



SDS #: 398

Revision Date: July 22, 2015

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## Safety Data Sheet (SDS)

### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

## Hydrogen Peroxide 30%

Signal Word  
**DANGER**

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261  
Chemtrec Emergency Phone Number: (800) 424-9851

Pictograms

### SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Oxidizing liquids (Category 1). May cause fire or explosion; strong oxidizer (H271). Keep away from heat, sparks, open flames, and hot surfaces. No smoking (P210).

Hazard class: Acute toxicity, oral (Category 4). Harmful if swallowed (H302). Do not eat, drink or smoke when using this product (P270).

Hazard class: Skin corrosion; serious eye damage (Category 1A,1). Causes severe skin burns and eye damage (H314+H318).

Hazard class: Acute toxicity, inhalation (Category 5). May be harmful if inhaled (H333).



### SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Hydrogen peroxide	7722-84-1	H <sub>2</sub> O <sub>2</sub>	34.02	30%
Water	7732-18-5	H <sub>2</sub> O	18.00	70%
Synonyms: Hydrogen dioxide				

### SECTION 4 — FIRST AID MEASURES

Call a POISON CENTER or physician if you feel unwell (P312).

**If inhaled:** Remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P340).

**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). Immediately call a POISON CENTER or physician (P310).

**If on skin or hair:** Immediately remove all contaminated clothing. Rinse skin with water (P303+P361+P353).

**If swallowed:** Rinse mouth. Immediately call a POISON CENTER or physician (P301+P310+P330).

### SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable, noncombustible solution, but a powerful oxidizer.

Strong oxidizing agent; dangerous fire and explosion risk when in contact with combustible

NFPA Code

materials.

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

In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosions (P371+P380+P375).

H-3  
F-0  
R-1  
Oxidizer

## SECTION 6 — ACCIDENTAL RELEASE MEASURES

Ventilate area. Contain the spill with sand or other inorganic 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. Use only in a hood or well-ventilated area (P271).

## SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling (P264). Wear fire- or flame-resistant clothing (P283). Contaminated work clothing should not be allowed out of the workplace (P272). Use only in a hood or well-ventilated area (P271).

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

## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Clear, colorless, liquid. Slightly acrid odor.

Soluble: Water and alcohol

Boiling point: 106 °C

Melting point: -25 °C

pH (30%): 3.3

Specific gravity: 1.112

Vapor density: 1.17

## 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: Corrosive to all body tissues.

Chronic effects: Dermatitis.

Target organs: N.A.

ORL-HUMAN LD<sub>50</sub>: 1429 mg/kg

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

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

## SECTION 12 — ECOLOGICAL INFORMATION

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

## SECTION 13 — DISPOSAL CONSIDERATIONS

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

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

## SECTION 15 — REGULATORY INFORMATION

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

## SECTION 16 — OTHER INFORMATION

This Safety Data Sheet (SDS) 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. The data should not be confused with local, state, federal or insurance mandates, regulations, or requirements and CONSTITUTE NO WARRANTY. Any use of this data and information must be determined by the science instructor to be in accordance with

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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.**

**Revision Date:** July 22, 2015

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