

SAFETY DATA SHEET

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

1.1 Product identifiers

| | |
|--------------|------------------------|
| Product name | Hydrogen Peroxide 15 % |
| 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)

| | |
|--|------------|
| Oxidizing liquids | Category 3 |
| Acute toxicity | Category 4 |
| Serious eye damage | Category 1 |
| Specific target organ toxicity - single exposure | Category 3 |
| 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

Response

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

Storage

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
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 known

SECTION 3: Composition/information on ingredients

3.1 Components

| Chemical name | Common name and synonyms | CAS number | Concentration |
|-------------------|--------------------------|------------|---------------|
| Hydrogen Peroxide | - | 7722-84-1 | 15% |
| Water | - | 7732-18-5 | 85% |

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice

| | |
|--------------------------------|--|
| If inhaled | If unconscious, place in recovery position and seek medical advice |
| In case of skin contact | Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty. |
| In case of eye contact | Small amounts splashed into eyes can cause irreversible tissue damage and blindness. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Continue rinsing eyes during transport to hospital. |
| If swallowed | Clean mouth with water and drink afterwards plenty of water. Keep respiratory tract clear. Do NOT induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital. |

4.2 Most important symptoms and effects, both acute and delayed

No information available

4.3 Indication of any immediate medical attention and special treatment needed

Note to physician: treat symptomatically

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Alcohol-resistant foam, Carbon dioxide, dry chemical

Unsuitable extinguishing media High volume water jet

5.2 Specific hazards arising from the substance or mixture

Hazardous combustion products: Acetic acid. Do not allow run-off from fire fighting to enter drains or water courses.

5.3 Special protective equipment and precautions for firefighters

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments.

5.4 Further information

Flash Point Does not flash

Autoignition Temperature No data available

Explosion limits

Upper No data available

Lower No data available

Sensitivity to Mechanical Impact No data available
Sensitivity to Static Discharge No data available
NFPA

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment

6.2 Environmental precautions

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and materials for containment and cleaning up

Neutralize with chalk, alkali solution or ammonia. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/ national regulations (see section 13)

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

Avoid formation of aerosol. Do not breathe vapors/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water in accordance with local and national regulations.

Hygiene measures

No information available

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations/ working materials must comply with the technological safety standards.

Incompatibilities

No information available

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 |

8.2 Exposure controls

Appropriate engineering controls

No information available

Personal protective equipment

Eye/face protection

Eye wash bottle with pure water. Tightly fitting safety goggles. Wear face-shield and protective suit for abnormal processing problems.

Skin protection

Impervious clothing.

Body Protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection

No information available

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 data available |
| pH | 2 - 4 @ 20 °C (68 °F) |
| Melting Point/Range | -27 °C (-17 °F) |
| Boiling Point/Range | 106 °C (223 °F) |
| Evaporation Rate | No data available |
| Flammability (solid) | No data available |
| Flammability or explosive limit | No data available |
| Vapor Pressure | 17.4 - 25 mmHg |
| Vapor Density | No data available |
| Density | 1.12 @ 20 - 25 °C (68 - 77 °F) |
| Solubility | No data available |
| Partition coefficient; n-octanol/water | No data available |
| Autoignition Temp | No data available |
| Decomposition Temp | No data available |
| Viscosity | 1.25 mPa.s |
| Molecular Formula | Not applicable |
| Molecular Weight | Not applicable |
| VOC Content(%) | Not applicable |
| Oxidizing properties | Not applicable |

9.2 Other safety information

Not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

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

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

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

10.6 Hazardous decomposition products

No information available

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 | IARC | NTP | ACGIH | OSHA | Mexico |
|-------------------|------------|------------|------------|------------|------------|
| Hydrogen Peroxide | Not listed | Not listed | Not listed | Not listed | Not listed |

Specific target organ toxicity - single exposure

Respiratory system

Specific target organ toxicity - repeated exposure

None known

Reproductive toxicity

No information available

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 | Water Flea (<i>D. pulex</i>) | 2.4 mg/l | 48h |
| | EC50 | Microtox (<i>S. costatum</i>) | 1.38 mg/l | 72h |

12.2 Persistence and degradability

No data available

12.3 Bio accumulative potential

No data available

12.4 Mobility in soil

No data 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 |
| Shipping Name | Hydrogen peroxide, aqueous solutions |
| Hazard Class | 5.1 |
| Packing Group | III |

IMDG

| | |
|---------------|--------------------------------------|
| UN-no. | UN2014 |
| Shipping Name | Hydrogen peroxide, aqueous solutions |
| Hazard Class | 5.1 |
| Packing Group | III |

IATA

| | |
|---------------|--------------------------------------|
| UN-no. | UN2014 |
| Shipping Name | Hydrogen peroxide, aqueous solutions |
| Hazard Class | 5.1 |
| Packing Group | III |

SECTION 15: Regulatory information

US federal regulations 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 listed

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed

SARA 304 Emergency release notification

Hydrogen Peroxide RQ: 1000

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 full list of SARA hazards.

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

US state regulations

US. Massachusetts RTK - Substance List

Listed

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

Not listed

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

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.