

## Hydrogen Peroxide 30%

Revision Date: 2024-12-12

### SECTION 1: Identification

#### 1.1 Product Identifier

Trade Name	<b>Hydrogen Peroxide 30%</b>
Product Number	RL-HYD02

#### 1.2 Relevant Identified Uses

Relevant Identified Uses	Water Treatment
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#### 1.3 Details of the Supplier of the Safety Data Sheet

Car Wash Technologies  
322 19th St SW  
Forest Lake, MN 55025  
United States

Telephone: (651) 272-5459  
Telefax: (651) 633-1712  
e-mail: mark@fuhrentinc.com

#### 1.4 Emergency Telephone Number

(651) 272-5459.

### SECTION 2: Hazard(s) Identification

#### 2.1 Classification of the Substance

Classification Acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Hazard Statement	Hazard Class	Category
H314	skin corrosion/irritation	1B
H318	serious eye damage/eye irritation	1
H335	specific target organ toxicity - single exposure (respiratory tract irritation)	3
H272	oxidizing liquid	2

Employ good industrial hygiene practice

#### 2.2 Label Elements



Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Signal Word **DANGER**

#### - Hazard Statements

H272	May intensify fire; oxidizer.
H314	Causes severe skin burns and eye damage.
H335	May cause respiratory irritation.

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### - Precautionary Statements

P210	Keep away from heat.
P220	Keep/store away from clothing/combustible materials.
P221	Take any precaution to avoid mixing with combustibles.
P260	Do not breathe dusts or mists.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/eye protection/face protection.
P301+P330+P331	If swallowed: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	If inhaled: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a poison center/doctor.
P321	Specific treatment (see on this label).
P363	Wash contaminated clothing before reuse.
P370+P378	In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container to industrial combustion plant.

### 2.3 Other Hazards

There Is No Additional Information.

## SECTION 3: Composition/Information on Ingredients

### 3.1 Substances

Not applicable

### 3.2 Mixtures

Description of the Mixture

Name of Substance	CAS No	Wt%
Water	7732-18-5	50 - < 75
Hydrogen peroxide	7722-84-1	25 - < 50

## SECTION 4: First-Aid Measures

### 4.1 Description of First-Aid Measures

#### General Notes

Do not leave affected person unattended. Remove victim out of the danger area. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### Following Inhalation

Provide fresh air. If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician.

#### Following Skin Contact

Wash with plenty of soap and water.

#### Following Eye Contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart.

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### Following Ingestion

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.

### SECTION 5: Fire-Fighting Measures

#### 5.1 Extinguishing Media

Suitable Extinguishing Media

Water spray, Alcohol resistant foam, BC-powder, Carbon dioxide (CO<sub>2</sub>)

#### 5.2 Special Hazards Arising from the Substance or Mixture

Contact with metals may emit flammable hydrogen gas. Oxidizing property.

#### 5.3 Fire-Fighting Measures

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 courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

### 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

Do not empty into drains, surface water or soil. If the product has entered a water course, sewer or soil, inform the responsible authority.

#### 6.3 Methods and Material for Containment and Cleaning Up

Advice on How to Contain a Spill

Prevent entry to sewers and public waters. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Advice on How to Clean Up a Spill

Collect spillage. Ensure good ventilation and exhaustion. Place in appropriate containers for disposal.

#### 6.4 Reference to Other Sections

Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

### SECTION 7: Handling and Storage

#### 7.1 Precautions for Safe Handling

Measures to Prevent Fire as well as Aerosol and Dust Generation

Use local and general ventilation. Use only in well-ventilated areas. Take any precaution to avoid mixing with combustibles.

- Handling of Incompatible Substances or Mixtures

- Keep Away From

Organic absorbing material, Pulp/paper

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### Advice on General Occupational Hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating 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

### Managing of associated risks

#### - Flammability hazards

Keep reduction valves/valves and fittings free from oil and grease.

#### - Incompatible substances or mixtures

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

#### - Specific designs for storage rooms or vessels

Do not keep the container sealed.

### Packaging Compatibilities

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.

