

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product Identifier

Product Name pH 12.46 Buffer  
 Product Number(s) 00654-12, 00653-13, 00653-14  
 This SDS applies to pH 12.46 buffers with Lot # starting with CC.  
 Pure Substance/mixture Mixture

### Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Use as laboratory reagent  
 Uses advised against No information available

### Manufacturer/Supplier:

Traceable® Products  
 12554 Old Galveston Rd. Suite B230  
 Webster, TX 77598 USA  
 Tel: 281-482-1714

### Distributor:

Cole-Parmer™  
 North America  
 625 East Bunker Court  
 Vernon Hills, IL  
 60061 USA  
 Tel: 1-800-323-4340

E-mail address info@coleparmer.com

Made In USA

### Emergency Telephone

888-358-4717  
 8:00 am – 6:00 pm CST

## 2. HAZARDS IDENTIFICATION

### Classification

The product is not classified as hazardous according to the Globally Harmonized System (GHS).

### Label elements

This product does not have a classification according to the GHS regulation.

**Hazard pictograms:** Not regulated.

**Signal word:** Not regulated.

**Hazard statements:** Not regulated.

**Precautionary Statements** - Not regulated.



### Hazards not otherwise classified (HNOC)

No information available

### Other Information

No information available

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No	EC No.	Weight %	Trade Secret
Water	7732-18-5	-	>99 %	*
 Eye Dam. 1, H318  Skin Irrit. 2, H315; STOT SE 3, H335	1305-62-0		<1%	*

#### 4. FIRST AID MEASURES

##### First Aid Measures

**After inhalation:** Supply fresh air; consult doctor in case of complaints.

**After skin contact:**

Rinse with warm water.

If skin irritation is experienced, consult a doctor.

**After eye contact:**

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

**After swallowing:**

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

**Most important symptoms and effects, both acute and delayed:**

Gastric or intestinal disorders when ingested.

Slight irritant effect on eyes.

Slight irritant effect on skin and mucous membranes.

**Indication of any immediate medical attention and special treatment needed:**

No relevant information available.

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

Most important symptoms/effects                      No information available

**Indication of any immediate medical attention and special treatment needed**

Notes to Physician

Treat symptomatically

#### 5. FIRE-FIGHTING MEASURES

##### Suitable Extinguishing Media

The product is not flammable. Use fire fighting measures that suit the environment.

##### Unsuitable Extinguishing Media

No information available

##### Specific Hazards Arising from the Chemical

No information available

##### Explosion Data

Sensitivity to Mechanical Impact - None

Sensitivity to Static Discharge - None

##### Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### 6. ACCIDENTAL RELEASE MEASURES

##### Personal Precautions, Protective Equipment and Emergency Procedures

Ensure adequate ventilation.

For large spills, wear protective clothing.

##### Environmental Precautions

No special measures required.

##### Method and Material for Containment and Cleaning Up

Wipe up small spills with paper towel and discard.

For larger spills, add sawdust, chalk or other inert binding material, then sweep up and discard.

Send for recovery or disposal in suitable receptacles.

##### Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Avoid splashes or spray in enclosed areas.  
Avoid contact with the eyes and skin.  
Handle with care.

### Information about protection against explosions and fires:

No special measures required.

### Conditions for Safe Storage, Including any Incompatibilities

#### **Requirements to be met by storerooms and receptacles:**

Store in cool, dry conditions in well sealed receptacles.

**Information about storage in one common storage facility:** Store away from foodstuffs.

**Specific end use(s)** No relevant information available.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

**Components with limit values that require monitoring at the workplace:**

#### **1305-62-0 Calcium dihydroxide**

PEL (USA)	Long-term value: 15* 5** mg/m <sup>3</sup> *total dust **respirable fraction
REL (USA)	Long-term value: 5 mg/m <sup>3</sup>
TLV (USA)	Long-term value: 5 mg/m <sup>3</sup>
EL (Canada)	Long-term value: 5 mg/m <sup>3</sup>
EV (Canada)	Long-term value: 5 mg/m <sup>3</sup>
LMPE (Mexico)	Long-term value: 5 mg/m <sup>3</sup>

### Appropriate Engineering Controls

Engineering Measures	Showers Eyewash stations Ventilation systems
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### Exposure controls

#### **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.  
Avoid contact with the eyes and skin.

**Engineering controls:** No relevant information available.

**Breathing equipment:** Not required under normal conditions of use.

#### **Protection of hands:**



Protective gloves

#### **Material of gloves**

Nitrile rubber, NBR  
Butyl rubber, BR  
Neoprene gloves  
Natural rubber, NR

#### **Eye protection:**



Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear.

