

SAFETY DATA SHEET

Revision Date 18-May-2015

WAI1 - AGHS - OSHA

Revision Number 1

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

Product Identifier	
Product Name	pH 4.01 Buffer
Product Number(s)	00654-00, 05942-21, 05942-22, 05942-24, 05942-25, 35653-01
Pure substance/mixture	Mixture
Relevant identified uses of the sub	stance or mixture and uses advised against
Recommended Use	Use as laboratory reagent
Uses advised against	No Information available
<u>Manufacturer/Supplier</u>	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

OSHA Regulatory Status

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

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

Label Elements

Emergency Overview

The product contains no substances which at their given concentration, are considered to be hazardous to health

Appearance Light red

Physical State Liquid

Odor Odorless

Safety data sheet available on request

Precautionary Statements

Do not handle until all safety information has been read and understood.

Hazards not otherwise classified (HNOC)

No information available

Other Information

No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %	Trade Secret
Water	7732-18-5	90 - 100%	*
Potassium Hydrogen Phthalate	877-24-7	0 - 10%	*
Potassium Hydroxide	1310-58-3	0 - 10%	*
Amaranth Red No. 27	915-67-3	0 - 10%	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

First aid measures

General Advice	Use first aid treatment according to the nature of the injury. Get medical attention immediately if symptoms occur. Show this safety data sheet to the doctor in attendance.
Eye Contact	Rinse thoroughly with plenty of water, also under the eyelids. Obtain medical attention.
Skin Contact	Wash off immediately with soap and plenty of water for at least 15 minutes while removing all contaminated clothing and shoes. If skin reactions occur, contact a physician.
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, obtain medical attention.

Ingestion	Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting. Call a physician or Poison Control Center immediately.	
Protection of First-aiders	Use personal protective equipment. See Section 8 for more detail. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.	
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

Use extinguishing measures that are appropriate to local circumstances and the surrounding 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

Personal Precautions	Use personal protective equipment. Refer to Section 8. Evacuate personnel to safe areas.
Environmental Precautions	Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in
	low areas.

Methods and Material for Containment and Cleaning Up

Methods for Cleaning Up Soak up with inert absorbent material. Pick up and transfer to properly labeled containers	Methods for Containment	Prevent further leakage or spillage if safe to do so.
	Methods for Cleaning Up	Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Handling	To avoid risks to human health and the environment, comply with the instructions for use Wear personal protective equipment Avoid breathing dust/fume/gas/mist/vapours/spray Ensure adequate ventilation, especially in confined areas	
Conditions for Safe Storage, Including any Incompatibilities		

Storage

Keep container tightly closed in a dry and well-ventilated place

EN

Store at room temperature in the original container Keep away from direct sunlight

Incompatible Products

No information available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Potassium Hydroxide 1310-58-3	Ceiling: 2 mg/m ³	(Vacated) Ceiling: 2 mg/m ³	Ceiling: 2 mg/m ³

Appropriate engineering controls

Engineering Measures

Showers Eyewash stations Ventilation systems

Individual protection measures, such as personal protective equipment

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Eye/face Protection	Wear chemical splash goggles. If splashes are likely to occur, wear:. Face-shield.
Skin and Body Protection	Wear protective gloves/clothing.
Respiratory Protection	None required under normal usage. In case of inadequate ventilation wear respiratory protection.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Information on basic physical and	chemical properties	
Physical State	Liquid	
Appearance	Light red	
Odor	Odorless	
Odor Threshold	No information available	
pH Range	No information available	
Property	Values	Remarks • Method
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 Molecular Weight VOC Content(%) Density Bulk Density No information available No information available No information available No Information available No information available

10. STABILITY AND REACTIVITY

Reactivity

No Information available

Chemical Stability

Stable under normal conditions

Possibility of Hazardous Reactions

None under normal processing

Conditions to Avoid

Extremes of temperature and direct sunlight

Incompatible Materials

No information available

Hazardous Decomposition Products

Thermal decomposition can lead to release of irritating gases and vapors

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation	No information available
Eye Contact	No information available
Skin Contact	No information available
Ingestion	No information available

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Water	> 90 mL/kg (Rat)	-	-
7732-18-5			
Potassium Hydrogen Phthalate	3200 mg/kg (Rat)	-	-
877-24-7			
Potassium Hydroxide	284 mg/kg (Rat)	-	-
1310-58-3			

Information on Toxicological Effects

Symptoms

No information available

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

Sensitization	No information available
Mutagenic Effects	No information available
Carcinogenicity	No information available.
Reproductive Effects	No information available
STOT - single exposure	No information available

STOT - repeated exposure No information available

Aspiration hazard No information available

Numerical measures of toxicity - Product Information

12. ECOLOGICAL INFORMATION

Ecotoxicity

Component	Freshwater Algae	Freshwater Fish	Water Flea
Potassium Hydroxide 1310-58-3	-	80 mg/L LC50 96 h	-

Persistence and Degradability

No information available

Bioaccumulation/Accumulation

No information available

Mobility

No information available.

Component	log Pow
Potassium Hydroxide	0.83
1310-58-3	

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS		
Waste treatment methods		
Waste Disposal Methods	Disposal should be in accordance with applicable regional, national and local laws and regulations.	

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

Component	CAWAST
Potassium Hydroxide	Toxic
1310-58-3	Corrosive

14. TRANSPORT INFORMATION

DOT	Not regulated
	iterregulated
TDG	Not regulated
MEX	Not regulated
ICAO	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated
<u>RID</u>	Not regulated

ADR	Not regulated

<u>ADN</u>

Not regulated

15. REGULATORY INFORMATION International Inventories USINV Complies CANINV Complies

	Complice
CANINV	Complies
EINECS/ELINCS	Complies
ENCS	Does not Comply
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

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

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

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/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

AICS - Australian Inventory of 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 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

Clean Water Act

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Potassium Hydroxide 1310-58-3	1000 lb	-	-	Х

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)

Component	Hazardous Substances RQs	CERCLA EHS RQs	RQ
Potassium Hydroxide	1000 lb	-	RQ 1000 lb final RQ
1310-58-3			RQ 454 kg final RQ

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

State Right-to-Know

Component	New Jersey	Massachusetts	Pennsylvania
Water	-	-	Х
7732-18-5			
Potassium Hydroxide	Х	Х	Х
1310-58-3			

U.S. EPA Label Information

No information available

16. OTHER INFORMATION

Prepared By	Thermo Fisher Scientific© Water and Lab Products 22 Alpha Road Chelmsford, MA 01824, USA 1-978-232-6000	
Prepared For	Cole-Parmer TM	
Issue Date	No information available	
Revision Date	18-May-2015	
Expiration Date	SDS is valid 3 years from the revision date. Contact info@coleparmer.com for the latest revision.	
Reason for revision	Update to CLP Format	

Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet