

SAFETY DATA SHEET (SDS)

This safety data sheet complies with the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008, (EU) No. 453/2010

WAI2 - EGHS - EUROPEAN Revision Date 18-May-2015 **Revision Number** 1

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE **COMPANY/UNDERTAKING**

1.1. Product Identifier

Product Name pH 12.46 Buffer

Product Number(s) 00654-12

Pure substance/mixture Mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Use as laboratory reagent

No Information available Uses advised against

1.3. Details of the supplier of the safety data sheet

Manufacturer/Supplier Cole-ParmerTM

North America 625 East Bunker Court Vernon Hills, IL 60061 USA

Tel: 1-800-323-4340

E-mail address info@coleparmer.com

USA Made in

1.4. Emergency telephone number 24 Hour Emergency Phone Number

CHEMTREC®

Within USA and Canada: 1-800-424-9300 Outside USA and Canada: 1-703-527-3887

(collect calls accepted)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification - Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation	Category 1 - (H314)
Serious eye damage/eye irritation	Category 1 - (H318)

Classification according to EU Directives 67/548/EEC or 1999/45/EC

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16.

Symbol(s)

C - Corrosive

R-code(s)

C;R35

2.2. Label elements

Product Identifier



Signal Word Danger

Hazard Statements

H314 - Causes severe skin burns and eye damage

EUH210 - Safety data sheet available on request

Precautionary Statements

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P321 - Specific treatment (see supplemental first aid instructions on this label)

P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

P280 - Wear eye protection/ face protection

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor/physician

P202 - Do not handle until all safety precautions have been read and understood

2.3. Other hazards

No information available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Component	Chemical Formula	EC-No.	CAS-No	Weight %	DSD Classification - 67/548/EEC	CLP Classification - Regulation (EC) No 1272/2008	REACH Reg. No
Water	No information available	EEC No. 231-791-2	7732-18-5	90 - 100%	-		No information available
Potassium Chloride	No information available	EEC No. 231-211-8	7447-40-7	0 - 10%	-		No information available
Sodium Hydroxide	No information available	EEC No. 215-185-5	1310-73-2	0 - 10%	C; R35	Skin Corr. 1A (H314)	No information available

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

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16.

Full text of H- and EUH-phrases: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General Advice Use first aid treatment according to the nature of the injury. For further assistance, contact

your local Poison Control Center. Show this safety data sheet to the doctor in attendance.

Eye Contact In case of eye contact, remove contact lens and rinse immediately with plenty of water, also

under the eyelids, for at least 15 minutes. Obtain medical attention.

Skin ContactWash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. If symptoms persist, call 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-aidersUse 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.

4.2. Most important symptoms and effects, both acute and delayed

Most important symptoms/effects No information available

4.3. Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media

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

Unsuitable Extinguishing Media

No information available

5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors.

5.3. Advice for firefighters

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal Precautions Use personal protective equipment. Evacuate personnel to safe areas.

6.2. Environmental precautions

Environmental Precautions Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in

low areas.

6.3. 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. Pick up and transfer to properly labeled containers.

Reference to Other Sections

Refer to protective measures listed in Sections 7 and 8

See Section 8 for information on appropriate personal protective equipment

See Section 12 for additional Ecological Information

See Section 13 for additional waste treatment information

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe 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.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Keep away from direct sunlight.

7.3. Specific end use(s)

pH 12.46 Buffer **Product Name** Revision Date 18-May-2015

Specific Use

Laboratory reagent

Risk Management Methods (RMM)

The information required is contained in this Safety Data Sheet.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Component	European Union	The United Kingdom	France	Spain	Germany
Sodium Hydroxide 1310-73-2	-	STEL: 2 mg/m ³ 15 min	TWA / VME: 2 mg/m ³ (8 heures).	STEL / VLA-EC: 2 mg/m³ (15 minutos).	-
Component	Italy	Portugal	The Netherlands	Finland	Denmark
Sodium Hydroxide 1310-73-2	-	Ceiling: 2 mg/m ³	-	STEL: 2 mg/m³ 15 minuutteina Ceiling: 2 mg/m³	Ceiling: 2 mg/m ³
Component	Austria	Switzerland	Poland	Norway	Ireland
Sodium Hydroxide 1310-73-2	MAK-KZW: 4 mg/m ³ 15 Minuten MAK-TMW: 2 mg/m ³ 8 Stunden	STEL: 2 mg/m ³ 15 Minuten TWA: 2 mg/m ³ 8 Stunden	STEL: 1 mg/m ³ 15 minutach TWA: 0.5 mg/m ³ 8 godzinach	Ceiling: 2 mg/m ³	STEL: 2 mg/m ³ 15 min

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration

(PNEC)

No information available

8.2. Exposure controls

Showers **Engineering Measures**

> Eyewash stations Ventilation systems

Personal protective equipment

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 No protective equipment is needed under normal use conditions. In case of inadequate

ventilation wear respiratory protection.

