

## SAFETY DATA SHEET

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

#### 1.1 Product identifiers

Product name            Hydrogen Peroxide 5 %  
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  
                                  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)

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	95%
Hydrogen peroxide	-	7722-84-1	5%

**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 (CO<sub>2</sub>)

**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. Ventilate 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/m <sup>3</sup>

##### 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/m <sup>3</sup>	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 cream)

#### 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.