

SAFETY DATA SHEET – COVER LETTER

REVISION DATE: 2017-05-09

Identification of the substance/mixture and of the company/undertaking

Product identifier

Product name: pH Calibration Kit
Article number: 55-0001

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

Identified uses: Laboratory use, calibration of pH meter

Details of the supplier of the safety data sheet

Company: Medicago AB
Danmark Berga 13
755 98 Uppsala
Telephone: +46 (0)18 56 11 80
Facsimile: +46 (0)18 56 11 88
E-mail address: info@medicago.se

Emergency telephone number

Emergency telephone number: Giftinformationscentralen 112

Hazards identification

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (EU-GHS/CLP)

Classified as: Skin Irritation (category 2), H315
Eye Irritation (category 2), H319

Label elements

Labelling according to Regulation (EC) No 1272/2008 (EU-GHS/CLP)



Signal word: Warning

Hazard statement(s):

H315 Causes skin irritation
H319 Causes serious eye irritation

Precautionary statement(s)

P280 Wear protective gloves/protective clothes/eye protection
P302+P352 IF ON SKIN: Wash with plenty of water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

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Complementary hazard information

No further information

Other hazards

No data available

Composition/information on ingredients

Component	Product number	MSDS number	Classification according to constitution (EC) no 1272/2008 (CLP)	Pages
Buffer Solution 4	39-0045	24-0391	Skin Irrit 2, H315	3-9
Buffer Solution 7	39-0046	24-0392	Not classified	10-15
Buffer Solution 9	39-0061	24-0393	Not classified	16-21

Other information

This information is based on the current state of knowledge.

Precaution and disclaimer: For laboratory use only; not for drug, household, or any other use

SAFETY DATA SHEET: 24-0391

according to Regulation (EG) no 1907/2006

Generic EU MSDS – No country specific data

REVISION DATE: 2017-05-09

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name: Buffer Solution pH 4

Article number: 39-0045

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

Identified uses: Laboratory solution, calibration of pH meter

1.3 Details of the supplier of the safety data sheet

Company: Medicago AB
Danmark Berga 13
755 98 Uppsala

Telephone: +46 (0)18 56 11 80

Facsimile: +46 (0)18 56 11 88

E-mail address: info@medicago.se

1.4 Emergency telephone number

Emergency telephone number: Giftinformationscentralen 112

2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (EU-GHS/CLP)

Classified as: Skin Irritation (category 2), H315

Eye Irritation (category 2), H319

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (EU-GHS/CLP)



Signal word: Warning

Hazard statement(s):

H315 Causes skin irritation

H319 Causes serious skin irritation

Precautionary statement(s):

P280 Wear protective gloves/protective clothing/eye protection

P302+P352 IF ON SKIN: Wash with plenty of water.

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

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Complementary hazard information
No further information

2.3 Other hazards

No data available

3. Composition/information on ingredients

3.2 Mixtures

Substance	CAS-no.	EC-no.	Index-no.	Weight %	Classification according to constitution (EG) no 1272/2008 (CLP)
Sodium Hydroxide	1310-73-2	215-185-5	011-002-00-6	1-2%	Skin Irrit 2, H315
Citric Acid	77-92-9	201-069-1	-	1-5%	Eye Irrit 2, H319

For the full text of the H-statement see section 16

4. First aid measures

4.1 Description of first aid measures

If swallowed	Rinse mouth with water; get medical attention
If inhaled	Move to fresh air, get medical attention if you feel unwell
In case of skin contact	Wash with plenty of water; remove contaminated clothes; get medical attention
In case of eye contact	Rinse with plenty of water for several minutes; remove contact lenses if present and easy to do; get medical attention
General advice	Get medical attention; show this safety data sheet to the doctor in attendance

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Use dry chemical powder
For large fire: Use water spray, fog or foam

5.2 Special hazards arising from the substance or mixture

No data available

5.3 Advice for fire fighters

Wear self-contained breathing apparatus for firefighting if necessary

5.4 Further information

No further information

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear lab coat, safety google, proper gloves and boots; ensure sufficient ventilation; wash hands after use

