

FLINN SCIENTIFIC, INC.

Material Safety Data Sheet (MSDS)

MSDS #: 398.00

Revision Date: June 25, 1998

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Hydrogen Peroxide

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

CAS#: 7722-84-1

SECTION 3 — HAZARDS IDENTIFICATION

Clear colorless, odorless liquid.
Slightly toxic by ingestion or inhalation. Corrosive and severe irritant to skin, eyes and respiratory tract. Causes severe burns. Avoid all body contact.
30% hydrogen peroxide will decompose rapidly when exposed to almost any substance and generate significant heat.

FLINN AT-A-GLANCE

Health-2
Flammability-0
Reactivity-3
Exposure-3
Storage-1

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 15 minutes.
External: Wash continuously with fresh water for 15 minutes.
Internal: Give large quantities of water. Call a physician or poison control at once.

SECTION 5 — FIRE FIGHTING MEASURES

Non combustible liquid, but a powerful oxidizer.
Strong oxidizing agent, a dangerous fire and explosion risk when in contact with combustible materials.
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

None
Established

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Restrict unprotected personnel from area and ventilate area. Contain spill with sand or 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 in a Flinn Chem-Saf bag. Use and dispense in a hood and refrigerate.

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.
Solubility: Soluble in water and alcohol.
Formula: H₂O₂
Formula Weight: 34.02

Specific Gravity: 1.112
Melting Point: -25 C
Boiling Point: 106 C

SECTION 10 — STABILITY AND REACTIVITY

Keep away from reducing agents and oxidizable materials. Avoid heating this substance. Avoid inhalation.
Shelf Life: Fair to poor. Stored at room temperature, this substance decomposes at about 0.5% per year.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Corrosive
Chronic effects: Possible mutagen
Target organs: N.A.

ORL-RAT LD50: 1193 mg/kg
IHL-RAT LC50: N.A.
SKN-RBT LD50: 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 consult with state and local regulations.
Flinn Suggested Disposal Method #22a is one option.

SECTION 14 — TRANSPORT INFORMATION

Shipping Name: Hydrogen peroxide, aqueous solutions
Hazard Class: 5.1, Oxidizer, corrosive
UN Number: UN2014
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**