

FLINN SCIENTIFIC, INC.

Material Safety Data Sheet (MSDS)

MSDS #: 398.50

Revision Date: May 29, 2009

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, odorless liquid.

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, 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. Give large quantities of water.

SECTION 5 — FIRE FIGHTING MEASURES

Noncombustible liquid, but an oxidizer.

Fire Fighting Instructions: Use 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 area and ventilate area. Contain spill with sand or other inert absorbent material; deposit in 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: TWA 1 ppm (OSHA)

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Clear, colorless, odorless liquid.

Specific Gravity: 1.0

Solubility: Soluble in water and alcohol.

Formula: H₂O₂

Formula Weight: 34.02

2-6% by mass solution.

SECTION 10 — STABILITY AND REACTIVITY

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.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Irritant

Chronic effects: Dermatitis

Target organs: N.A.

ORL-MAN LDLo: 1429 mg/kg as hydrogen peroxide

IHL-RAT LC50: 2000 mg/m³ as hydrogen peroxide

SKN-RAT LD50: 3000 mg/kg as hydrogen peroxide

N.A. = Not available, not all health aspects of this substance have been fully investigated.

SECTION 12 — ECOLOGICAL INFORMATION

Carp LC50: 42 mg/L (48 hour as hydrogen peroxide); Daphnia EC50: 2.4 mg/L (48 hour as hydrogen peroxide)

SECTION 13 — DISPOSAL CONSIDERATIONS

Please consult with state and local regulations.

Flinn Suggested Disposal Method #26b is one option.

SECTION 14 — TRANSPORT INFORMATION

Shipping Name: N/A

Hazard Class: N/A

UN Number: N/A

N/A = Not applicable

SECTION 15 — REGULATORY INFORMATION

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

SECTION 16 — OTHER INFORMATION

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