# SAFETY DATA SHEET

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

### 1.1 Product identifiers

| | |
|---|---|
| Product name | Hydrogen Peroxide 3 % |
| CAS number | See section 2 |
| Synonyms | Not applicable |

### 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<br>12501 Pauls Valley Road<br>Austin, Texas 78737<br>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)**

| | |
|---|---|
| Serious eye damage/eye irritation | Category 2 |
| Oxidizing liquid | Category 3 |

### 2.2 GHS Label elements, including precautionary statements

Pictogram

Signal Word Warning

Hazard statements

May intensify fire; oxidizer
Causes serious eye irritation

Precautionary statements

Keep away from heat
Keep/store away from clothing/combustible materials
Take any precaution to avoid mixing with combustibles
Wear protective gloves/eye protection/face protection
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: get medical advice/attention
In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish.
Dispose of contents/container to industrial combustion plant.

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

Harmful to aquatic life - acute
Causes mild skin irritation

## SECTION 3: Composition/information on ingredients

### 3.1 Components

| Chemical name | Common name and synonyms | CAS number | Concentration |
|---|---|---|---|
| Deionized water | Water | 7732-18-5 | 97% |
| Hydrogen peroxide | - | 7722-84-1 | 3% |

## SECTION 4: First aid measures

### 4.1 Description of first-aid measures

**General advice**

**If inhaled** If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

**In case of skin contact** Wash with plenty of soap and water

**In case of eye contact** Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

**If swallowed** Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

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

Symptoms and effects are not known to date.

### 4.3 Indication of any immediate medical attention and special treatment needed
None

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media** Water spray, alcohol resistant foam, BC-powder, Carbon dioxide (CO2)

**Unsuitable extinguishing media** Water jet

### 5.2 Specific hazards arising from the substance or mixture
Oxidizing property

### 5.3 Special protective equipment and precautions for firefighters
In case of fire and/or explosion do not breathe fumes. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water resources. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

### 5.4 Further information

**Flash Point** No information available

**Autoignition Temperature** No information available

**Explosion limits**

**Upper** No information available
**Lower** No information available

**Sensitivity to Mechanical Impact** No information available
**Sensitivity to Static Discharge** No information available

**NFPA**

| Health | Flammability | Instability | Physical hazards |
|---|---|---|---|
| - | - | - | - |

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures
For non-emergency personnel: Remove persons to safety. For emergency responders: wear breathing apparatus if exposed to vapors/dust/aerosols/gases

### 6.2 Environmental precautions
Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

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

To contain and clean a spill: cover drains, collect spillage with absorbent material such as diatomite or sand. Place in appropriate containers for disposal. Ventilated affected area.

### 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

**Precautions on safe handling**

To prevent fire and dust generation: Use local and general ventilation. Use only in well-ventilated areas. Take any precaution to avoid mixing with combustibles. Keep away from organic absorbing material, pulp/paper

**Hygiene measures**

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

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

**Storage conditions**

Keep reduction valves and fittings free from oil and grease

**Incompatibilities**

Keep/store away from clothing/combustible materials. Take any precaution to avoid mixing with combustibles.

## 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 | TLV | 1 ppm |

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

| Component | Type | Value | |
|---|---|---|---|
| Hydrogen Peroxide | TWA | 1 ppm | 10h |
| | TWA | 1.4 mg/m3 | 10h |

## 8.2 Exposure controls

**Appropriate engineering controls**
General ventilation is adequate

**Personal protective equipment**

**Eye/face protection**
Wear eye/face protection

**Skin protection**
Wear suitable gloves. Chemical protection gloves are suitable, which are tested

**Body Protection**
Take recovery periods for skin regeneration. Preventative skin protection (barrier crear

**Respiratory protection**
In case of inadequate ventilation wear respiratory protection.

**Control of environmental exposure**
Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

# 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 | No information available |
| Boiling Point/Range | >100 degrees C |
| Evaporation Rate | No information available |
| Flammability (solid) | No information available |
| Flammability or explosive limit | No information available |
| Vapor Pressure | < 23.7 mmHg at 25 °C |
| Vapor Density | This information is not available |
| Density | No information available |
| Solubility | Miscible in any proportion |
| Partition coefficient; n-octanol/water | This information is not available |
| Autoignition Temp | Not determined |
| Decomposition Temp | No information available |
| Viscosity | No information available |
| Molecular Formula | No information available |
| Molecular Weight | No information available |

| | |
|---|---|
| VOC Content(%) | No information available |
| Oxidizing properties | No information available |

### 9.2 Other safety information
No information available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity
Concerning incompatibility: see sections 10.4 and 10.5. The mixture contains reactive substance(s). Oxidizing property

### 10.2 Chemical stability
See below section 10.4

### 10.3 Possibility of hazardous reactions
No known hazardous reactions

### 10.4 Conditions to avoid
Avoid sources of ignition. Keep reduction valves and fittings free from oil and grease.

### 10.5 Incompatible materials
Combustible materials.

### 10.6 Hazardous decomposition products
Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known.

## 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 | 1,026 mg/kg | - | 11 mg/u 4h |

**Skin corrosion/irritation**
Shall not be classified as corrosive/irritant to skin.

**Serious eye damage/eye irritation**
Causes serious eye irritation

**Respiratory or skin sensitization**
Shall not be classified as a respiratory or skin sensitizer

**Germ cell mutagenicity**

Shall not be classified as germ cell mutagenic.

**Carcinogenicity**

| Component | CAS | IARC | NTP | ACGIH | OSHA | Mexico |
|---|---|---|---|---|---|---|
| Hydrogen peroxide | 7722-84-1 | 3 | Not listed | Not listed | Not listed | Not listed |

3: Not classifiable as carcinogenic to humans.

**Specific target organ toxicity - single exposure**
None known

**Specific target organ toxicity - repeated exposure**
None known

**Reproductive toxicity**
Not classified

**Chronic effects**
No information available

### 11.2 Additional Information
No information available

## SECTION 12: Ecological information

### 12.1 Toxicity

| Product | | Species | Test Results |
|---|---|---|---|
| Hydrogen peroxide | LC50 | Fish | 16.4 mg/L - 96h |
| | EC50 | Algae | 1.38 mg/L - 72h |

### 12.2 Persistence and degradability
Data are not available

### 12.3 Bio accumulative potential
Data are not available

### 12.4 Mobility in soil
Data are not available

### 12.5 Results of PBT and vPvB assessment
According to the results of its assessment, this substance is not a PBT or a vPvB.

### 12.6 Endocrine disrupting properties
Does not contain an endocrine disruptor in a concentration of > 0.1%

### 12.7 Other adverse effects
Data are not 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)** Not regulated

**IMDG** Not regulated

**IATA** Not regulated

## SECTION 15: Regulatory information

**US federal regulations** This product is not 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 regulated.

**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**

Not listed

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

Not listed

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

Not listed

**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.