong oxidizer when in contact with water, alcohols, acids, powdered metals and organic materials.

**Fire Fighting Instructions:** Use triclass, dry chemical fire extinguisher. Firefighters should wear PPE and SCBA with full facepiece operated in positive mode.

#### NFPA CODE

H-3

F-0

R-1

OX

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### SECTION 6 — ACCIDENTAL RELEASE MEASURES

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Restrict unprotected personnel from area. 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.

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### SECTION 7 — HANDLING AND STORAGE

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Flinn Suggested Chemical Storage Pattern: Inorganic #6. Store with bromates and chlorates.

Store in a cool, dry place. Store in a Flinn Chem-Saf bag and then inside a Flinn Saf-Stor can.

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### SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

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Avoid contact with eyes, skin, and clothing. Wear chemical splash goggles, chemical-resistant gloves, and chemical-resistant apron. Use exhaust ventilation to keep airborne concentrations low.

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**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

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Pale yellow granular powder. Odorless.  
Solubility: Cold water with evolution of much heat.  
Formula: Na<sub>2</sub>O<sub>2</sub>  
Formula weight: 77.979

Boiling point: 675 °C (decomposes)  
Melting point: 460 °C (decomposes)  
Specific gravity: 2.805

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**SECTION 10 — STABILITY AND REACTIVITY**

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Avoid contact with strong reducers, acids, organic materials, alcohols, finely powdered metals. Reacts violently with water.  
Shelf life: Reasonably good, if stored safely.

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**SECTION 11 — TOXICOLOGICAL INFORMATION**

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Acute effects: Toxic, corrosive  
Chronic effects: N.A.  
Target organs: N.A.

ORL-RAT LD<sub>50</sub>: N.A.  
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.

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**SECTION 12 — ECOLOGICAL INFORMATION**

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Data not yet available.

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**SECTION 13 — DISPOSAL CONSIDERATIONS**

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Please review all federal, state and local regulations that may apply, before proceeding.  
Flinn Suggested Disposal Method #22a is one option.

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**SECTION 14 — TRANSPORT INFORMATION**

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Shipping name: Sodium Peroxide  
Hazard class: 5.1, Oxidizer  
UN number: UN1504  
N/A = Not applicable

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**SECTION 15 — REGULATORY INFORMATION**

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TSCA-listed, EINECS-listed (215-209-4), RCRA code D001, D003.

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**SECTION 16 — OTHER INFORMATION**

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