

Material Safety Data Sheet

1、Product and Company

Item Name : pH Standard Buffer Solution
Other Name : no
Item Number: AS700 pH 7.00 Buffer
Recommended use and restrictions on the use : pH Meter Correction using
The name of the manufacturer or supplier:ACCUSOLN CO.,LTD.
Address and telephone:No.26, Ln. 54, Nanzhong St., North Dist., Hsinchu City 300, Taiwan (R.O.C.) (03)5424632
Emergency Contact Phone / Fax : (03)5424632 /(03)5429343

2、Hazard Identification

Object hazard classification: Acute toxicity (Swallow) Fifth grade、Corrosion /Irritating to the skinThe third level、Serious injury /Irritation of the eyes The SECOND level



Mark Content: Symbol of the Province exclamation point symbol

Warnings : Warning

Hazard : May be harmful if swallowed、Causes mild skin irritation、Cause eye irritation。

Precautionary : If contact with eyes, rinse with clean water more than 15 minutes, if still sensory stimulation to the eye doctor should be 。

Avoid skin and eye contact 。

Wear suitable gloves 。

Keep away from sunlight 。

Placed a cool dry place 。

Tightly covered container, placed in well-ventilated premises 。

Other hazards :-

3、Component identification information

Pure substances：

Chinese and English name ： Phosphate pH Standard Solution neutral phosphate pH standard buffer
Synonyms： --
CAS registry number (CAS No.)： KH ₂ PO ₄ Potassium dihydrogen phosphate raw materials CAS registration number 7778-77-0, Na ₂ HPO ₄ disodium hydrogen phosphate of the registration number 7558-79-4
Composition of hazardous substances (The percentage composition)： 0.3% Potassium dihydrogen phosphate、0.4% Disodium hydrogen phosphate

Mixture：

Chemical properties:		
Composition of hazardous substances into the English name	Concentration or concentration range (The percentage composition)	(CAS No.)
Potassium Dihydrogen phosphate	0.3%	7778-77-0
Disodium hydrogen phosphate	0.4%	7558-79-4

4、First aid measures

Different routes of exposure of the first aid： Inhalation： Quiet after rinsing、Insulation。 Skin contact： With plenty of water。 Eye contact： To clean water for 15 minutes， If you still feel irritation to the eye doctor should be。 Ingestion： When a large number of eating ， Large amounts of lukewarm water or milk to induce vomiting ， Medical treatment and then rapidly。
The most important symptoms and hazardous effects： --
Protection of emergency personnel ： Wear gloves to avoid contact、Eating。
Prompted by the doctor ： To give proper treatment to the injured symptoms。

5、Fire-fighting measures

Extinguishing : Can pour the rescue °
Hazardous combustion products : NO
When Fire Hazards : NO °
Special fire fighting procedures : Need not °
Special protective equipment for fire fighting : General fire safety equipment °

6 、 Accidental release measures

Personal precautions : Wear gloves and goggles processing °
Environmental Considerations :
Methods for cleaning up : Polyethylene containers and in accordance with waste disposal °

7 、 Handling and Storage

Disposal : General location °
Store : Avoid exposure °

8 、 Exposure prevention measures

Engineering controls : Set wash, watering facilities °
Biological indicators: NO
Personal protective equipment : NO
Respiratory Protection : Need not
Hand Protection : Gloves
Eye Protection : Goggle
Skin and body protection : Lab coat
Health measures : Wash your hands °

9 、 Physical and chemical properties

Appearance (physical state, color, etc.): the solution, colorless	Odor: None
Odor threshold: no odor	Melting point: 0°C
pH value : 7.00(2 5°C) °	Boiling point / range: approx 100°C
Flammability (solid, gas): non-flammable liquids °	
Decomposition temperature: the liquid does not break down °	Flash Point : / °F / °C Test methods : / Open Cup / closed cup
Ignition temperature : Solution is not spontaneous combustion °	Explosion : Solution does not explode °

Vapor pressure : --	Vapor density : --
Density : 1g/cm3	Solubility :
Octanol / water partition coefficient (log Kow) :	Evaporation rate :

