



## 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 N/A

#### 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  
12501 Pauls Valley Road  
Austin, Texas 78737  
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 3)

Acute Toxicity (Category 4)

Serious Eye Damage (Category 1)

Specific Target Organ Toxicity (single exposure) (Category 3)

Target Organ(s) - Respiratory system

## 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word

Danger

Hazard statements

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

Precautionary statements

Prevention: Keep away from heat. Keep /store away from clothing /combustible materials. Take any precaution to avoid mixing with combustibles. Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. Wash skin thoroughly after handling. Do not eat, drink, or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/ eye protection/ face protection.  
IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.  
IF INHALED: Remove a person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.  
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/doctor.  
Fire: In case of fire, use dry chemical, or alcohol-resistant foam to extinguish.  
Storage: Store in a well-ventilated place. Keep container tightly closed. Store locked up.  
Disposal: Dispose of contents/ container to an approved waste disposal plant.

## 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

None identified.

### SECTION 3: Composition/information on ingredients

#### 3.1 Components

| Chemical name     | Common name and synonyms     | CAS number | Concentration |
|-------------------|------------------------------|------------|---------------|
| Water             | Aqua; H <sub>2</sub> O       | 7732-18-5  | 70%           |
| Hydrogen Peroxide | Hydrogen dioxide; Hyperoxide | 7722-84-1  | 30%           |

### SECTION 4: First aid measures

#### 4.1 Description of first-aid measures

General advice

|                                |                                                                                                                                                    |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>If inhaled</b>              | Remove to fresh air. Get medical attention immediately if symptoms occur.                                                                          |
| <b>In case of skin contact</b> | Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.                            |
| <b>In case of eye contact</b>  | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists. Get medical advice/attention. |
| <b>If swallowed</b>            | Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.                                              |

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

None reasonably foreseeable.

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

If symptoms persist, call a physician. Treat symptomatically.

# SECTION 5: Firefighting measures

## 5.1 Extinguishing media

|                                       |                                                                                    |
|---------------------------------------|------------------------------------------------------------------------------------|
| <b>Suitable extinguishing media</b>   | Water spray, alcohol-resistant foam, BC-powder, Carbon dioxide (CO <sub>2</sub> ). |
| <b>Unsuitable extinguishing media</b> | Water jet.                                                                         |

## 5.2 Specific hazards arising from the substance or mixture

Non-combustible. Containers may explode when heated.  
Hazardous Combustion Products: Oxygen.

## 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

**Flash Point** No information available.

**Autoignition Temperature** No information available.

### Explosion limits

|              |                   |
|--------------|-------------------|
| <b>Upper</b> | No data available |
| <b>Lower</b> | No data available |

**Sensitivity to Mechanical Impact**

No information available.

**Sensitivity to Static Discharge**

No information available.

**NFPA**

| Health | Flammability | Instability | Physical hazards |
|--------|--------------|-------------|------------------|
| 3      | 0            | 1           | OX               |

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Avoid contact with skin and eyes.

### 6.2 Environmental precautions

Should not be released into the environment.

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

Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.

### 6.4 Reference to other sections

See Section 2 for full list of hazard and precaution statements.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid ingestion and inhalation. Avoid contact with skin, eyes, or clothing.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

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

#### Storage conditions

Keep container tightly closed in a dry and well-ventilated place. Keep cool and protect from sunlight. Contents may develop pressure upon prolonged storage. Containers should be vented periodically in order to overcome pressure buildup. Do not store in metal containers.

#### Incompatibilities

Metals.

## SECTION 8: Exposure controls/personal protection

### 8.1 Occupational exposure limits

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

| Component         | Type | Value |           |
|-------------------|------|-------|-----------|
| Hydrogen Peroxide | TWA  | 1 ppm | 1.4 mg/m3 |

**US. ACGIH Threshold Limit Values**

| Component         | Type | Value |
|-------------------|------|-------|
| Hydrogen Peroxide | TWA  | 1 ppm |

**US. NIOSH: Pocket Guide to Chemical Hazards**

| Component         | Type | Value |           |
|-------------------|------|-------|-----------|
| Hydrogen Peroxide | TWA  | 1 ppm | 1.4 mg/m3 |

**Biological occupational exposure limits**

No information available.

## 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 protection**

Wear appropriate protective gloves and clothing to prevent skin exposure.

**Body Protection**

Wear appropriate protective gloves and clothing to prevent skin exposure.

**Respiratory protection**

No protective equipment is needed under normal use conditions.  
Recommended Filter type: Particle filter.

