



# HI-VALLEY CHEMICAL

LABORATORY PRODUCTS

1134 W. 850 N.      CENTERVILLE, UT 84014  
(801) 295-9591      Fax (801) 295-9448  
www.hvchemical.com

# SAFETY DATA SHEET

Hi Valley Chemical

## Hydrogen Peroxide 35%

### 1 PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier:** Hydrogen Peroxide 35%  
**SDS Number:** R-022  
**Product Code:** 512021-PT, 512021-QT, 512021-1, 512021-5, 512021-15, 512021-30, 512021-55  
**Revision Date:** 10/28/2015  
**Version:** 1.0  
**Chemical Formula:** H2O2  
**Supplier Details:** High Valley Products, Inc.  
 1134 West 850 North  
 Centerville, Utah 84014  
**Emergency:** PERS: 800-633-8253  
**Phone:** 801-295-9591  
**Email:** sales@hvchemical.com  
**Web:** www.hvchemical.com

### 2 HAZARDS IDENTIFICATION

#### Classification of the substance or mixture

##### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):

- Physical, Oxidizing Liquids, 1
- Health, Serious Eye Damage/Eye Irritation, 1
- Health, Skin corrosion/irritation, 1 A
- Environmental, Hazards to the aquatic environment - Chronic, 3
- Health, Acute toxicity, 4 Oral
- Environmental, Hazards to the aquatic environment - Acute, 3

#### GHS Label elements, including precautionary statements

GHS Signal Word: **DANGER**

##### GHS Hazard Pictograms:



##### GHS Hazard Statements:

- H271 - May cause fire or explosion; strong oxidizer
- H318 - Causes serious eye damage
- H314 - Causes severe skin burns and eye damage
- H412 - Harmful to aquatic life with long lasting effects
- H302 - Harmful if swallowed
- H402 - Harmful to aquatic life

##### GHS Precautionary Statements:

- P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking
- P220 - Keep/Store away from clothing/combustible materials.
- P221 - Take any precaution to avoid mixing with combustibles.
- P264 - Wash \_ thoroughly after handling.
- P270 - Do not eat, drink or smoke when using this product.
- P273 - Avoid release to the environment.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P283 - Wear fire/ flame resistant/retardant clothing.  
P301+312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303+361+353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.  
P306+360 - IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.  
P310 - Immediately call a POISON CENTER or doctor/physician.  
P321 - Specific treatment (see \_ on this label).  
P363 - Wash contaminated clothing before reuse.  
P370+378 - In case of fire: Use \_ for extinction.  
P371+380+375 - In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.  
P405 - Store locked up.  
P501 - Dispose of contents/container to \_

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

#### Ingredients:

Cas#	%	Chemical Name
7722-84-1	35%	Hydrogen peroxide

### 4 FIRST AID MEASURES

**Inhalation:** If inhaled, move person to fresh air. If not breathing, give artificial respiration. Consult a physician.

**Skin Contact:** Promptly flush skin with water until all chemical is removed. Remove contaminated clothing and wash before reuse. Consult a physician.

**Eye Contact:** Immediately flush eyes with large amounts of water for at least 15 minutes, lifting eyelids occasionally to facilitate irrigation. Consult a physician.

**Ingestion:** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### 5 FIRE FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media  
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture  
Oxygen  
Nature of decomposition products not known.

Advice for firefighters  
Wear self-contained breathing apparatus for firefighting if necessary.

Further information  
Use water spray to cool unopened containers.

### 6 ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures:

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

#### Environmental precautions:

Do not let product enter drains.

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

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

<b>Handling Precautions:</b>	Avoid breathing vapors or mist. Avoid contact with eyes, skin, or clothing. Keep away from sources of ignition. No smoking.
<b>Storage Requirements:</b>	Keep container tightly closed. Store in cool/dry/well ventilated area.

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Personal Protective Equipment:</b>	Hydrogen peroxide (7722-84-1) [35%]  Personal protective equipment  Eye/face protection: Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).  Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.  Full contact: Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested: Dermatril (KCL 740 / Aldrich Z677272, Size M)  Splash contact: Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested: Dermatril (KCL 740 / Aldrich Z677272, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.  Body Protection: Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.  Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi- purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).  Control of environmental exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
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Hydrogen peroxide (7722-84-1) [35%]

Components with workplace control parameters

TWA	1 ppm	USA. ACGIH Threshold Limit Values (TLV)
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Eye, skin, & Upper Respiratory Tract irritation  
Confirmed animal carcinogen with unknown relevance to humans

TWA	1 ppm 1.4 mg/m3	USA. NIOSH Recommended Exposure Limits
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TWA	1 ppm 1.4 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
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The value in mg/m3 is approximate.