10 、 Stability and reactivity

Stability : Very stable °
Special Conditions of Hazardous Reaction: None
Conditions to avoid: None
Materials to avoid: None.
Hazardous Decomposition Products: None

11 、 Toxicity Data

Route of exposure : Mouth, eyes °
Symptoms: slight eye irritation if exposed °
Acute Toxicity: No acute toxicity °
Chronic or long-term toxicity: no opinion °

12 、 Ecological information

Ecotoxicity : Weak acid
Persistence and degradability: biodegradable °
Bioaccumulation: not accumulate in
Mobility in soil: no opinion
Other adverse effects: None °

13 、 Waste disposal methods

Waste disposal methods: Among the substances containing phosphorus compounds, according to science parks or industrial areas, disposal of waste water treatment requirements °
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14 、 Transport information

UN : No number of non-management products °
UN shipping name: Non-management products without shipping name
Hazard Classification: Not apply to non-hazardous materials
Packing Type: drum, bottle °
Marine pollutant (yes / no): Yes
Special delivery methods and precautions: Avoid leakage °

15 、Regulatory information

Applicable Regulations: Occupational Safety and Health regulations, industrial waste treatment and storage facilities, standard clearance °

16 、Other information

References	Japan Chemical Industry Co., Ltd. pharmacological material safety data sheets	
Watch those units	Name : ACCUSOLN CO.,LTD.	
	ADD AND TEL:No.26, Ln. 54, Nanzhong St., North Dist., Hsinchu City 300, Taiwan (R.O.C.) (03)5424632	
Lister	Title: Business Manager	name : Huang wen jui
Date of issue	2011.11.01	
Note: The above data "-" indicates no data or not applicable °		

REV:G

EM-0700-04B

Material Safety Data Sheet

1. Product and Company

Item Name : PH Standard Buffer Solution
Other Name : no
Item Number: AS401 pH 4.01 Buffer
Recommended use and restrictions on the use : pH Meter Correction using
The name of the manufacturer or supplier: ACCUSOLN CO.,LTD.
Address and telephone: No.26, Ln. 54, Nanzhong St., North Dist., Hsinchu City 300, Taiwan (R.O.C.) (03)5424632
Emergency Contact Phone / Fax : (03)5424632 /(03)5429343

2. Hazard Identification

Object hazard classification: Acute toxicity (Swallow) Fifth grade, Corrosion /Irritating to the skin. The third level, Serious injury / Irritation of the eyes The SECOND level



Mark Content: Symbol of the Province exclamation point symbol

Warnings : Warning

Hazard : May be harmful if swallowed 、 Causes mild skin irritation 、 Cause eye irritation 。

Precautionary : If contact with eyes, rinse with clean water more than 15 minutes, if still

sensory stimulation to the eye doctor should be 。

Avoid skin and eye contact 。

Wear suitable gloves 。

Keep away from sunlight 。

Placed a cool dry place 。

Tightly covered container, placed in well-ventilated premises 。

Other hazards :-

3.Component identification information

Pure substances :

Chinese and English name : Phthalate pH Standard Solution phthalate pH standard solution
Synonyms : --
CAS registry number (CAS No.) : 877-24-7
Composition of hazardous substances (The percentage composition) : 1%Potassium Hydrogen Phthalate

Mixture :

Chemical properties:		
Composition of hazardous substances into the English name	Concentration or concentration range (The percentage composition)	(CAS No.)
Potassium Hydrogen Phthalate	1%	877-24-7

4. First aid measures

Different routes of exposure of the first aid : Inhalation : Quiet after rinsing 、Insulation 。 Skin contact : With plenty of water 。 Eye contact : To clean water for 15 minutes , If you still feel irritation to the eye doctor should be 。 Ingestion : When a large number of eating 、 Large amounts of lukewarm water or milk to induce vomiting 、 Medical treatment and then rapidly 。
The most important symptoms and hazardous effects : --
Protection of emergency personnel : Wear gloves to avoid contact 、 Eating 。
Prompted by the doctor : To give proper treatment to the injured symptoms 。