**Body protection:** Protection may be required for spills.

**Limitation and supervision of exposure into the environment** No special requirements.

**Risk management measures** No special requirements.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties.

Physical State	Liquid
Appearance	Clear
Odor	None
Odor Threshold	No information available
pH Range	10.96-13.96

<u>Property</u>	<u>Values</u>	<u>Remarks * Method</u>
Melting point/freezing point	No information available	
Boiling Point/Range	~ 100 °C / 212 °F	
Flash Point (High in °C)	N/A	
Evaporation Rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit:	No information available	
Lower flammability limit:	No information available	
Vapor pressure	No information available	
Vapor Density	No information available	
Specific Gravity	No information available	
Water Solubility	soluble	
Solubility in other solvents	No information available	
Partition coefficient	No information available	
Autoignition Temperature		
Decomposition Temperature	No information available	
Kinematic Viscosity	No information available	
Dynamic Viscosity	No information available	
Explosive Properties	No information available	
Oxidizing Properties	No information available	

### Other Information

Softening Point	No information available
Molecular Weight	No information available
VOC Content (%)	No information available
Density	No information available
Bulk Density	No information available

## 10. STABILITY AND REACTIVITY

### Reactivity

No information available

### Chemical Stability

Stable under normal temperatures and pressures.

### Possibility of Hazardous Reactions

Exothermic reaction with acids.

### Conditions to Avoid

Avoid acids.

### Incompatible Materials

No information available

### Hazardous Decomposition Products

No dangerous decomposition products known.

**11. TOXICOLOGICAL INFORMATION****Information on toxicological effects**

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

**LD/LC50 values that are relevant for classification:** None.

**Primary irritant effect**

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

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

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

**IARC (International Agency for Research on Cancer)**

None of the ingredients are listed.

**NTP (National Toxicology Program)**

None of the ingredients are listed.

**OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients are listed

**Probable route(s) of exposure**

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

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

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

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

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

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

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

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

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

**STOT – single exposure** Based on available data, the classification criteria are not met.

**STOT – repeated exposure** Based on available data, the classification criteria are not met.

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

**12. ECOLOGICAL INFORMATION****Toxicity****Aquatic toxicity**

No relevant information available.

**Persistence and Degradability**

No relevant information available.

**Bioaccumulation/Accumulation**

No relevant information available.

**Mobility in soil**

No relevant information available.

**Other adverse effects**

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

**Other adverse effects** No relevant information available.

**13. DISPOSAL CONSIDERATIONS****Waste Treatment Methods**

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

**Contaminated Packaging** Improper disposal or reuse of this container may be dangerous and illegal.

**14. TRANSPORT INFORMATION**

DOT	Not regulated
TDG	Not regulated
MEX	Not regulated
ICAO	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated
RID	Not regulated
ADR	Not regulated
ADN	Not regulated

**15. REGULATORY INFORMATION****International Inventories**

USINV/TSCA	All ingredients are listed.
CANINV	All ingredients are listed.
EINECS/ELINCS	Complies
ENCS	Does not comply
IECSC	Complies
KECL	Complies
PICCS	Complies

USINV/TSCA – United States Toxic Substances Control Act Section 8(b) Inventory

CANINV/DSL/NDSL – Canadian Domestic Substances List/Non-Domestic Substance List

EINECS/ELINCS – European Inventory of Existing Commercial Chemical Substance / EU List of Notified Chemical Substances

ENCS – Japanese Existing and New Chemical Substances

IECSC – Chinese Inventory of Existing Chemical Substances

KECL – Korean Existing and Evaluated Chemical Substances

PICCS – Philippines Inventory of Chemicals and Chemical Substances

**U.S. Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40n of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazardous Categorization**

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

**U.S. State Regulations****California Proposition 65**

None of the ingredients are listed.

**State Right-to-Know**

Massachusetts Right-to-Know Act – Substance List	Not regulated
New Jersey Worker and Community Right-to-Know Act	Not regulated
Pennsylvania Right-to-Know Act – Hazardous Substance	Not regulated
Rhode Island Right-to-Know Act	Not regulated

**U.S. EPA Label Information**

No information available

**16. OTHER INFORMATION**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Last revision** May 15, 2026

**Abbreviations and acronyms:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bio-accumulable, Toxic

vPvB: very Persistent and very Bioaccumulative

OSHA: Occupational Safety & Health Administration

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3