



**Be Right™**

# SAFETY DATA SHEET

Issue Date 06-Apr-2021

Revision Date 15-Oct-2021

Version 4.2

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## Section 1: PRODUCT AND COMPANY IDENTIFICATION

### Product identifier

**Product Code(s)** LZW9467.97  
**Product Name** pH Standard Solution, 7

### Other means of identification

**Safety data sheet number** M03896

### Recommended use of the chemical and restrictions on use

**Recommended Use** Laboratory reagent. Buffer.  
**Restrictions on use** For Laboratory Use Only.  
**Uses advised against** Consumer use

### Details of the supplier of the safety data sheet

#### **Supplier Address**

Hexis Cientifica Ltda CNPJ: 53.276.010 / 00001-10 Av. Antonieta Piva Barranqueiros, 385 - Industrial District - Jundiai - SP -  
Phone: 11 4589-2672

#### **Manufacturer Address**

Hach Company, P.O. Box 389, Loveland, CO 80539, USA, +1(970) 669-3050

### Emergency telephone number

#### **Argentina**

Argentina: +(54)-1159839431

#### **Ecuador**

Ecuador: +593-01 800 000 906 (Access Code: 334846)

#### **Costa Rica**

Costa Rica - National Poison Center: +506-2223-1028

#### **United States of America**

+1(303) 623-5716 - 24 Hour Service

## Section 2: HAZARDS IDENTIFICATION

### GHS Classification

#### **General Hazards**

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

#### **Label elements**

### Hazard statements

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

### Other Hazards Known

#### **General Hazards**

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

**Other hazards which do not result in classification**

No information available

- 2E-06 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
- 2E-06 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- 2E-06 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)
- 2E-06 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
- 2E-06 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

**Section 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**Substance**

Not applicable

**Mixture**

Pure substance/mixture

Mixture

Chemical Name  
Chemical Family

Not applicable  
Mixture

CAS No

Not applicable

Chemical nature

Aqueous solution of inorganic salts.

Chemical name	CAS No	Percent Range
Water	7732-18-5	90 - 100%

**Section 4: FIRST AID MEASURES**

**Description of necessary first aid measures**

General advice

No hazards which require special first aid measures. Use first aid treatment according to the nature of the injury.

Inhalation

Remove to fresh air.

Skin contact

Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.

Eye contact

Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

Ingestion

Clean mouth with water and drink afterwards plenty of water.

**For emergency responders**

Self-protection of the first aider

No information available.

**Most important symptoms/effects, acute and delayed**

Symptoms

No information available.

**Indication of immediate medical attention and special treatment needed, if necessary**

Note to physicians

Treat symptomatically.

**Section 5: FIRE FIGHTING MEASURES**

**Suitable Extinguishing Media**

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Product itself does not burn.

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**Unsuitable Extinguishing Media** No information available

**Specific hazards arising from the chemical**

**Specific hazards arising from the chemical** No information available.

**Flammable properties**

Not classified as flammable according to GHS criteria Substance does not burn During a fire, irritating and highly toxic gases may be generated by thermal decomposition.

**Explosive properties**

Not classified according to GHS criteria.

**Specific/special fire-fighting measures**

**Specific/special fire-fighting measures** No information available.

**Special protective equipment and precautions for fire-fighters**

**Special protective equipment for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## Section 6: ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Ensure adequate ventilation.

**For emergency responders** Use personal protective equipment as required.

**Environmental precautions**

**Environmental precautions** See Section 12 for additional ecological information.

**Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up**

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Take up mechanically, placing in appropriate containers for disposal.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

**Reference to other sections**

See section 8 for more information.  
See section 13 for more information.

## Section 7: HANDLING AND STORAGE

**Preventive measures for safe handling**

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice.

**Precautions for safe handling**

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible materials**

Strong oxidizing agents, strong acids, and strong bases.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines**

**Legend** See section 16 for terms and abbreviations

**Appropriate engineering controls**  
**Engineering Controls**

Showers  
 Eyewash stations  
 Ventilation systems. Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Individual protection measures, such as personal protective equipment**

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. Ensure adequate ventilation.