## SECTION 8: Exposure Controls/Personal Protection

### 8.1 Control Parameters

Occupational Exposure Limit Values (Workplace Exposure Limits)											
Country	Name of Agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m <sup>3</sup> ]	STEL [ppm]	STEL [mg/m <sup>3</sup> ]	Ceiling-C [ppm]	Ceiling-C [mg/m <sup>3</sup> ]	Notation	Source
US	hydrogen peroxide	7722-84-1	PEL (CA)	1	1.4						Cal/OSH A PEL
US	hydrogen peroxide	7722-84-1	REL	1 (10 h)	1.4 (10 h)						NIOSH REL
US	hydrogen peroxide	7722-84-1	TLV®	1							ACGIH® 2024
US	hydrogen peroxide	7722-84-1	PEL	1	1.4						29 CFR 1910.1000

#### Notation

Ceiling-C ceiling value is a limit value above which exposure should not occur

STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

### 8.2 Exposure Controls

#### Appropriate Engineering Controls

General ventilation.

#### Individual Protection Measures (Personal Protective Equipment)

##### Eye/Face Protection

Wear eye/face protection.

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### Skin Protection

#### - Hand Protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

#### - Body Protection

Wear suitable protective clothing.

#### - Other Protection Measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

### Respiratory Protection

In case of inadequate ventilation wear respiratory protection.

### Environmental Exposure Controls

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

#### Appearance

Physical State	Liquid
Color	Colorless
Foam Color	None
Fragrance	None

#### Other safety parameters

pH (value)	5
Melting Point/Freezing Point	-28 °C
Initial boiling point and boiling range	>212 °F
Flash Point	No Data Available
Evaporation rate	No Data Available
Flammability (solid, gas)	this material is combustible, but will not ignite readily
Vapor pressure	No Data Available
Density	1.111 g/ml

#### Solubility(ies)

- Water solubility	Miscible in Any Proportion
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### Viscosity

- Kinematic viscosity	No Data Available
Oxidizing Properties	oxidizer
<b>9.2 Other Information</b>	There Is No Additional Information

## SECTION 10: Stability and Reactivity

### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s). Oxidizing property.

### 10.2 Chemical Stability

See below "Conditions to avoid".

### 10.3 Possibility of Hazardous Reactions

No known hazardous reactions.

### 10.4 Conditions to Avoid

There are no specific conditions known which have to be avoided.

Hints to prevent fire or explosion

Keep reduction valves/valves and fittings free from oil and grease.

### 10.5 Incompatible Materials

Bases, Strong Oxidizers, Reducing Agents, Metals, Combustible materials

### 10.6 Hazardous Decomposition Products

Hazardous combustion products: see section 5.

## SECTION 11: Toxicological Information

### 11.1 Information on Toxicological Effects

Test data are not available for the complete mixture.

#### Classification Acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

#### Acute Toxicity

Shall not be classified as acutely toxic.

#### Skin Corrosion/Irritation

Causes severe skin burns and eye damage.

#### Serious eye damage/eye irritation

Causes serious eye damage.

#### 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

Shall not be classified as carcinogenic.

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### IARC Monographs on the Evaluation of Carcinogenic Risks to Humans

Name of Substance	CAS No	Classification	Number
Hydrogen peroxide	7722-84-1	3	

#### Legend

3 Not classifiable as to carcinogenicity in humans

#### Reproductive Toxicity

Shall not be classified as a reproductive toxicant.

#### Specific Target Organ Toxicity - Single Exposure

May cause respiratory irritation.

#### Specific Target Organ Toxicity - Repeated Exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

#### Aspiration Hazard

Shall not be classified as presenting an aspiration hazard.

## SECTION 12: Ecological Information

### 12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

### 12.2 Persistence and Degradability

No Data Available.

### 12.3 Bioaccumulative Potential

No Data Available.

### 12.4 Mobility in Soil

No Data Available.

### 12.5 Other Adverse Effects

No Data Available.

## SECTION 13: Disposal Considerations

### 13.1 Waste Treatment Methods

#### Sewage Disposal-Relevant Information

Do not empty into drains. Avoid release to the environment.

