

FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

Material Safety Data Sheet (MSDS)

MSDS #: 398.00

Revision Date: March 14, 2001

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

Consult your copy of the Flinn Scientific Catalog/Reference Manual for additional information about laboratory chemicals. This Material Safety Data Sheet (MSDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. Flinn Scientific Inc. assumes no legal responsibility for use or reliance upon this data.

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Flinn Is No. 1 in Safety

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