

Hydrogen Peroxide Solution 2%-6% Safety Data Sheet (SDS)

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) 424-9852

Signal Word
DANGER

Pictograms

SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Skin irritation (Category 2). Causes skin irritation (H315).

Hazard class: Serious eye damage (Category 1). Causes serious eye damage (H318).



SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Hydrogen peroxide	7722-84-1	H ₂ O ₂	34.02	2-6%
Water	7732-18-5	H ₂ O	18.00	94-98%

SECTION 4 — FIRST AID MEASURES

Call a POISON CENTER or physician if you feel unwell.

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing (P305+P351+P338). **If eye irritation persists eyes:** Get medical advice or attention (P337+P313).

If on skin: Wash with plenty of water (P302+P352). **If skin irritation occurs:** Get medical advice or attention (P332+P313).

If swallowed: Rinse mouth. Call a POISON CENTER or physician if you feel unwell.

SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable, noncombustible solution.

In case of fire: Use a tri-class dry chemical fire extinguisher.

NFPA Code
None established

SECTION 6 — ACCIDENTAL RELEASE MEASURES

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 chlorates, bromates, iodates, chlorites, perchloric acid, and peroxides. Light sensitive. Store in a dark, vented container. Stored at room temperature, this substance decomposes at about 0.5% per year.

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling (P264).

Exposure guidelines: (as hydrogen peroxide) PEL/TLV 1 ppm (OSHA, ACGIH)

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Clear, colorless liquid. Odorless.

Soluble: Water and alcohol

Specific gravity: 1.0

Not for human use.

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. See Section 7 for further information.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Irritant.

Chronic effects: Dermatitis.

Target organs: N.A.

ORL-HUMAN LD₅₀: 1429 mg/kg as hydrogen peroxide

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

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

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 review all federal, state and local regulations that may apply before proceeding.

Flinn Suggested Disposal Method #26b is one option.

SECTION 14 — TRANSPORT INFORMATION

Shipping name: Not regulated. Hazard class: N/A. UN number: N/A.

SECTION 15 — REGULATORY INFORMATION

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

SECTION 16 — OTHER INFORMATION

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

N/A = Not applicable

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

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