

# Material Safety Data Sheet



---

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

---

Vi-Jon Incorporated  
8515 Page Avenue  
Saint Louis, MO 63114

Phone: 314-427-1000  
**In Case of Spill Emergency Contact:**  
Chemtrec: 1-800-424-9300

**Product Name:** 3% Hydrogen Peroxide USP

**Product Code:** 871

**Product Use:** Cleaning

**Issue Date:** 03/19/2008

**Supersedes Date:** June 2007

---

## Section 2: HAZARDS IDENTIFICATION

---

**EMERGENCY OVERVIEW:** Keep out of reach of children.

Appearance/Odor: Clear, colorless liquid with an ozone-like to odorless odor.

**WARNING:**

Strong Oxidizer and Corrosive (Hydrogen Peroxide)

Target (Hydrogen Peroxide) eye, skin and upper respiratory tract irritation.

Harmful to fish (Hydrogen Peroxide).

**Potential Health Effects:** See Section 11 for more information.

**Symptoms of Exposure:**

Inhalation: May cause irritation of the respiratory tract.

Ingestion: May cause nausea, vomiting and diarrhea.

Eyes: May cause irritation to the eyes.

Skin: May cause irritation to the skin.

IARC group – Group 3 (Not Classifiable)

This product does not contain any carcinogens or potential carcinogens as listed by OSHA or NTP.

This material contains a component that is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Potential Environmental Effects:** See Section 12 for more information.

### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS#	% by Wt.
Hydrogen Peroxide	7722-84-1	3%

### Section 4: FIRST AID MEASURES

#### Emergency first aid procedures by route of exposure:

**Inhalation:** If symptoms are experienced, remove source of contamination or move victim to fresh air. If affected person is not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Ingestion:** Do not induce vomiting. If the material is swallowed, get medical attention or advice.

**Skin:** After skin contact, flush with water. If irritation persists, get medical attention.

**Eyes:** Immediately flush eyes with water for at least 15 minutes while holding eyelids open. If symptoms persist, get medical attention.

### Section 5: FIRE FIGHTING MEASURES

**Flash Point:** Not Available

**Method Used:** Not Available

**Auto Ignition:** Not Available

**Flammability Classification:** Not Available

**Suitable Extinguishing Media:** Use large quantities of water as fog to fight fires in which this material is involved.

**Unsuitable Extinguishing Media:** Chemical extinguishing agents may accelerate decomposition.

**Products of Combustion:** Upon decomposition this product may emit carbon dioxide, carbon monoxide and/or low molecular weight hydrocarbons.

**Fire Fighting Equipment/Instructions:** Wear protective clothing and equipment suitable for the surrounding fire, including helmet, facemask, and self contained breathing apparatus.

**NFPA Rating:** Health:1 Fire: 0 Instability:1

**Hazard Scale:** 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

### Section 6: ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** For large spills wear gloves, safety glasses and when levels exceed OSHA PEL use appropriate NIOSH approved positive pressure self-contained breathing respiratory protection. Keep unnecessary personnel away.

**Environmental Precautions:** Do not discharge into open waters.

**Method for Containment:** Absorb spilled liquid in suitable inert material such as clay, vermiculite or diatomaceous earth.

**Methods for Clean-Up:** Ventilate area of leak or spill. Use spark-proof tools to sweep or scrape up and containerize in approved chemical waste container. Use water spray to cool and disperse vapors and protect personnel. Wash spill area with water.

---

## Section 7: HANDLING AND STORAGE

---

**Handling:** Strong oxidizer. Not combustible, but promotes combustion in combination with combustibles. May cause spontaneous combustion if allowed to remain in contact with readily oxidizable materials.

**Storage:** Keep the container tightly closed and in a cool, well ventilated place.

---

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

---

### Exposure Guidelines

Hydrogen Peroxide (7722-84-1)

