



HI-VALLEY CHEMICAL

LABORATORY PRODUCTS

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Buffer pH 4 Solution

1 PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Buffer pH 4 Solution
Synonyms: Buffer solution, ph 4.01 +/- 0.01 @ 25 deg c, reference standard

SDS Number: R-135
Revision Date: 4/19/2019

Supplier Details: High Valley Products, Inc.
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Centerville, Utah 84014

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2 HAZARDS IDENTIFICATION

Classification of Substance

GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):
No GHS Classifications Indicated

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: **NONE**

GHS Hazard Pictograms:

No GHS pictograms indicated for this product

GHS Hazard Statements:

No GHS hazards statements indicated

GHS Precautionary Statements:

No GHS precautionary statements indicated

3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Ingredients		
CAS#	%	Chemical Name
7732-18-5	98.9671%	water
877-24-7	1.02%	Potassium Biphthalate
99-76-3	0.01%	Methylparaben
94-13-3	0.0025%	Propylparaben
915-67-3	0.0004%	Amaranth

4 FIRST AID MEASURES

Inhalation: If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention.

Skin Contact: Promptly flush skin with soap water until all chemical is removed.
Get medical attention if irritation develops.

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

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

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FIRE FIGHTING MEASURES

Flammability: This product is not flammable.

Extinguishing media
Suitable extinguishing media
No data available.

Special hazards arising from the substance or mixture
No data available

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

Further information
No data

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ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Wear respiratory protection. Avoid breathing vapors, 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.

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HANDLING AND STORAGE

Handling Precautions: Use personal protective equipment. Always ensure adequate ventilation. Wash hands thoroughly after handling.

Storage Requirements: Keep container tightly closed. Store in cool/dry area.

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EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal Protective Equipment: Eye Protection: Tightly fitting safety goggles or safety glasses should be sufficient. Have eye-wash stations available where eye contact can occur.

Skin Protection: Chemical resistant apron. Gloves.

Respiratory Protection: Vapor respirator. Be sure to use an approved/certified respirator or equivalent.

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PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Red Liquid	Odor:	No data available
Odor Threshold:	No data available	Molecular Formula:	No data available
Specific Gravity or Density:	No data available	Solubility:	soluble
Viscosity:	No data available	Softening Point:	No data available
Saturated Vapor Concentration:	No data available	Percent Volatile:	No data available
Boiling Point:	No data available	Heat Value:	No data available
Flammability:	No data available	Freezing or Melting Point:	No data available
Partition Coefficient:	No data available	Flash Point:	No data available
Vapor Pressure:	The highest known value is 2.3 kPa (Water)	Vapor Density:	No data available
Evaporation Rate:	No data available	Volatile organic	No data available

Molecular weight: No data available
Decompression Temperature: No data available

compound:
Bulk Density: No data available
Upper Flammability Limit and Lower Flammability Limit: No data available

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STABILITY AND REACTIVITY

Reactivity: No data available
Chemical Stability: Stable under recommended storage conditions.
Conditions to Avoid Identification: Stable at normal conditions

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TOXICOLOGICAL INFORMATION

Water cas#:(7732-18-5) [98.9671%]

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: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

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

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: ZC0110000

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

1,2-Benzenedicarboxylic acid, monopotassium salt cas#:(877-24-7) [1.02%]

Information on toxicological effects

Acute toxicity:

Oral LD50 LD50 Oral - rat - > 3,200 mg/kg

Inhalation LC50 no data available

Dermal LD50

Other information on acute toxicity

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: no data available

Respiratory or skin sensitization: no data available

Germ cell mutagenicity: no data available

Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

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

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

Teratogenicity: no data available

Specific target organ toxicity - single exposure (Globally Harmonized System):
no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System):
no data available

Aspiration hazard: no data available

Potential health effects: Inhalation May be harmful if inhaled. May cause respiratory tract irritation. Ingestion May be harmful if swallowed. Skin May be harmful if absorbed through skin. May cause skin irritation. Eyes May cause eye irritation.

Signs and Symptoms of Exposure: Nausea, Vomiting, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Synergistic effects: no data available

Additional Information:

RTECS: CZ4326000

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ECOLOGICAL INFORMATION

Water cas#:(7732-18-5) [98.9671%]

Information on ecological effects

Toxicity: no data available

Persistence and degradability: not applicable

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: no data available

1,2-Benzenedicarboxylic acid, monopotassium salt cas#:(877-24-7) [1.02%]

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

PBT and vPvB assessment: no data available

Other adverse effects: no data available

13**DISPOSAL CONSIDERATIONS**

Dispose of in accordance with local regulations.

14**TRANSPORT INFORMATION**

Non D.O.T regulated

15**REGULATORY INFORMATION**

Component (CAS#) [%] - CODES

Water (7732-18-5) [98.9671%] TSCA

1,2-Benzenedicarboxylic acid, monopotassium salt (877-24-7) [1.02%] TSCA

Benzoic acid, 4-hydroxy-, methyl ester (99-76-3) [0.01%] TSCA

Benzoic acid, 4-hydroxy-, propyl ester (94-13-3) [0.0025%] TSCA

2,7-Naphthalenedisulfonic acid, 3-hydroxy-4-[(4-sulfo-1-naphthalenyl)azo]-, trisodium salt (915-67-3) [0.0004%] TSCA

Regulatory CODE Descriptions

TSCA = Toxic Substances Control Act

16**OTHER INFORMATION**

Disclaimer:

Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained herein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s).

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