

Revision Date: 19-June-2018
Revision 1

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

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

Distributor:

E-mail address

Made In

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 %	*
Calcium dihydroxide	1305-62-0		<1%	*
 Eye Dam. 1, H318				
 Skin Irrit. 2, H315; STOT SE 3, H335				

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

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/NDL – 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 40 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 June 19, 2018

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