6.2 Environmental precautions

Do not let product enter drains

6.3 Methods and material for containment and cleaning up

Wipe with a suitable dry towel, keep in a suitable, closed and properly labelled container for disposal

6.4 Reference to other sections

For disposal: See section 13

7. Handling and storage

7.1 Precautions for safe handling

Wash hands after use; avoid contact with skin and eyes; ensure sufficient ventilation

7.2 Conditions for safe storage, including any incompatibilities

Store in original packaging in a cool, dry and well-ventilated place

7.3 Specific end use(s)

No data available

8. Exposure controls/personal protection

8.1 Control parameters

No data available

8.2 Exposure controls

Appropriate engineering controls

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels under recommended exposure levels; if user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limits

Personal protective equipment

Eye/face protection: Use safety googles

Skin protection: Wear suitable gloves; gloves must be inspected prior use

Body Protection: Wear lab coat or other impervious clothes

Respiratory protection: Use suitable dust respirator, if necessary

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	red solution
Odour	no data available
Odour threshold	no data available
pH	4 at 20°C
Melting point/ freezing point	no data available
Initial boiling point and boiling range	no data available
Flash point	no data available
Evaporation rate	no data available
Flammability (Solid, gas)	no data available
Upper/lower flammability or explosive limits	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	soluble
Partition coefficient: n-octanol/ water	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

9.2 Other information

No data available

10. Stability and Reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Basis, strong oxidizing agents, strong acids, reducing agents, organic substances

10.6 Hazardous decomposition products

No data available

11. Toxicological information

11.1 Information on toxicological effects

11.1.2 Mixtures

Acute toxicity

No data available

Skin corrosion/irritation

No data available

Serious eye damage/ eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

Specific target organ toxicity – single exposure

No data available

Specific target organ toxicity – repeated exposure

No data available

Aspiration hazard

No data available

Potential health effects

Skin	Causes skin irritation
Eye	Causes serious eye irritation

12. Ecological information

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

No data available

13. Disposal considerations

13.1 Waste treatment methods

Waste must be disposed of in accordance with federal, state and local environmental control regulations. Do not dump into any sewers, on the ground or in any body of water

Contaminated packaging: Dispose of as unused product

14. Transport information

14.1 UN-number

ADR-RID: - IMDG: - IATA: -

14.2 UN proper shipping name

ADR-RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

14.3 Transport hazard class(es)

ADR-RID: - IMDG: - IATA: -

14.4 Packaging group

ADR-RID: - IMDG: - IATA: -

14.5 Environmental hazards

ADR-RID: no

IMDG, water pollutant: no

IATA: no

14.6 Special precautions for user

No data available

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No data available

15. Regulatory information

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

No data available

15.2 Chemical safety assessment

No data available

16. Other information

This information is based on the current state of knowledge.

Precaution and disclaimer: For laboratory use only; not for drug, household, or any other use

Full text of the H-statement in section 3

H315	Causes skin irritation
H319	Causes serious eye irritation
Skin Irrit 2	Skin Irritation (category 2)
Eye Irrit 2	Eye Irritation (category 2)

SAFETY DATA SHEET: 24-0392

according to Regulation (EG) no 1907/2006
Generic EU MSDS – No country specific data
REVISION DATE: 2017-05-09

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name: Buffer Solution pH 7
Article number: 39-0046

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

Identified uses: Laboratory solution, calibration of pH meter

1.3 Details of the supplier of the safety data sheet

Company: Medicago AB
Danmark Berga 13
755 98 Uppsala
Telephone: +46 (0)18 56 11 80
Facsimile: +46 (0)18 56 11 88
E-mail address: info@medicago.se

1.4 Emergency telephone number

Emergency telephone number: Giftinformationscentralen 112

2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (EU-GHS/CLP)

Not classified as hazardous substance or mixture

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (EU-GHS/CLP)

Signal word: -

Hazard statement(s): -

Precautionary statement(s): -

Complementary hazard information

No further information

2.3 Other hazards

No data available

3. Composition/information on ingredients

3.2. Mixtures

No components need to be disclosed according to the applicable regulations.