**Hand Protection** Wear suitable gloves. Barrier creams may help to protect the exposed areas of skin. Gloves must be inspected prior to use. The selected protective gloves have to satisfy the specifications of EU Directive 2016/425 and the standard EN 374 derived from it. Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374-1:2016.

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Skin and body protection** No special protective equipment required. Avoid contact with eyes, skin and clothing.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

**Environmental exposure controls** Local authorities should be advised if significant spillages cannot be contained. Do not allow into any sewer, on the ground or into any body of water.

**Thermal hazards** None under normal processing.

**Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

**Information on basic physical and chemical properties**

<b>Physical state</b>	Liquid	<b>Color</b>	colorless
<b>Appearance</b>	clear	<b>Odor threshold</b>	Not applicable
<b>Odor</b>	Odorless		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>Molecular weight</b>	Not applicable	
<b>pH</b>	7	@ 20 °C
<b>Melting point/freezing point</b>	~ 0 °C / 32 °F	
<b>Boiling point / boiling range</b>	~ 100 °C / 212 °F	
<b>Evaporation rate</b>	1 (water = 1)	
<b>Vapor pressure</b>	17.477 mm Hg / 2.33 kPa at 20 °C / 68 °F	
<b>Relative vapor density</b>	0.62	
<b>Specific gravity (water = 1 / air = 1)</b>	1	

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Partition Coefficient (n-octanol/water) No data available  
Soil Organic Carbon-Water Partition Coefficient No data available  
Autoignition temperature No data available  
Decomposition temperature No data available  
Dynamic viscosity ~ 1 cP (mPa s) at 20 °C / 68 °F  
Kinematic viscosity ~ 1 cSt (mm<sup>2</sup>/s) at 20 °C / 68 °F  
Solubility(ies)

#### Water solubility

Water solubility classification	Water solubility	Water Solubility Temperature
Completely soluble	> 10000 mg/L	25 °C / 77 °F

#### Solubility in other solvents

Chemical Name	Solubility classification	Solubility	Solubility Temperature
Acid	Soluble	> 1000 mg/L	25 °C / 77 °F

#### Other information

##### Metal Corrosivity

Steel Corrosion Rate No data available  
Aluminum Corrosion Rate No data available

##### Volatile Organic Compounds (VOC) Content

See ingredients information below

Chemical name	CAS No	Volatile organic compounds (VOC) content	CAA (Clean Air Act)
Water	7732-18-5	No data available	-

##### Explosive properties

Upper explosion limit Not applicable  
Lower explosion limit Not applicable

##### Flammable properties

Flash point No data available

##### Flammability Limit in Air

Upper flammability limit: No data available  
Lower flammability limit: No data available

##### Oxidizing properties

No data available.

##### Bulk density

Not applicable

## Section 10: STABILITY AND REACTIVITY

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**Reactivity**

Not applicable.

**Chemical stability**

**Stability** Stable under normal conditions.

**Explosion data**

**Sensitivity to Mechanical Impact** None

**Sensitivity to Static Discharge** None.

**Possibility of hazardous reactions**

**Possibility of Hazardous Reactions** None under normal processing.

**Hazardous polymerization**

None under normal processing.

**Conditions to avoid**

**Conditions to avoid** None known based on information supplied.

**Incompatible materials**

**Incompatible materials** Strong oxidizing agents, strong acids, and strong bases.

**Hazardous decomposition products**

None known based on information supplied.

## Section 11: TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

**Product Information**

**Inhalation** No known effect based on information supplied.

**Eye contact** No known effect based on information supplied.

**Skin contact** No known effect based on information supplied.

**Ingestion** No known effect based on information supplied.

**Symptoms** No information available.

**Acute toxicity**

Based on available data, the classification criteria are not met

**Product Acute Toxicity Data**

No data available.

**Ingredient Acute Toxicity Data**

No data available.

**Unknown Acute Toxicity**

2E-06% of the mixture consists of ingredient(s) of unknown toxicity.

