

# SPARTAN

## Material Safety Data Sheet

000051

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Revision Number 0

Product Name Hydrogen Peroxide 3% 871

Recommended Use Personal care.

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### CAUTION!

#### Emergency Overview

May be harmful if swallowed  
Irritating to eyes

Appearance Clear, colorless solution

Physical State Liquid.

Odor Odorless

#### Potential Health Effects

##### Principle Routes of Exposure

Eye contact. Skin contact.

##### Acute Toxicity

Eyes  
Skin  
Inhalation  
Ingestion

Irritating to eyes.  
May cause irritation.  
Not an expected route of exposure.  
May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

##### Chronic Effects

No known effect based on information supplied.

##### Aggravated Medical Conditions

Pre-existing eye disorders. Skin disorders.

##### Environmental Hazard

See Section 12 for additional Ecological information.

| Chemical Name     | CAS-No    | Weight % |
|-------------------|-----------|----------|
| Water             | 7782-18-5 | 80-100   |
| Hydrogen peroxide | 7722-84-1 | 3-7      |

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|                           |  |
|---------------------------|--|
| <b>Eye Contact</b>        | Rinse thoroughly with plenty of water, also under the eyelids. Call a physician immediately.         |
| <b>Skin Contact</b>       | Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician. |
| <b>Inhalation</b>         | Move to fresh air. If symptoms persist, call a physician.  |
| <b>Ingestion</b>          | Do NOT induce vomiting. Drink plenty of water. If symptoms persist, call a physician.                |
| <b>Notes to Physician</b> | Treat symptomatically.   |

**HAZARD IDENTIFICATION**

|   |  |
|---|--|
| <b>Flammable Properties</b>             | Not flammable.   |
| <b>Flash Point</b>                      | 1000C / 1832F  |
| <b>Suitable Extinguishing Media</b>     | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  |
| <b>Uniform Fire Code</b>                | - Irritant Liquid<br><i>This product contains a Class 1 Oxidizer as defined by the Uniform Fire Code</i> |
| <b>Hazardous Combustion Products</b>    | On decomposition product releases oxygen which may intensify fire.                                       |
| <b>Explosion Data</b>                   | No.  |
| <b>Sensitivity to Mechanical Impact</b> | No.  |
| <b>Sensitivity to Static Discharge</b>  | No.  |

**Protective Equipment and Precautions for Firefighters**  
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

|             |                        |                       |                    |  |
|-------------|------------------------|-----------------------|--------------------|--|
| <b>NFPA</b> | <b>Health Hazard 1</b> | <b>Flammability 0</b> | <b>Stability 1</b> | <b>Physical and Chemical Hazards -</b> |
|-------------|------------------------|-----------------------|--------------------|--|

**HAZARD PREVENTION**

|                                  |   |
|----------------------------------|---|
| <b>Personal Precautions</b>      | Avoid contact with eyes.  |
| <b>Environmental Precautions</b> | Refer to protective measures listed in Sections 7 and 8.  |
| <b>Methods for Containment</b>   | Prevent further leakage or spillage if safe to do so.   |
| <b>Methods for Cleaning Up</b>   | Dam up. Cover liquid spill with sand, earth or other noncombustible absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly. |

**HAZARD PREVENTION STORAGE**

|                 |  |
|-----------------|--|
| <b>Handling</b> | Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. |
| <b>Storage</b>  | Keep container tightly closed. Protect from light.   |

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**Exposure Guidelines**

| Chemical Name                  | ACGIH TLV  | OSHA PEL   | NIOSH IDLH   |
|--------------------------------|------------|--|--|
| Hydrogen peroxide<br>7722-84-1 | TWA: 1 ppm | TWA: 1 ppm<br>TWA: 1.4 mg/m <sup>3</sup><br>(vacated) TWA: 1 ppm<br>(vacated) TWA: 1.4 mg/m <sup>3</sup> | IDLH: 79 ppm<br>TWA: 1 ppm<br>TWA: 1.4 mg/m <sup>3</sup> |

*Immediately Dangerous to Life or Health.*

**Engineering Measures**                      Showers  
 Eyewash stations  
 Ventilation systems

**Personal Protective Equipment**  
Eye/Face Protection                      Safety glasses with side-shields.  
Skin and Body Protection                Protective gloves.  
Respiratory Protection                    No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**Hygiene Measures**                          Handle in accordance with good industrial hygiene and safety practice.



|   |                            |                                 |                          |
|---|----------------------------|---------------------------------|--------------------------|
| <b>Appearance</b>                             | Clear, colorless solution. | <b>Odor</b>                     | Odorless.                |
| <b>Odor Threshold</b>                         | No information available.  | <b>Physical State</b>           | Liquid                   |
| <b>pH</b>                                     | 7                          | <b>Autoignition Temperature</b> | No information available |
| <b>Flash Point</b>                            | 1832F / 1000C              | <b>Boiling Point/Range</b>      | No information available |
| <b>Decomposition Temperature</b>              | No information available   | <b>Explosion Limits</b>         | No information available |
| <b>Melting Point/Range</b>                    | No information available   | <b>Solubility</b>               | No information available |
| <b>Flammability Limits in Air</b>             | No information available   | <b>Vapor Pressure</b>           | No data available        |
| <b>Water Solubility</b>                       | Soluble in water.          | <b>VOC Content (%)</b>          | Not applicable           |
| <b>Evaporation Rate</b>                       | No information available   |                                 |                          |
| <b>Vapor Density</b>                          | No data available          |                                 |                          |
| <b>Partition Coefficient: n-octanol/water</b> |                            |                                 |                          |



