

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
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 | 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. 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 ³ |

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 ³ | 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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Revision 0

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.