

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

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

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

1.1. 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

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

Recommended Use Use as laboratory reagent

Uses advised against No Information available

1.3. Details of the supplier of the safety data sheet

Manufacturer/Supplier Cole-Parmer™

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

Tel: 1-800-323-4340

E-mail address <u>info@coleparmer.com</u>

Made in USA

1.4. Emergency telephone number 888-358-4717

8:00 am - 6:00 pm CST

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification - Mixture

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

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

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)

Not dangerous goods

2.2. Label elements

Product Identifier Signal Word

None

EUH210 - Safety data sheet available on request

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 Hydrogen Phthalate	No information available	EEC No. 212-889-4	877-24-7	0 - 10%	-		No information available
Potassium Hydroxide	No information available	EEC No. 215-181-3	1310-58-3	0 - 10%	Xn; R22 C; R35	Acute Tox. 4 (H302) Skin Corr. 1A (H314)	No information available
Amaranth Red No. 27	No information available	EEC No. 213-022-2	915-67-3	0 - 10%	-		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 Contact Wash 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 PrecautionsUse personal protective equipment. Evacuate personnel to safe areas.

6.2. Environmental precautions

Environmental Precautions Beware of

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 UpSoak 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)

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
Potassium Hydroxide	-	STEL: 2 mg/m ³ 15 min	STEL / VLCT: 2	STEL / VLA-EC: 2	-
1310-58-3			mg/m³.	mg/m³ (15 minutos).	
Component	Italy	Portugal	The Netherlands	Finland	Denmark
Potassium Hydroxide 1310-58-3	-	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
Potassium Hydroxide 1310-58-3	MAK-TMW: 2 mg/m ³ 8 Stunden	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 No information available

(PNEC)

8.2. Exposure controls

Engineering Measures Showers

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 StateLiquidAppearanceLight redOdorOdorless

Odor Threshold No information available pH Range No information available

Property Values Remarks • Method

Melting point/freezing pointNo information availableBoiling Point/Range~ 100 °C / 212 °FFlash Point (High in °C)No information availableEvaporation RateNo information availableFlammability (solid, gas)No information available

Flammability Limit in Air

Upper flammability limit:
Lower flammability limit:
Vapor pressure
Vapor Density
Specific Gravity

No information available
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 Temperature
Kinematic Viscosity
No 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

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Water	> 90 mL/kg (Rat)		
Potassium Hydrogen Phthalate	3200 mg/kg (Rat)		
Potassium Hydroxide	284 mg/kg (Rat)		

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

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

12.2. Persistence and degradability

No information available

12.3. Bioaccumulative potential

No information available

Component	log Pow
Potassium Hydroxide	0.83

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

13.1. Waste treatment methods

Waste from Residues / Unused Products

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.

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
44 C. Cassiel Dravisions	None

14.6 Special Provisions None

14.7 Transport in bulk according to No information available

Annex II of MARPOL 73/78 and the

IBC Code

<u>RID</u>

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-NoNot Regulated14.2 Proper Shipping NameNot Regulated14.3 Hazard ClassNot Regulated

14.4 Packing GroupNot Regulated14.5 Environmental hazardNot Applicable

14.6 Special Provisions None

ICAO

14.1 UN-NoNot Regulated14.2 Proper Shipping NameNot Regulated14.3 Hazard ClassNot RegulatedSubsidiary Hazard ClassNot Regulated14.4 Packing GroupNot Regulated14.5 Environmental hazardNot Applicable

14.6 Special Provisions None

<u>IATA</u>

14.1 UN-NoNot Regulated14.2 Proper Shipping NameNot Regulated14.3 Hazard ClassNot Regulated14.4 Packing GroupNot Regulated14.5 Environmental hazardNot Applicable

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

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

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

No information available

Product Number(s) 00654-00, 05942-21, 05942-22, 05942-24,

Document No. 264586-001

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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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

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