**Stability**    Stable under recommended storage conditions.

**Incompatible Products**                        Reducing agents. Organic material. Alkalis. Metals.

**Conditions to Avoid**                            Excessive heat.

**Hazardous Decomposition Products**        Oxygen.

**Hazardous Polymerization**                    Hazardous polymerization does not occur.



**Acute Toxicity**

**Product Information**



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Irritation Irritating to eyes.

| Chemical Name     | LD50 Oral           | LD50 Dermal                                     | LC50 Inhalation      |
|-------------------|---------------------|---|----------------------|
| Water             | 90080 mg/kg (rat)   | -   | -                    |
| Hydrogen peroxide | = 801 mg/kg ( Rat ) | = 4060 mg/kg ( Rat )<br>= 2000 mg/kg ( Rabbit ) | = 2 mg/L ( Rat ) 4 h |

Chronic Toxicity

Chronic Toxicity No known effect based on information supplied.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical Name     | ACGIH | IARC    | NYP | OSMA |
|-------------------|-------|---------|-----|------|
| Hydrogen peroxide | A3    | Group 3 |     |      |

ACGIH: (American Conference of Governmental Industrial Hygienists)  
 A3 - Animal Carcinogen  
 IARC: (International Agency for Research on Cancer)  
 Group 3 - Not Classifiable as to Carcinogenicity in Humans

Target Organ Effects Eyes, Skin.



Ecotoxicity

The environmental impact of this product has not been fully investigated.

| Chemical Name     | Toxicity to Algae                            | Toxicity to Fish   | Toxicity to Microorganisms | Daphnia Magna (Water Flea)   |
|-------------------|--|--|----------------------------|--|
| Hydrogen peroxide | EC50: 2.6 mg/L (72 h )<br>Chlorella vulgaris | LC50: 10.0-32.0 mg/L (96 h static)<br>Oncorhynchus mykiss<br>LC50: 16.4 mg/L (96 h )<br>Pimephales promelas<br>LC50: 18-68 mg/L (96 h static)<br>Lepomis macrochirus |                            | EC50: 18 - 32 mg/L (48 h static)<br>Daphnia magna<br>EC50: 7.7 mg/L (24 h )<br>Daphnia magna |



Waste Disposal Methods This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated Packaging Dispose of in accordance with local regulations.

California Hazardous Waste Codes 135

This product contains one or more substances that are listed with the State of California as a hazardous waste.

| Chemical Name     | California EHW | California Carc | California Hazardous Waste                  | California Waste - Part 2 |
|-------------------|----------------|-----------------|---|---------------------------|
| Hydrogen peroxide |                |                 | Toxic<br>Corrosive<br>Ignitable<br>Reactive |                           |

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**International Inventories**

TSCA Exempt  
 DSL Complies

**U.S. Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1980 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**

|                                   |     |
|-----------------------------------|-----|
| Acute Health Hazard               | Yes |
| Chronic Health Hazard             | No  |
| Fire Hazard                       | No  |
| Sudden Release of Pressure Hazard | No  |
| Reactive Hazard                   | No  |

**Clean Water Act**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

| Chemical Name     | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|-------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Hydrogen peroxide | X                           | X                      | X                         | X                          |

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product does not contain any substances regulated as hazardous air pollutants (HAPs) under Section 112 of the Clean Air Act Amendments of 1990.

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

| Chemical Name     | Hazardous Substances RQs | Extremely Hazardous Substances RQs |
|-------------------|--------------------------|------------------------------------|
| Hydrogen peroxide |                          | 1000 lb                            |

**U.S. State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

**U.S. State Regulations**

| Chemical Name         | Massachusetts | New Jersey | Pennsylvania | Illinois | Rhode Island |
|-----------------------|---------------|------------|--------------|----------|--------------|
| Supplier Trade Secret | X             | X          | X            |          | X            |

**International Regulations**

**Mexico - Grade**

Slight risk, Grade 1

| Chemical Name         | Carcinogen Status | Exposure Limits  |
|-----------------------|-------------------|--|
| Supplier Trade Secret | A3                | Mexico: TWA 1 ppm<br>Mexico: TWA 1.5 mg/m <sup>3</sup><br>Mexico: STEL 2 ppm<br>Mexico: STEL 3 mg/m <sup>3</sup> |

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|                 |               |
|-----------------|---------------|
| <u>DOT</u>      | Not regulated |
| <u>TDG</u>      | Not regulated |
| <u>MEX</u>      | Not regulated |
| <u>ICAO</u>     | Not regulated |
| <u>IATA</u>     | Not regulated |
| <u>IMDG/IMO</u> | Not regulated |

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Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class  
D1B Toxic materials  
E Corrosive material



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**General Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet