

# FLINN SCIENTIFIC, INC.

## Material Safety Data Sheet (MSDS)

MSDS #: 398.50

Revision Date: March 23, 2011

### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### Hydrogen Peroxide Solution (2%-6%)

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

Hydrogen peroxide (7722-84-1) 2-6% and Water (7732-18-5) 94-98%.

CAS#: None established

### SECTION 3 — HAZARDS IDENTIFICATION

Clear, colorless aqueous solution. Odorless.

Irritant to skin, eyes, digestive tract, and respiratory tract. Avoid prolonged body contact.

Hydrogen peroxide will decompose rapidly when exposed to almost any substance.

#### FLINN AT-A-GLANCE

Health-1

Flammability-0

Reactivity-1

Exposure-1

Storage-0

0 is low hazard, 3 is high hazard

### SECTION 4 — FIRST AID MEASURES

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: Immediately flush with fresh water for at least 15 minutes.

External: Wash continuously with fresh water for at least 15 minutes.

Internal: Do NOT induce vomiting. Rinse mouth. Give large quantities of water for dilution.

### SECTION 5 — FIRE FIGHTING MEASURES

Noncombustible liquid, but an oxidizer.

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

#### NFPA CODE

Not  
established.

### SECTION 6 — ACCIDENTAL RELEASE MEASURES

Restrict unprotected personnel from the area and ventilate area. Contain the spill with sand or other inert absorbent material and deposit in a sealed bag or container. See Sections 8 and 13 for further information.

### SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Inorganic #6.

Store with bromates and chlorates. Store away from organics, combustibles, reducing agents, and strong bases.

Light sensitive. Store in a dark, vented container.

### 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: PEL 1 ppm (OSHA)

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**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

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Clear, colorless, odorless liquid.

Specific Gravity: 1.0

Solubility: Soluble in water and alcohol.

Formula: H<sub>2</sub>O<sub>2</sub>

Formula Weight: 34.02

2-6% by mass solution.

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**SECTION 10 — STABILITY AND REACTIVITY**

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Keep away from reducing agents, strong bases, organics, combustible material, and oxidizable materials. Avoid heating this substance.

Shelf Life: Fair to poor. Stored at room temperature, this substance decomposes at about 0.5% per year.

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**SECTION 11 — TOXICOLOGICAL INFORMATION**

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Acute effects: Irritant.

ORL-MAN LD<sub>50</sub>: 1429 mg/kg as hydrogen peroxide

Chronic effects: Dermatitis.

IHL-RAT LC<sub>50</sub>: 2000 mg/m<sup>3</sup> as hydrogen peroxide

Target organs: N.A.

SKN-RAT LD<sub>50</sub>: 3000 mg/kg as hydrogen peroxide

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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Carp LC<sub>50</sub>: 42 mg/L (48 hour as hydrogen peroxide)    Daphnia EC<sub>50</sub>: 2.4 mg/L (48 hour as hydrogen peroxide)

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**SECTION 13 — DISPOSAL CONSIDERATIONS**

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Please consult with state and local regulations.

On Suggested Disposal Method #26b is one option.

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**SECTION 14 — TRANSPORT INFORMATION**

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Shipping Name: N/A

Hazard Class: N/A

UN Number: N/A

N/A = Not applicable

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**SECTION 15 — REGULATORY INFORMATION**

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TSCA-listed, EINECS-listed (231-765-0), RCRA code D001, D002.

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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.**