4. First aid measures

4.1 Description of first aid measures

If swallowed	Rinse mouth with water; get medical attention if you feel unwell
If inhaled	Move to fresh air, get medical attention if you feel unwell
In case of skin contact	Wash with water; get medical attention if irritation occurs
In case of eye contact	Rinse with water; get medical attention if irritation occurs
General advice	Get medical attention if you feel unwell; show this safety data sheet to the doctor in attendance

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Use dry chemical powder

For large fire: Use water spray, fog or foam

5.2 Special hazards arising from the substance or mixture

No data available

5.3 Advice for fire fighters

Wear self-contained breathing apparatus for firefighting if necessary

5.4 Further information

No further information

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear lab coat, safety google, proper gloves and boots; ensure sufficient ventilation; wash hands after use

6.2 Environmental precautions

Do not let product enter drains

6.3 Methods and material for containment and cleaning up

Wipe with a suitable dry towel, keep in a suitable, closed and properly labelled container for disposal

6.4 Reference to other sections

For disposal: See section 13

7. Handling and storage

7.1 Precautions for safe handling

Wash hands after use; avoid contact with skin and eyes; ensure sufficient ventilation

7.2 Conditions for safe storage, including any incompatibilities

Store in original packaging in a cool, dry and well-ventilated place

7.3 Specific end use(s)

No data available

8. Exposure controls/personal protection

8.1 Control parameters

No data available

8.2 Exposure controls

Appropriate engineering controls

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels under recommended exposure levels; if user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limits

Personal protective equipment

Eye/face protection: Use safety goggles

Skin protection: Wear suitable gloves; gloves must be inspected prior use

Body Protection: Wear lab coat or other impervious clothes

Respiratory protection: Use suitable dust respirator, if necessary

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	green solution
Odour	no data available
Odour threshold	no data available
pH	7 at 20°C
Melting point/ freezing point	no data available
Initial boiling point and boiling range	no data available
Flash point	no data available
Evaporation rate	no data available
Flammability (Solid, gas)	no data available
Upper/lower flammability or explosive limits	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	soluble
Partition coefficient: n-octanol/ water	no data available
Auto-ignition temperature	no data available

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Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

9.2 Other information

No data available

10. Stability and Reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Strong oxidizing agents, strong acids, organic material

10.6 Hazardous decomposition products

No data available

11. Toxicological information

11.1 Information on toxicological effects

11.1.2 Mixtures

Acute toxicity

No data available

Skin corrosion/irritation

No data available

Serious eye damage/ eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

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Specific target organ toxicity – single exposure

No data available

Specific target organ toxicity – repeated exposure

No data available

Aspiration hazard

No data available

Potential health effects

No data available

12. Ecological information**12.1 Toxicity**

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

No data available

13. Disposal considerations**13.1 Waste treatment methods**

Waste must be disposed of in accordance with federal, state and local environmental control regulations. Do not dump into any sewers, on the ground or in any body of water

Contaminated packaging: Dispose of as unused product

14. Transport information**14.1 UN-number**

ADR-RID: - IMDG: - IATA: -

14.2 UN proper shipping name

ADR-RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

14.3 Transport hazard class(es)

ADR-RID: - IMDG: - IATA: -

14.4 Packaging group

ADR-RID: - IMDG: - IATA: -

(Continued on page 15)

14.5 Environmental hazards

ADR-RID:	no
IMDG, water pollutant:	no
IATA:	no

14.6 Special precautions for user

No data available

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No data available

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

No data available

15.2 Chemical safety assessment

No data available

16. Other information

This information is based on the current state of knowledge.

Precaution and disclaimer: For laboratory use only; not for drug, household, or any other use

SAFETY DATA SHEET: 24-0393

according to Regulation (EG) no 1907/2006

Generic EU MSDS – No country specific data

REVISION DATE: 2017-05-09

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name: Buffer Solution pH 9
Article number: 39-0061

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

Identified uses: Laboratory solution, calibration of pH meter

1.3 Details of the supplier of the safety data sheet

Company: Medicago AB
Danmark Berga 13
755 98 Uppsala
Telephone: +46 (0)18 56 11 80
Facsimile: +46 (0)18 56 11 88
E-mail address: info@medicago.se

1.4 Emergency telephone number

Emergency telephone number: Giftinformationscentralen 112

2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (EU-GHS/CLP)

Not classified as hazardous substance or mixture

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (EU-GHS/CLP)

Signal word: -

Hazard statement(s): -

Precautionary statement(s): -

Complementary hazard information

No further information

2.3 Other hazards

No data available

3. Composition/information on ingredients

3.2 Mixtures

No components need to be disclosed according to the applicable regulations.