**Acute Toxicity Estimations (ATE)**

The following values are calculated based on chapter 3.1 of the GHS document

<b>Oral LD50</b>	No information available mg/kg
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<b>Dermal LD50</b>	No information available
<b>Mist</b>	No information available
<b>Vapor</b>	No information available
<b>Gas</b>	No information available

**Skin corrosion/irritation**

Based on available data, the classification criteria are not met.

**Product Skin Corrosion/Irritation Data**

No data available.

**Ingredient Skin Corrosion/Irritation Data**

No data available.

**Serious eye damage/irritation**

Based on available data, the classification criteria are not met.

**Product Serious Eye Damage/Eye Irritation Data**

No data available.

**Ingredient Eye Damage/Eye Irritation Data**

No data available.

**Respiratory or skin sensitization**

Based on available data, the classification criteria are not met.

**Product Sensitization Data**

No data available.

**Ingredient Sensitization Data**

Test data reported below.

**STOT - single exposure**

Based on available data, the classification criteria are not met.

**Product Specific Target Organ Toxicity Single Exposure Data**

No data available.

**Ingredient Specific Target Organ Toxicity Single Exposure Data**

No data available.

**STOT - repeated exposure**

Based on available data, the classification criteria are not met.

**Product Specific Target Organ Toxicity Repeat Dose Data**

No data available.

**Ingredient Specific Target Organ Toxicity Repeat Exposure Data**

No data available.

**Carcinogenicity**

Based on available data, the classification criteria are not met.

**Product Carcinogenicity Data**

No data available.

**Ingredient Carcinogenicity Data**

No data available.

<b>Chemical name</b>	<b>CAS No</b>	<b>ACGIH</b>	<b>IARC</b>	<b>NTP</b>	<b>OSHA</b>
Water	7732-18-5	-	-	-	-

**Legend**

<b>ACGIH (American Conference of Governmental Industrial Hygienists)</b>	A2 - Suspected Human Carcinogen A1 - Known Human Carcinogen
<b>IARC (International Agency for Research on Cancer)</b>	Group 1 - Carcinogenic to Humans
<b>NTP (National Toxicology Program)</b>	Known - Known Carcinogen
<b>OSHA (Occupational Safety and Health Administration of the US Department of Labor)</b>	X - Present

**Germ cell mutagenicity**

Based on available data, the classification criteria are not met.

**Product Germ Cell Mutagenicity invitro Data**

No data available.

**Ingredient Germ Cell Mutagenicity invitro Data**

No data available.

**Product Germ Cell Mutagenicity invivo Data**

No data available.

**Ingredient Germ Cell Mutagenicity invivo Data**

No data available.

**Reproductive toxicity**

Based on available data, the classification criteria are not met.

**Product Reproductive Toxicity Data**

No data available.

**Ingredient Reproductive Toxicity Data**

No data available.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**Section 12: ECOLOGICAL INFORMATION**

**Ecotoxicity**

Based on available data, the classification criteria are not met.

**Unknown aquatic toxicity**

0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment.

**Product Ecological Data**

**Aquatic Acute Toxicity**

No data available.

**Aquatic Chronic Toxicity**

No data available.

**Ingredient Ecological Data**

**Aquatic Acute Toxicity**

Test data reported below.

**Aquatic Chronic Toxicity**

No data available.



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**Persistence and degradability**

**Product Biodegradability Data**  
No data available.

**Product Bioaccumulation Data**  
No data available.

**Partition Coefficient (n-octanol/water)** No data available

**Mobility**

**Soil Organic Carbon-Water Partition Coefficient** No data available

**Other adverse effects**

No information available

**Section 13: DISPOSAL CONSIDERATIONS**

**Disposal methods**

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

**Section 14: TRANSPORT INFORMATION**

**DOT** Not regulated

**Emergency Response Guide Number** Not applicable

**IMDG** Not regulated

**IATA** Not regulated

**ADR** Not regulated

**Additional information**

**Section 15: REGULATORY INFORMATION**

**International Inventories**

<b>TSCA</b>	Complies
<b>DSL/NDSL</b>	Complies
<b>EINECS/ELINCS</b>	Complies
<b>ENCS</b>	Complies
<b>IECSC</b>	Complies
<b>KECL - Existing substances</b>	Complies
<b>PICCS</b>	Complies
<b>TCSI</b>	Complies
<b>AICS</b>	Complies
<b>NZIoC</b>	Complies