#### Waste Treatment of Containers/Packages

Only packagings which are approved (e.g. acc. to DOT) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

#### Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

## SECTION 14: Transport Information

### 14.1 UN Number, Proper Shipping Name, Class and Packing Group

#### Domestic Ground Non-Bulk Shipments

UN2014, HYDROGEN PEROXIDE, AQUEOUS SOLUTIONS, 5.1, (8), II

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### 14.2 Special precautions for user

There Is No Additional Information.

### Transport of dangerous goods by road or rail (49 CFR US DOT) - Additional information

not assigned

## SECTION 15: Regulatory Information

### 15.1 Safety, Health and Environmental Regulations Specific for the Product in Question

#### National Regulations (United States)

##### Toxic Substance Control Act (TSCA)

all ingredients are listed

##### Superfund Amendment and Reauthorization Act (SARA TITLE III )

- The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)

#### The List of Extremely Hazardous Substances and Their Threshold Planning Quantities

Name of Substance	CAS No	Notes	Reportable quantity (pounds)	Threshold planning quantity (pounds)
Hydrogen peroxide	7722-84-1	f	1,000	1000

#### Legend

f Chemical on the original list that does not meet toxicity criteria but because of its acute lethality, high production volume and known risk is considered chemical of concern ("Other chemicals"). (November 17, 1986, and February 15, 1990.)

- Specific Toxic Chemical Listings (EPCRA Section 313)

none of the ingredients are listed

#### Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

- List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)

none of the ingredients are listed

#### Clean Air Act

none of the ingredients are listed

#### Right to Know Hazardous Substance List

- Cleaning Product Right to Know Act Substance List (CA-RTK)

none of the ingredients are listed

- Toxic or Hazardous Substance List (MA-TURA)

none of the ingredients are listed

- Hazardous Substances List (MN-ERTK)

Name of Substance	CAS No	References	Remarks
Hydrogen peroxide	7722-84-1	A	
Hydrogen peroxide	7722-84-1	O	

#### Legend

A American Conference of Governmental Industrial Hygienists (ACGIH), "Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices for 1992-93", available from ACGIH

O Occupational Safety and Health Administration (OSHA), Safety and Health Standards, Code of Federal Regulations, title 29, part 1910, subpart Z, "Toxic and Hazardous Substances, 1990." General information: Minnesota Department of Labor and Industry, Occupational Safety and Health Division



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### - Hazardous Substance List (NJ-RTK)

Name of Substance	CAS No	Remarks	Classifications
Hydrogen peroxide	7722-84-1		CO MU R3

#### Legend

CO Corrosive  
MU Mutagenic  
R3 Reactive - Third Degree

### - Hazardous Substance List (Chapter 323) (PA-RTK)

Name acc. to inventory	CAS No	Classification
HYDROGEN PEROXIDE (H2O2)	7722-84-1	

### - Hazardous Substance List (RI-RTK)

Name of Substance	CAS No	References
Hydrogen peroxide	7722-84-1	T, F

#### Legend

F Flammability (NFPA®)  
T Toxicity (ACGIH®)

### California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

none of the ingredients are listed

### Industry or Sector Specific Available Guidance(s)

#### NPCA-HMIS® III

Hazardous Materials Identification System. American Coatings Association.

Category	Rating
Chronic	/
Health	3
Flammability	0
Physical hazard	2
Personal protection	-

#### NFPA® 704

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).

Category	Degree of hazard
Flammability	1
Health	3
Instability	0

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Category	Degree of hazard
Special hazard	OX

### National inventories

Country	Inventory	Status
US	TSCA	all ingredients are listed (ACTIVE)

#### Legend

TSCA      Toxic Substance Control Act

### SECTION 16: Other Information, Including Date of Preparation or Last Revision

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.

#### Classification Procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### Disclaimer

This information is based on the present state of our knowledge and does not constitute an assurance of product properties nor establishes contract legal rights. All data about health and safety are only for information. They should therefore not be construed as specifications. This SDS has been compiled and is solely intended for this product.