ACGIH: 1 ppm TWA

OSHA: 1 ppm TWA; 1.4 mg/m<sup>3</sup> TWA

**Engineering Controls:** Normal room ventilation is usually adequate under normal use.

### Personal Protective Equipment (PPE)

**Eye/Face Protection:** None needed under normal use.

**Skin Protection:** None needed under normal use.

**Respiratory Protection:** None needed under normal use.

**General Hygiene Considerations:** Wash hands after use.

---

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

---

**Appearance/Color:** Clear, Colorless

**Odor:** Ozone like to odorless

**Physical State:** Liquid

**pH:** Not Available

**Vapor Density:** (Hydrogen Peroxide) 1.2 (air = 1)

**Boiling Point:** Not Available

**Vapor Pressure:** Not Available

**Melting Point:** Not Available

**Freezing Point:** Not Available

**Flash Point** (see section 5)

**Flammability Properties** (see section 5)

**Solubility** (in water): Soluble

**Density @ 25°C:** 0.909-1.111 g/mL

**Evaporation Rate:** Not Available

**Octanol/Water partition coefficient (K<sub>ow</sub>):** Not Available

**Auto-ignition temperature:** Not Available

**Decomposition temperature:** Not Available

---

## Section 10: STABILITY AND REACTIVITY

---

**Stability:** Stable under normal ambient temperatures 70°C (21°C)

**Condition to Avoid:** Avoid contact with readily oxidizable materials.

**Incompatible Materials:** Combustibles.

**Hazardous Decomposition:** upon decomposition, this product evolves carbon monoxide, carbon dioxide, and/or low weight hydrocarbons.

**Hazardous Reactions:** Hazardous polymerization will not occur.

---

**Section 11: TOXICOLOGY INFORMATION**

---

**ACUTE EFFECTS:****A: General Product information**

Product contains hydrogen peroxide. Not expected to cause irritation when used in accordance to label.

**B: Component Analysis LD50**

Hydrogen Peroxide (7722-84-1)  
Inhalation LC50 Rat: 2 mg/l/4H  
Oral LD50 Rat: 801 mg/kg  
Dermal LD50 Rat: 4060mg/kg  
Dermal LD50 Rabbit: 2000 mg/kg

**CHRONIC EFFECTS:****Component**

Hydrogen Peroxide (7722-84-1)

**Carcinogenicity:** ACGIH A3 – Confirmed animal carcinogen with unknown relevance to humans.

**Neurotoxicity:** No information available for product.

**Mutagenicity:** No information available for product.

**Reproductive:** No information available for product.

**Developmental:** No information available for product.

**Target Organs:** Eye, skin and upper respiratory tract irritation.

---

**Section 12: ECOLOGICAL INFORMATION**

---

**Ecotoxicity:** Hydrogen Peroxide (7722-84-1)  
Category 3 – Harmful to fish

72 Hr EC50 Chlorella Vulgaris: 2.5 mg/L  
48 Hr LC50 Cyprinus Carpio: 42 mg/L  
96 Hr LC50 Pimephales promelas: 16.4 mg/L  
24 Hr LC50 Cyprinus carpio: 42 mg/L  
96 Hr LC50 Pimephales promelas: 16.4 mg/L  
24 Hr EC50 Daphnia magna: 7.7 mg/L

---

**Section 13: DISPOSAL CONSIDERATIONS**

---

Dispose of in accordance with federal, state, and local regulations.

---

**Section 14: TRANSPORTATION INFORMATION**

---

This material is not regulated as a hazardous material for transportation.

---

**Section 15: REGULATORY INFORMATION**

---

Hydrogen Peroxide, a component of this product, is on the TSCA inventory and Cercla/Sara.

The following components appear on one or more of the following state hazardous substance lists:

Component	CAS#	CA	MA	MN	NJ	PA
Hydrogen Peroxide	7722-84-1	YES	Yes	Yes	Yes	Yes

---

**Section 16: Other Information**

---

Prepared by: Vi-Jon Inc.

**Disclaimer:**

The information and recommendations contained in the Material Safety Data Sheet (MSDS) are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. The information and recommendations set forth herein are presented in good faith and believed to be correct as of this date hereof.

Vi-Jon, however, makes no representation as to the completeness or accuracy thereof, and information is supplied upon the express condition that the persons receiving the information will be required to make their own determination as to its suitability for their purposes prior to use. In no event will Vi-Jon be responsible for any damages of any nature whatsoever resulting from the use of, reliance upon, or the misuse of this information. User assumes all risk of use, storage and handling of the product in compliance with applicable federal, state and local laws and regulations.

NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR OF ANY OTHER NATURE, ARE MADE BY VI-JON HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH THE INFORMATION REFERS. The information as supplied herein is simply to be informative and intended solely to alert the user of the substance which is the subject matter of this MSDS. The ultimate compliance with federal, state or local regulations concerning the use of this compound, or compliance with respect to product liability, rests solely upon the purchaser thereof.

This information relates to the material designated and may not be valid for such material used in combination with any other materials nor in any process.