TWA	1 ppm 1.4 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
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**9****PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	Colorless.
<b>Physical State:</b>	Liquid
<b>Odor:</b>	No data available
<b>Odor Threshold:</b>	No data available
<b>Solubility:</b>	Complete
<b>Spec Grav./Density:</b>	1.13
<b>Viscosity:</b>	No data available
<b>Boiling Point:</b>	126 °C (259 °F) at 1,013 hPa (760 mmHg)
<b>Freezing/Melting Pt.:</b>	-40 °C (-40 °F)
<b>Flash Point:</b>	No data available
<b>Partition Coefficient:</b>	No data available
<b>Vapor Pressure:</b>	31.1 hPa (23.3 mmHg) at 30 °C (86 °F)
<b>Vapor Density:</b>	1.17 - (Air = 1.0)
<b>pH:</b>	No data available
<b>Evap. Rate:</b>	No data available
<b>Auto-Ignition Temp:</b>	No data available
<b>Decomp Temp:</b>	No data available
<b>UFL/LFL:</b>	No data available

**10****STABILITY AND REACTIVITY**

<b>Reactivity:</b>	No data available
<b>Chemical Stability:</b>	Stable under normal conditions.
<b>Conditions to Avoid:</b>	No data available
<b>Materials to Avoid:</b>	Brass, Copper, Powdered metals, Iron, Iron and iron salts.
<b>Hazardous Decomposition:</b>	No data available

**11****TOXICOLOGICAL INFORMATION**

Hydrogen peroxide (7722-84-1) [35%]

Information on toxicological effects

Acute toxicity: no data available

Inhalation: no data available

Dermal: no data available

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: no data available

Respiratory or skin sensitisation: no data available

Germ cell mutagenicity: no data available

Carcinogenicity:

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Hydrogen peroxide)

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Specific target organ toxicity - single exposure: no data available

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

Additional Information:

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Liver - Irregularities - Based on Human Evidence

Stomach - Irregularities - Based on Human Evidence (Hydrogen peroxide)

## 12 ECOLOGICAL INFORMATION

Hydrogen peroxide (7722-84-1) [35%]

Information on ecological effects

Toxicity: no data available

Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life.

## 13 DISPOSAL CONSIDERATIONS

Hydrogen peroxide (7722-84-1) [35%]

Waste treatment methods

Product: Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging: Dispose of as unused product.

## 14 TRANSPORT INFORMATION

UN2014, Hydrogen peroxide, aqueous solutions with not less than 20 percent but not more than 40 percent hydrogen peroxide (stabilized as necessary), 5.1,(8), PGII

## 15 REGULATORY INFORMATION

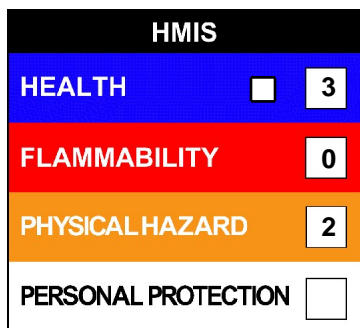
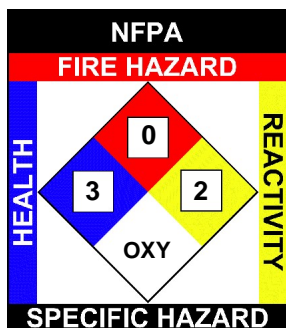
Component (CAS#) [%] - CODES

Regulatory CODE Descriptions

EHS302 = Extremely Hazardous Substance  
MASS = MA Massachusetts Hazardous Substances List  
NJHS = NJ Right-to-Know Hazardous Substances  
OSHAPSM = OSHA Chemicals Requiring process safety management  
OSHAWAC = OSHA workplace Air Contaminants  
PA = PA Right-To-Know List of Hazardous Substances  
TSCA = Toxic Substances Control Act  
TXAIR = TX Air Contaminants with Health Effects Screening Level

**16 OTHER INFORMATION**

NFPA: Health = 3, Fire = 0, Reactivity = 2, Specific Hazard = OXY  
HMIS III: Health = 3, Fire = 0, Physical Hazard = 2



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**Author: HVC**

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