4. First aid measures

4.1 Description of first aid measures

If swallowed	Rinse mouth with water; get medical attention if you feel unwell
If inhaled	Move to fresh air, get medical attention if you feel unwell
In case of skin contact	Wash with water; get medical attention if irritation occurs
In case of eye contact	Rinse with water; get medical attention if irritation occurs
General advice	Get medical attention if you feel unwell; show this safety data sheet to the doctor in attendance

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Use dry chemical powder

For large fire: Use water spray, fog or foam

5.2 Special hazards arising from the substance or mixture

No data available

5.3 Advice for fire fighters

Wear self-contained breathing apparatus for firefighting if necessary

5.4 Further information

No further information

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear lab coat, safety google, proper gloves and boots; ensure sufficient ventilation; wash hands after use

6.2 Environmental precautions

Do not let product enter drains

6.3 Methods and material for containment and cleaning up

Wipe with a suitable dry towel, keep in a suitable, closed and properly labelled container for disposal

6.4 Reference to other sections

For disposal: See section 13

7. Handling and storage

7.1 Precautions for safe handling

Wash hands after use; avoid contact with skin and eyes; ensure sufficient ventilation

7.2 Conditions for safe storage, including any incompatibilities

Store in original packaging in a cool, dry and well-ventilated place

7.3 Specific end use(s)

No data available

8. Exposure controls/personal protection

8.1 Control parameters

No data available

8.2 Exposure controls

Appropriate engineering controls

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels under recommended exposure levels; if user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limits

Personal protective equipment

Eye/face protection: Use safety goggles

Skin protection: Wear suitable gloves; gloves must be inspected prior use

Body Protection: Wear lab coat or other impervious clothes

Respiratory protection: Use suitable dust respirator, if necessary

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	blue solution
Odour	no data available
Odour threshold	no data available
pH	9 at 20°C
Melting point/ freezing point	no data available
Initial boiling point and boiling range	no data available
Flash point	no data available
Evaporation rate	no data available
Flammability (Solid, gas)	no data available
Upper/lower flammability or explosive limits	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	soluble
Partition coefficient: n-octanol/ water	no data available
Auto-ignition temperature	no data available

(Continued on page 19)

Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

9.2 Other information

No data available

10. Stability and Reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Basis, acids

10.6 Hazardous decomposition products

No data available

11. Toxicological information

11.1 Information on toxicological effects

11.1.2 Mixtures

Acute toxicity

No data available

Skin corrosion/irritation

No data available

Serious eye damage/ eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

(Continued on page 20)

Specific target organ toxicity – single exposure

No data available

Specific target organ toxicity – repeated exposure

No data available

Aspiration hazard

No data available

Potential health effects

No data available

12. Ecological information

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

No data available

13. Disposal considerations

13.1 Waste treatment methods

Waste must be disposed of in accordance with federal, state and local environmental control regulations. Do not dump into any sewers, on the ground or in any body of water
 Contaminated packaging: Dispose of as unused product

14. Transport information

14.1 UN-number

ADR-RID: - IMDG: - IATA: -

14.2 UN proper shipping name

ADR-RID: Not dangerous goods
 IMDG: Not dangerous goods
 IATA: Not dangerous goods

14.3 Transport hazard class(es)

ADR-RID: - IMDG: - IATA: -

14.4 Packaging group

ADR-RID: - IMDG: - IATA: -

(Continued on page 21)



14.5 Environmental hazards

ADR-RID: no
IMDG, water pollutant: no
IATA: no

14.6 Special precautions for user

No data available

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No data available

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

No data available

15.2 Chemical safety assessment

No data available

16. Other information

This information is based on the current state of knowledge.

Precaution and disclaimer: For laboratory use only; not for drug, household, or any other use