5. Fire-fighting measures

Extinguishing : Can pour the rescue 。
Hazardous combustion products : NO
When Fire Hazards : NO 。
Speci al fire fighting procedures : Need not 。

Special protective equipment for fire fighting : General fire safety equipment °

6. Accidental release measures

Personal precautions : Wear gloves and goggles processing °

Environmental Considerations :

Methods for cleaning up : Polyethylene containers and in accordance with waste disposal °

7. Handling and Storage

Disposal : General location °

Store : Avoid exposure °

8. Exposure prevention measures

Engineering controls : Set wash, watering facilities °
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Biological indicators:NO

Personal protective equipment : NO

Respiratory Protection : Need not

Hand Protection : Gloves

Eye Protection : Goggle

Skin and body protection : Lab coat

Health measures : Wash your hands °

9. Physical and chemical properties

Appearance (physical state, color, etc.): the solution, colorless	Odor: None
Odor threshold: no odor	Melting point: 0°C
pH value : 7.00(2 5°C) °	Boiling point / range: approx 100°C
Flammability (solid, gas): non-flammable liquids °	
Decomposition temperature: the liquid does not break down °	Flash Point : / °F / °C Test methods : / Open Cup / closed cup
Ignition temperature : Solution is not spontaneous combustion °	Explosion : Solution does not explode °
Vapor pressure : --	Vapor density : --
Density : 1g/cm ³	Solubility :
Octanol / water partition coefficient (log Kow) :	Evaporation rate :

10. Stability and reactivity

Stability : Very stable °
Special Conditions of Hazardous Reaction: None
Conditions to avoid: None
Materials to avoid: None.
Hazardous Decomposition Products: None

11. Toxicity Data

Route of exposure : Mouth, eyes °
Symptoms: slight eye irritation if exposed °
Acute Toxicity: No acute toxicity °
Chronic or long-term toxicity: no opinion °

12. Ecological information

Ecotoxicity : Weak acid
Persistence and degradability: biodegradable °
Bioaccumulation: not accumulate in
Mobility in soil: no opinion
Other adverse effects: None °

13. Waste disposal methods

Waste disposal methods: Among the substances containing phosphorus compounds, according to science parks or industrial areas, disposal of waste water treatment requirements °
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14. Transport information

UN : No number of non-management products °
UN shipping name: Non-management products without shipping name
Hazard Classification: Not apply to non-hazardous materials
Packing Type: drum, bottle °
Marine pollutant (yes / no): Yes
Special delivery methods and precautions: Avoid leakage °

15. Regulatory information

Applicable Regulations: Occupational Safety and Health regulations, industrial waste treatment and storage facilities, standard clearance °

16. Other information

References	Japan Chemical Industry Co., Ltd. pharmacological material safety data sheets	
Watch those units	Name : ACCUSOLN CO.,LTD.	
	ADD AND TEL:No.26, Ln. 54, Nanzhong St., North Dist., Hsinchu City 300, Taiwan (R.O.C.) (03)5424632	
Lister	Title: Business Manager	name : Huang wen jui
Date of issue	2011.11.01	
Note: The above data "-" indicates no data or not applicable °		

REV:G

EM-0700-04B

Material Safety Data Sheet

1、Product and Company

Item Name : PH Standard Buffer Solution
Other Name : no
Item Number:AS1000—pH 10.00 Buffer
Recommended use and restrictions on the use : pH Meter Correction using
The name of the manufacturer or supplier: ACCUSOLN CO.,LTD.
Address and telephone: No.26, Ln. 54, Nanzhong St., North Dist., Hsinchu City 300, Taiwan (R.O.C.) (03)5424632
Emergency Contact Phone / Fax : (03)5424632 /(03)5429343

2、Hazard Identification

Object hazard classification: Acute toxicity (Swallow) Fifth grade、Corrosion /Irritating to the skinThe third level、Serious injury /Irritation of the eyes The SECOND level



Mark Content: Symbol of the Province exclamation point symbol

Warnings : Warning

Hazard : May be harmful if swallowed、Causes mild skin irritation、Cause eye irritation。

