

## SAFETY DATA SHEET

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifiers

Product name: Hydrogen Peroxide 30%  
CAS number: 7722-84-1  
Synonyms: Hydrogen Peroxide (H<sub>2</sub>O<sub>2</sub>)

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified Uses: Laboratory Chemicals.

#### 1.3 Details of the supplier of the safety data sheet

Company : Lab Alley, LLC  
22111 Highway 71 West, Suite 601  
Spicewood, Texas 78669  
U.S.A.

Telephone : 512-668-9918  
Fax : 512-886-4008

#### 1.4 Emergency telephone

Emergency Phone # : US & Canada: 1-800-535-5053      INFOTRAC  
International 1-352-323-3500      INFOTRAC

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Oxidizing liquids (Category 2)  
Acute toxicity, oral (Category 4)  
Serious eye damage/eye irritation (Category 1)

## 2.2 GHS Label elements, including precautionary statements

Pictogram:



Signal Word:

**Danger**

Hazard statement(s):

May intensify fire; oxidizer. Harmful if swallowed. Causes serious eye damage.

Precautionary statement(s):

**Prevention** - Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/ face protection. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep/Store away from clothing/flammable materials/combustibles. Take any precaution to avoid mixing with combustibles/flammables. **Response** - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor. IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical attention if symptoms occur. IF ON SKIN OR CLOTHING: Wash with plenty of water. Take off contaminated clothing and wash before reuse. If skin irritation occurs: Get medical advice/attention.

### Hazards not otherwise classified

No hazards not otherwise classified were identified.

## SECTION 3: Composition/information on ingredients

### 3.1 Components

| Chemical name     | CAS-No    | Weight % |
|-------------------|-----------|----------|
| Hydrogen peroxide | 7722-84-1 | 30       |
| Water             | 7732-18-5 | 70       |

## SECTION 4: First aid measures

### 4.1 Description of first-aid measures

**General advice:**

If symptoms persist, call a physician.

**If inhaled:**

Move to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.

**In case of skin contact:** Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.

**In case of eye contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

**In case of ingestion:** Clean mouth with water and drink afterwards plenty of water.

## 4.2 Most important symptoms and effects, both acute and delayed

Causes severe eye damage.

## 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically

# SECTION 5: Firefighting measures

## 5.1 Extinguishing media

**Suitable (and unsuitable) extinguishing media** Use water spray or fog; do not use straight streams.

## 5.2 Specific hazards arising from the substance or mixture

Corrosive Material. Containers may explode when heated. Oxidizer: Contact with combustible/organic material may cause fire. In the event of fire and/or explosion do not breathe fumes. Thermal decomposition can lead to release of irritating gases and vapors. May ignite combustibles (wood paper, oil, clothing, etc.).

## 5.3 Special 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.

## 5.4 Further information

None.

# SECTION 6: Accidental release measures

## 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment. Do not use steel or aluminum tools or equipment

## 6.2 Environmental precautions

Should not be released into the environment. Do not flush into surface water or sanitary sewer system.

### 6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Sweep up and shovel into suitable containers for disposal.

### 6.4 Reference to other sections

For disposal see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Ensure adequate ventilation. Keep away from clothing and other combustible materials.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. To maintain product quality. Keep refrigerated. Keep away from direct sunlight. Do not store in metal containers. Containers should be vented periodically in order to overcome pressure buildup. Do not store near combustible materials.

## SECTION 8. Exposure controls/personal protection

### 8.1 Occupational exposure limits

#### Control parameters

#### Exposure Guidelines

Ingredients with workplace control parameters.

| Chemical name                  | ACGIH TLV        | OSHA PEL                                 | NIOSH  | Mexico   |
|--------------------------------|------------------|--|--|--|
| Hydrogen peroxide<br>7722-84-1 | TWA: 1 ppm       | TWA: 1 ppm<br>TWA: 1.4 mg/m <sup>3</sup> | IDLH: 75 ppm<br>TWA: 1 ppm<br>TWA: 1.4 mg/m <sup>3</sup> | 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> |
| Chemical name                  | British Columbia | Quebec                                   | Ontario TWAEV  | Alberta  |
| Hydrogen peroxide<br>7722-84-1 | TWA: 1 ppm       | TWA: 1 ppm<br>TWA: 1.4 mg/m <sup>3</sup> | TWA: 1 ppm   | TWA: 1 ppm<br>TWA: 1.4 mg/m <sup>3</sup>   |

## 8.2 Exposure controls

### Appropriate engineering controls

Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation especially in confined areas.

### Personal protective equipment

#### Eye/face protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

#### Skin and body protection

Long sleeved clothing.