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

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**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**TCSI** - Taiwan Chemical Substances Inventory  
**AICS** - Australian Inventory of Chemical Substances  
**NZIoC** - New Zealand Inventory of Chemicals

### Country Regulations

#### **Brazil**

Federal Decree No. 2.657, July 3, 1998  
Standard ABNT NBR 14725-3  
Ordinance No. 229, May 24, 2011 - Changes to Regulatory Standard No. 26  
Standard ABNT NBR 14725-4  
Resolution no. 420/2004 - ANTT  
Resolution no. 5.232 / 2016 - ANTT  
NR 15 Ministry of Labor and Employment  
Ordinance no. 1274 / 2003  
Federal Decree 3.665 / 2000  
Law no. 12.305 / 10  
Law no. 10.357 / 2001  
Ordinance no. 240/2019  
Ordinance no. 577/2019

Exempted from Ordinance No 240/2019

#### **Argentina**

SRT 3359/2015  
Resolution 801/2015  
Law of Health and Safety and Work (Law 19,587)  
Decree 351/79  
Regulatory Law 19587

#### **Columbia**

Law 253, 1996: Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and their Disposal.  
Resolution 2400/1979: Ministry of Labour and Social Security, ACGIH Exposure Limits.  
Decision 602, Andean Regulation for the Control of chemical substances used in the illegal manufacture of narcotic drugs and psychotropic substances.  
Law 29/1992: Montreal Protocol on Substances that Deplete the Ozone Layer and its Amendments.  
Law 55/1993: Recommendation No. 177 on the International Work Conference on Safety in the Use of Chemical Products at Work.  
Law 30/1990: Vienna Convention for the Protection of the Ozone Layer.  
Law 55/1993: Convention No. 170 on the General Conference of the ILO.

#### **Uruguay**

Law 16.157: Approval of the Montreal Protocol on Substances that Deplete the Ozone Layer.  
Law 17.283: Regarding environmental protection and management of hazardous wastes.  
Presidential Decree 346/11: Implementation of GHS for all manufactured or distributed products.  
Presidential Decree 519/984: Regulates the activities relating to the use of radioactive materials and ionizing radiation throughout the country.

#### **Ecuador**

Law No. 37 - Environmental Management Act  
NTE INEN 2266:2013 - Requirements for Transport, Storage and Handling of Hazardous Materials  
Unified Text of Secondary Legislation of the Environment Ministry: Book VI

## **Section 16: OTHER INFORMATION**

### **Key or legend to abbreviations and acronyms used in the safety data sheet**

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*NIOSH IDLH* *Immediately Dangerous to Life or Health*  
*ACGIH* *ACGIH (American Conference of Governmental Industrial Hygienists)*  
*NDF* *no data*

**Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Ceiling Limit Value	MAC	Maximum Allowable Concentration
X	Listed	Vacated	These values have no official status. The only binding levels of contaminants are those listed in the final OSHA PEL. These lists are for reference purposes only. Please note that some reference state regulations of these "liberated" exposure limits in their state regulations.
SKN*	Skin designation	SKN+	Skin sensitization
RSP+	Respiratory sensitization	**	Hazard Designation
C	Carcinogen	R	Reproductive toxicant
M	mutagen		

**NIOSH (RTECS) Number** None reported

**Key literature references and sources for data**

See Section 11: TOXICOLOGICAL INFORMATION  
See Section 12: ECOLOGICAL INFORMATION

**Prepared By** Hach Product Compliance Department

**Issue Date** 06-Apr-2021

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**Revision Note** None

**Restrictions on use** For Laboratory Use Only.

**This material safety data sheet has been prepared according to Brazilian legislation and ABNT NBR 14725:2009**

**Disclaimer**

**USER RESPONSIBILITY:** Each user should read and understand this information and incorporate it in individual site safety programs in accordance with applicable hazard communication standards and regulations.

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**End of Safety Data Sheet**