Environmental exposure controls No information available

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical State Liquid Clear **Appearance** Odor Odorless

Odor Threshold No information available

pH Range 10.96 - 13.96

Property Values Remarks • Method

Melting point/freezing point No information available **Boiling Point/Range** ~ 100 °C / 212 °F Flash Point (High in °C) No information available **Evaporation Rate** No information available Flammability (solid, gas) No information available Flammability Limit in Air

No information available **Upper flammability limit:**

Lower flammability limit:

Vapor pressure

Vapor Density

Specific Gravity

No information available
No information available
No information available

Water Solubility soluble

Solubility in other solvents

Partition coefficient

No information available
No information available

Autoignition Temperature

Decomposition TemperatureNo information availableKinematic ViscosityNo information availableDynamic viscosityNo information availableExplosive PropertiesNo information availableOxidizing PropertiesNo information available

9.2. Other information

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

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No information available

10.2. Chemical stability

Stable under normal conditions

Explosion Data

Sensitivity to Mechanical Impact None Sensitivity to Static Discharge None

10.3. Possibility of hazardous reactions

None under normal processing

10.4. Conditions to avoid

Extremes of temperature and direct sunlight

10.5. Incompatible materials

No information available

10.6. Hazardous decomposition products

Thermal decomposition can lead to release of irritating gases and vapors

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute Toxicity

Product Information

Product does not present an acute toxicity hazard based on known or supplied information.

InhalationNo information availableEye ContactNo information availableSkin ContactNo information availableIngestionNo information available

Unknown Acute Toxicity 0.43% of the mixture consists of ingredient(s) of unknown toxicity.

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Water	> 90 mL/kg (Rat)		
Potassium Chloride	= 2600 mg/kg (Rat)		
Sodium Hydroxide		= 1350 mg/kg (Rabbit)	

Skin Corrosion/Irritation No information available

Serious eye damage/eye irritation No information available

Sensitization No information available

Mutagenic Effects No information available

Carcinogenic effects 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

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

0.43% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Component	Freshwater Algae	Freshwater Fish	Water Flea
Potassium Chloride	2500: 72 h Desmodesmus subspicatus mg/L EC50	750 - 1020: 96 h Pimephales promelas mg/L LC50 static 1060: 96 h Lepomis macrochirus mg/L LC50 static	•
Sodium Hydroxide	-	45.4: 96 h Oncorhynchus mykiss mg/L LC50 static	-

12.2. Persistence and degradability

No information available

12.3. Bioaccumulative potential

No information available

12.4. Mobility in soil

No information available

12.5. Results of PBT and vPvB assessment

No information available

12.6. Other adverse effects

No information available

Endocrine Disruptor Information

No information available

SECTION 13: DISPOSAL CONSIDERATIONS

pH 12.46 Buffer **Product Name** Revision Date 18-May-2015

13.1. Waste treatment methods

Waste from Residues / Unused Disposal should be in accordance with applicable regional, national and local laws and

regulations. **Products**

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

SECTION 14: TRANSPORT INFORMATION

IMDG/IMO

14.1 UN-No	Not Regulated
14.2 Proper Shipping Name	Not Regulated
14.3 Hazard Class	Not Regulated
Subsidiary Hazard Class	Not Regulated
14.4 Packing Group	Not Regulated
14.5 Marine Pollutant	Not Applicable

14.6 Special Provisions

14.7 Transport in bulk according to No information available

Not Degulated

Annex II of MARPOL 73/78 and the

IBC Code

RID

14.1 UN-NO	Not Regulated
14.2 Proper Shipping Name	Not Regulated
14.3 Hazard Class	Not Regulated
14.4 Packing Group	Not Regulated
14.5 Environmental hazard	Not Applicable

14.6 Special Provisions None

ADR	
14.1 UN-No	Not Regulated
14.2 Proper Shipping Name	Not Regulated
14.3 Hazard Class	Not Regulated
14.4 Packing Group	Not Regulated
14.5 Environmental hazard	Not Applicable

14.6 Special Provisions None

ICAO	
14.1 UN-No	Not Regulated
14.2 Proper Shipping Name	Not Regulated
14.3 Hazard Class	Not Regulated
Subsidiary Hazard Class	Not Regulated
14.4 Packing Group	Not Regulated
14.5 Environmental hazard	Not Applicable
14.6 Special Provisions	None

14.6 Special Provisions

IATA

14.1 UN-No	Not Regulated
14.2 Proper Shipping Name	Not Regulated
14.3 Hazard Class	Not Regulated
14.4 Packing Group	Not Regulated
14.5 Environmental hazard	Not Applicable
14.6 Special Provisions	None

14.6 Special Provisions None

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

International Inventories

USINV Complies
CANINV Complies
EINECS/ELINCS Complies

ENCS Does not Comply

IECSCCompliesKECLCompliesPICCSCompliesAICSComplies

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

CANINY/ 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

15.2. Chemical safety assessment

A chemical safety assessment according to regulation (EC) No. 1907/2006 is not required

SECTION 16: OTHER INFORMATION

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

Full text of R-phrases referred to under sections 2 and 3

R35 - Causes severe burns

Legend - SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value * Skin designation

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revision.

Reason for revision Update to CLP Format

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

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