#### Respiratory protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

#### Control of environmental exposure

Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation especially in confined areas.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|  |                              |
|--|------------------------------|
| <b>Physical State</b>                  | Liquid.                      |
| <b>Appearance</b>                      | Clear.                       |
| <b>Odor</b>                            | Pungent.                     |
| <b>Odor Thresh</b>                     | No information available.    |
| <b>pH</b>                              | 3.3                          |
| <b>Melting Point/Range</b>             | -33 °C / -27.4 °F            |
| <b>Boiling Point/Range</b>             | 108 °C / 226.4 °F @ 760 mmHg |
| <b>Flash Point</b>                     | Not applicable.              |
| <b>Evaporation Rate</b>                | > 1.0 (Butyl acetate = 1.0)  |
| <b>Flammability (solid, gas)</b>       | Not applicable.              |
| <b>Flammability or explosive limit</b> |                              |
| <b>Upper</b>                           | : No data available.         |
| <b>Lower</b>                           | : No data available.         |

|   |                           |
|---|---------------------------|
| <b>Vapor Pressure</b>                         | 23 mm Hg @ 30 °C          |
| <b>Vapor Density</b>                          | 1.10                      |
| <b>Density</b>                                | 1.11                      |
| <b>Solubility</b>                             | Miscible with water.      |
| <b>Partition coefficient; n-octanol/water</b> | No data available.        |
| <b>Autoignition Temp</b>                      | No information available. |
| <b>Decomposition Temp</b>                     | No information available. |
| <b>Viscosity</b>                              | No information available. |
| <b>Molecular Formula</b>                      | H2O2                      |
| <b>Molecular Weight</b>                       | 34.01                     |
| <b>VOC Content(%)</b>                         | No data available.        |
| <b>Oxidizing properties</b>                   | No data available.        |

## 9.2 Other safety information

None.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Yes

### 10.2 Chemical stability

Oxidizer. Contact with combustible/organic material may cause fire. Light sensitive.

### 10.3 Possibility of hazardous reactions

None under normal processing. Hazardous polymerization does not occur.

### 10.4 Conditions to avoid

Incompatible products. Excess heat. Exposure to light. Combustible material.

### 10.5 Incompatible materials

Strong oxidizing agents, Metals, Reducing agents, Alcohols, Ammonia, copper, Copper alloys, lead oxides, Cyanides, Sulfides, lead, Acetone, Aluminium, , Strong reducing agents, Combustible material

### 10.6 Hazardous decomposition products

Hydrogen, Oxygen.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute Toxicity

#### Product Information

#### Oral LD50

#### Dermal LD50

#### Vapor LC50

#### Component Information

Category 4. ATE = 300 - 2000 mg/kg.

Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.

Based on ATE data, the classification criteria are not met. ATE > 20 mg/l.

| Component         | LD50 Oral   | LD50 Dermal            | LC50 Inhalation                           |
|-------------------|---|------------------------|---|
| Water             | -   | Not listed             | Not listed                                |
| Hydrogen peroxide | 376 mg/kg ( Rat ) (90%)<br>910 mg/kg ( Rat ) (20-60%)<br>1518 mg/kg ( Rat ) (8-20% sol) | >2000 mg/kg ( Rabbit ) | LC50 = 2000 mg/m <sup>3</sup> ( Rat ) 4 h |

**Toxicologically Synergistic Products** No information available

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Skin corrosion/irritation**

May cause irritation.

**Serious eye damage/eye irritation**

Causes severe eye burns. May cause irritation.

**Respiratory or skin sensitization**

No information available.

**Germ cell mutagenicity**

This product is not recognized as mutagenic by Research Agencies. In vivo tests did not show mutagenic effects.

**Carcinogenicity**

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

| Component         | CAS-No    | IARC       | NTP        | ACGIH      | OSHA       | Mexico     |
|-------------------|-----------|------------|------------|------------|------------|------------|
| Water             | 7732-18-5 | Not listed | Not listed | Not listed | Not listed | Not listed |
| Hydrogen peroxide | 7722-84-1 | Not listed | Not listed | A3         | Not listed | A3         |

*IARC: (International Agency for Research on Cancer)*

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*Group 1 - Carcinogenic to Humans*

*Group 2A - Probably Carcinogenic to Humans*

*Group 2B - Possibly Carcinogenic to Humans*

*A1 - Known Human Carcinogen*

*A2 - Suspected Human Carcinogen*

*A3 - Animal Carcinogen*

*ACGIH: (American Conference of Governmental Industrial Hygienists)*

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*Mexico - Occupational Exposure Limits - Carcinogens*

*Mexico - Occupational Exposure Limits - Carcinogens*

*A1 - Confirmed Human Carcinogen*

*A2 - Suspected Human Carcinogen*

*A3 - Confirmed Animal Carcinogen*

*A4 - Not Classifiable as a Human Carcinogen*

*A5 - Not Suspected as a Human Carcinogen*

**Reproductive toxicity**

No information available.

**Specific target organ toxicity - single exposure**

None known.

**Specific target organ toxicity - repeated exposure**

None known.

**Aspiration hazard**

No information available.

**Chronic effects**

No information available.

## 11.2 Additional information

None.

## SECTION 12. Ecological information

### 12.1 Toxicity

#### Ecotoxicity

Contains a substance which is: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

| Component         | Freshwater Algae  | Freshwater Fish                     | Microtox   | Water Flea        |
|-------------------|-------------------|-------------------------------------|------------|-------------------|
| Hydrogen peroxide | EC50 2.5 mg/L/72h | LC50: 16.4 mg/L/96h<br>(P.promelas) | Not listed | EC50 7.7 mg/L/24h |

### 12.2 Persistence and degradability

Persistence is unlikely Decomposes Soluble in water based on information available.

### 12.3 Bio accumulative potential

No information available.

### 12.4 Mobility in soil

Will likely be mobile in the environment due to its water solubility.

| Component         | log Pow |
|-------------------|---------|
| Hydrogen peroxide | -1.1    |

### 12.5 Results of PBT and vBvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

### 12.6 Endocrine disrupting properties

No information available.

### 12.7 Other adverse effects

The toxicological properties have not been fully investigated.

## SECTION 13. Disposal considerations

### 13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.



## SECTION 14: Transport information

### DOT

**UN-No** UN2014  
**Proper Shipping Name** Hydrogen peroxide, aqueous solutions  
**Hazard Class** 5.1  
**Packing Group** II

### TDG

**UN-No** UN2014  
**Proper Shipping Name** Hydrogen peroxide, aqueous solutions  
**Hazard Class** 5.1  
**Packing Group** II

### IMDG/IMO

**UN-No** UN2014  
**Proper Shipping Name** Hydrogen peroxide, aqueous solutions  
**Hazard Class** 5.1  
**Packing Group** II

### ICAO/IATA

**UN-No** UN2014  
**Proper Shipping Name** Hydrogen peroxide, aqueous solutions  
**Hazard Class** 5.1  
**Packing Group** II

## SECTION 15: Regulatory information

### United States of America Inventory

| Component         | CAS-No    | TSCA | TSCA Inventory notification - Active/Inactive | TSCA - EPA Regulatory Flags |
|-------------------|-----------|------|---|-----------------------------|
| Water             | 7732-18-5 | X    | ACTIVE  | -                           |
| Hydrogen peroxide | 7722-84-1 | X    | ACTIVE  | -                           |

**TSCA 12(b)** - Notices of Export      Not applicable

### International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL).

| Component         | CAS-No    | DSL | NDSL | EINECS    | PICCS | ENCS | AICS | IECSC | KECL     |
|-------------------|-----------|-----|------|-----------|-------|------|------|-------|----------|
| Water             | 7732-18-5 | X   | -    | 231-791-2 | X     | -    | X    | X     | KE-35400 |
| Hydrogen peroxide | 7722-84-1 | X   | -    | 231-765-0 | X     | X    | X    | X     | KE-20204 |

### U.S. Federal Regulations

**SARA 313**      Not applicable

**SARA 311/312 Hazard Categories**      See section 2 for more information

**CWA (Clean Water Act)**      Not applicable

**Clean Air Act**      Not applicable

**OSHA** - Occupational Safety and Health Administration

| Component         | Specifically Regulated Chemicals | Highly Hazardous Chemicals |
|-------------------|----------------------------------|----------------------------|
| Hydrogen peroxide | -                                | TQ: 7500 lb                |

**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)

| Component         | Hazardous Substances RQs | CERCLA EHS RQs |
|-------------------|--------------------------|----------------|
| Hydrogen peroxide | -                        | 1000 lb        |

**California Proposition 65** This product does not contain any Proposition 65 chemicals

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

| Component         | Massachusetts | New Jersey | Pennsylvania | Illinois | Rhode Island |
|-------------------|---------------|------------|--------------|----------|--------------|
| Water             | -             | -          | X            | -        | -            |
| Hydrogen peroxide | X             | X          | X            | -        | X            |

**U.S. Department of Transportation**

Reportable Quantity (RQ): N  
 DOT Marine Pollutant N  
 DOT Severe Marine Pollutant N

**U.S. Department of Homeland Security**

This product contains the following DHS chemicals:  
**Legend** - STQs = Screening Threshold Quantities, APA = A placarded amount

| Component         | DHS Chemical Facility Anti-Terrorism Standard |
|-------------------|---|
| Hydrogen peroxide | Theft STQs - 400lb (concentration >=35%)      |

**Other International Regulations**

**Mexico - Grade** No information available

**SECTION 16: Other information**

Issue Date 10/28/2009  
 Revision Date 07/20/2023

**Disclaimer:**

The information provided on 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.