Precautionary : If contact with eyes, rinse with clean water more than 15 minutes, if still

sensory stimulation to the eye doctor should be 。

Avoid skin and eye contact 。

Wear suitable gloves 。

Keep away from sunlight 。

Placed a cool dry place 。

Tightly covered container, placed in well-ventilated premises 。

Other hazards :-

3、Component identification information

Pure substances :

Chinese and English name : Carbonate pH Standard Solution
Synonyms : --
CAS registry number (CAS No.) : Na ₂ CO ₃ CAS registration number 497-19-8, NaHCO ₃ CAS registration number 144-55-8
Composition of hazardous substances (The percentage composition) : 0.27% Na ₂ CO ₃ 、 0.21% NaHCO ₃

Mixture :

Chemical properties:		
Composition of hazardous substances into the English name	Concentration or concentration range (The percentage composition)	(CAS No.)
Na ₂ CO ₃	0.27%	497-19-8
NaHCO ₃	0.21%	144-55-8

4、First aid measures

Different routes of exposure of the first aid : Inhalation : Quiet after rinsing 、 Insulation 。 Skin contact : With plenty of water 。 Eye contact : To clean water for 15 minutes , If you still feel irritation to the eye doctor should be 。 Ingestion : When a large number of eating 、 Large amounts of lukewarm water or milk to induce vomiting 、 Medical treatment and then rapidly 。
The most important symptoms and hazardous effects : --
Protection of emergency personnel : Wear gloves to avoid contact 、 Eating 。
Prompted by the doctor : To give proper treatment to the injured symptoms 。

5、Fire-fighting measures

Extinguishing : Can pour the rescue 。
Hazardous combustion products : NO
When Fire Hazards : NO 。
Special fire fighting procedures : Need not 。

Special protective equipment for fire fighting
: General fire safety equipment °

6 、 Accidental release measures

Personal precautions : Wear gloves and goggles processing °

Environmental Considerations :

Methods for cleaning up : Polyethylene containers and in accordance with waste disposal °

7 、 Handling and Storage

Disposal : General location °

Store : Avoid exposure °

8 、 Exposure prevention measures

Engineering controls : Set wash, watering facilities °

Biological indicators:NO

Personal protective equipment : NO

Respiratory Protection : Need not

Hand Protection : Gloves

Eye Protection : Goggle

Skin and body protection : Lab coat

Health measures : Wash your hands °

9 、 Physical and chemical properties

Appearance (physical state, color, etc.): the solution, colorless	Odor: None
Odor threshold: no odor	Melting point: 0°C
pH value : 7.00(2 5°C) °	Boiling point / range: approx 100°C
Flammability (solid, gas): non-flammable liquids °	
Decomposition temperature: the liquid does not break down °	Flash Point : / °F / °C Test methods : / Open Cup / closed cup
Ignition temperature : Solution is not spontaneous combustion °	Explosion : Solution does not explode °
Vapor pressure : --	Vapor density : --
Density : 1g/cm3	Solubility :
Octanol / water partition coefficient (log Kow) :	Evaporation rate :

10 、 Stability and reactivity

Stability : Very stable °
Special Conditions of Hazardous Reaction: None
Conditions to avoid: None
Materials to avoid: None.
Hazardous Decomposition Products: None

11 、 Toxicity Data

Route of exposure : Mouth, eyes °
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Chronic or long-term toxicity: no opinion °

12 、 Ecological information

Ecotoxicity : Weak acid
Persistence and degradability: biodegradable °
Bioaccumulation: not accumulate in
Mobility in soil: no opinion
Other adverse effects: None °

13 、 Waste disposal methods

Waste disposal methods: Among the substances containing phosphorus compounds, according to science parks or industrial areas, disposal of waste water treatment requirements °
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14 、 Transport information

UN : No number of non-management products °
UN shipping name: Non-management products without shipping name
Hazard Classification: Not apply to non-hazardous materials
Packing Type: drum, bottle °
Marine pollutant (yes / no): Yes
Special delivery methods and precautions: Avoid leakage °

15 、 Regulatory information

Applicable Regulations: Occupational Safety and Health regulations, industrial waste treatment and storage facilities, standard clearance °

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