**Control of environmental exposure**

No information available.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical State

Liquid

|                                           |                                |
|-------------------------------------------|--------------------------------|
| Appearance                                | Colorless                      |
| Odor                                      | Odorless                       |
| Odor Threshold                            | No information available.      |
| pH                                        | No information available.      |
| Melting Point/Range                       | -27 °C (-17 °F)                |
| Boiling Point/Range                       | 106 °C (223 °F)                |
| Evaporation Rate                          | No information available       |
| Flammability (solid)                      | Not applicable                 |
| Flammability or explosive limit           | No data available              |
| Upper                                     | No data available              |
| Lower                                     | No data available              |
| Vapor Pressure                            | 17.4 - 25 mmHg                 |
| Vapor Density                             | No information available       |
| Density                                   | 1.12 @ 20 - 25 °C (68 - 77 °F) |
| Solubility                                | No information available       |
| Partition coefficient;<br>n-octanol/water | No data available              |
| Autoignition Temp                         | No information available       |
| Decomposition Temp                        | No information available       |
| Viscosity                                 | 1.25 mPa.s                     |
| Molecular Formula                         | H2O2                           |
| Molecular Weight                          | 34.01 g/mol                    |
| VOC Content(%)                            | No information available       |
| Oxidizing properties                      | Oxidizer                       |

**9.2 Other safety information** No information available.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

None known, based on information available.

### 10.3 Possibility of hazardous reactions

Product will not undergo hazardous polymerization. Stable under recommended storage conditions.

### 10.4 Conditions to avoid

Exposure to light. Heat. Incompatible products.

### 10.5 Incompatible materials

Reducing agents, bases, alcohols, flammable materials, organic solvent, metals.

## 10.6 Hazardous decomposition products

Oxygen

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Product Information, Component Information

##### Acute toxicity

| Component         | LD50 Oral  | LD50 Dermal | LC50 Inhalation |
|-------------------|------------|-------------|-----------------|
| Hydrogen Peroxide | 1193 mg/kg | -           | -               |

##### Skin corrosion/irritation

Causes severe burns.

##### Serious eye damage/eye irritation

Risk of serious damage to eyes.

##### Respiratory or skin sensitization

No information available.

##### Germ cell mutagenicity

No information available.

##### Carcinogenicity

| Component         | CAS       | IARC       | NTP        | ACGIH | OSHA       | Mexico |
|-------------------|-----------|------------|------------|-------|------------|--------|
| Hydrogen peroxide | 7722-84-1 | Not listed | Not listed | A3    | Not listed | A3     |

##### Specific target organ toxicity - single exposure

Respiratory system.

##### Specific target organ toxicity - repeated exposure

None known.

##### Reproductive toxicity

None known.

##### Chronic effects

No information available.

### 11.2 Additional Information

The toxicological properties have not been fully investigated.

## SECTION 12: Ecological information

### 12.1 Toxicity

| Product           |      | Species                | Test Results   |
|-------------------|------|------------------------|----------------|
| Hydrogen peroxide | LC50 | Water Flea (D.pulex)   | 2.4 mg/L, 48h  |
|                   | EC50 | Microtox (S. costatum) | 1.38 mg/L, 72h |

### 12.2 Persistence and degradability

No information available.

### 12.3 Bio accumulative potential

No information available.

### 12.4 Mobility in soil

No information available.

### 12.5 Results of PBT and vPvB assessment

No information available.

### 12.6 Endocrine disrupting properties

No information available.

### 12.7 Other adverse effects

No information available.

## 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 (US)

|                      |                                      |
|----------------------|--------------------------------------|
| UN-no                | UN2014                               |
| Proper Shipping Name | Hydrogen peroxide, aqueous solutions |
| Hazard Class         | 5.1, 8                               |
| Packing Group        | II                                   |

### IMDG



|                      |                                      |
|----------------------|--------------------------------------|
| UN-no                | UN2014                               |
| Proper Shipping Name | Hydrogen peroxide, aqueous solutions |
| Hazard Class         | 5.1, 8                               |
| Packing Group        | II                                   |

## **IATA**

|                      |                                      |
|----------------------|--------------------------------------|
| UN-no                | UN2014                               |
| Proper Shipping Name | Hydrogen peroxide, aqueous solutions |
| Hazard Class         | 5.1, 8                               |
| Packing Group        | II                                   |

## **SECTION 15: Regulatory information**

|                               |                                                                                                                |
|-------------------------------|----------------------------------------------------------------------------------------------------------------|
| <b>US federal regulations</b> | This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. |
|-------------------------------|----------------------------------------------------------------------------------------------------------------|

### **TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not applicable.

### **CERCLA Hazardous Substance List (40 CFR 302.4)**

Not applicable.

### **SARA 304 Emergency release notification**

Not regulated.

### **OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)**

Not applicable.

## **Superfund Amendments and Reauthorization Act of 1986 (SARA)**

### **SARA 302 Extremely hazardous substance**

Not listed.

### **SARA 311/312 Hazardous**

See Section 2 for more information.

### **SARA 313 (TRI reporting)**

Not regulated.

## **Other federal regulations**

### **Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

### **Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

### **Safe Drinking Water Act**

Not regulated.

**FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace**

Not listed.

**US state regulations**

**US. Massachusetts RTK - Substance List**

Listed, Hydrogen Peroxide (CAS #7722-84-1).

**US. New Jersey Worker and Community Right-to-Know Act**

Listed, Hydrogen Peroxide (CAS #7722-84-1).

**US. Pennsylvania Worker and Community Right-to-Know Law**

Listed, Hydrogen Peroxide (CAS #7722-84-1).

**California Proposition 65**

Not listed.

**SECTION 16: Other information**

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**SECTION 17: 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.