



Buffer pH 10 (Colour Coded Blue)

SECTION 1. IDENTIFICATION

Product Identifier	Buffer pH 10 (Colour Coded Blue)
Other Means of Identification	None
Product Code	BU1100B
Product Family	Inorganic solution
Recommended Use	Laboratory and industrial use.
Restrictions on Use	None known.
Supplier Identifier	Alphachem Limited, 2485 Milltower Court, Mississauga, Ontario, L5N 5Z6, (905) 821-2995
Emergency Phone No.	CANUTEC CANADA, 613-996-6666, 24 Hours
SDS No.	0830

SECTION 2. HAZARD IDENTIFICATION

Classified according to the US Hazard Communication Standard (HCS 2012). **Classification** Not classified under any hazard class. **Label Elements** Not applicable **Other Hazards** None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:			
Chemical Name	CAS No.	%	Other Identifiers
Water	7732-18-5	95 - 98	Dihydrogen Oxide
Acetic acid, (ethylenedinitrilo)tetra-, disodium salt, dihydrate	6381-92-6	<1.0 - 1.0	EDTA
Potassium carbonate	584-08-7	<1.0 - 1.0	Potash, Pearl Ash
Boron potassium oxide (B4K2O7)	1332-77-0	0.4	Potassium Tetraborate
Potassium hydroxide	1310-58-3	< 0.2 - 0.5	Potassium Hydrate
Potassium borate tetrahydrate	12045-78-2	< 0.5	Dipotassium Tetraborate

Notes

This product contains trace amount of blue colour.

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Move to fresh air. Keep at rest in a position comfortable for breathing. If breathing is difficult, trained personnel

should administer emergency oxygen if advised to do so by Poison Centre or doctor. Skin Contact

Quickly and gently blot or brush away excess chemical. Immediately rinse with lukewarm, gently flowing water for 15-20 minutes.

Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Immediately call a Poison Centre or doctor and follow their advice.

Ingestion

Do not induce vomiting. Rinse mouth with water. If vomiting occurs naturally, lie on your side in the recovery position. Rinse mouth with water again.

First-aid Comments

Some of the first-aid procedures recommended here require advanced first-aid training. If exposed or concerned, get medical advice or attention.

Most Important Symptoms and Effects, Acute and Delayed

None known.

Immediate Medical Attention and Special Treatment

Special Instructions

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Not combustible. Use extinguishing agent suitable for surrounding fire.

Unsuitable Extinguishing Media

None known.

Specific Hazards Arising from the Product

Does not burn. Heating increases the release of toxic vapour. Irritating chemicals.

Special Protective Equipment and Precautions for Fire-fighters

Fight fire from a safe distance or a protected location. Approach fire from upwind to avoid hazardous vapours or gases. For a massive fire, immediately evacuate the area and use unmanned hose holder or monitor nozzles. Dike and recover contaminated water for appropriate disposal.

Fire-fighters may enter the area if positive pressure SCBA and full Bunker Gear is worn.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Use the personal protective equipment recommended in Section 8 of this safety data sheet. Evacuate the area immediately. Isolate the hazard area. Keep out unnecessary and unprotected personnel. Increase ventilation to area or move leaking container to a well-ventilated and secure area.

Environmental Precautions

It is good practice to prevent releases into the environment.

Methods and Materials for Containment and Cleaning Up

Contain and soak up spill with absorbent that does not react with spilled product. Place used absorbent into suitable, covered, labelled containers for disposal.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Wear personal protective equipment to avoid direct contact with this chemical. Only use where there is adequate

Store in an area that is: cool, dry, well-ventilated. Store in a closed container.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

	ACGIH TLV®		OSHA PEL		AIHA WEEL	
Chemical Name	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Water	Not established		Not established			
Acetic acid, (ethylenedinitrilo)tetra-, disodium salt, dihydrate	Not established	Not established				
Potassium carbonate	Not established		Not established			
Boron potassium oxide (B4K2O7)	2 mg/m3	6 mg/m3				
Potassium hydroxide				2 mg/m3		
Potassium borate tetrahydrate	2 mg/m3 A4	6 mg/m3 A4	Not established			

A4 = Not classifiable as a human carcinogen.

Appropriate Engineering Controls

General ventilation is usually adequate. Do not allow product to accumulate in the air in work or storage areas, or in confined spaces. Use local exhaust ventilation and enclosure, if necessary, to control amount in the air. Provide eyewash and safety shower if contact or splash hazard exists.

Individual Protection Measures

Eye/Face Protection

Wear chemical safety goggles and face shield when contact is possible.

Skin Protection

Wear chemical protective clothing e.g. gloves, aprons, boots.

Respiratory Protection

Wear a NIOSH approved air-purifying respirator with an appropriate cartridge.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Blue liquid.
Odourless
Not available
10.0
0 °C (32 °F) (melting); 0 °C (32 °F) (freezing)
100 °C (212 °F)
Not available
> 1
Not available
Not available (upper); Not available (lower)
Not available
Not available
~ 1.0 at 25 °C
Soluble in water; Not available (in other liquids)

Partition Coefficient, n-Octanol/Water (Log Kow)	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	Not available (kinematic); Not available (dynamic)
Other Information	
Physical State	Liquid

SECTION 10. STABILITY AND REACTIVITY

Reactivity
None known.
Chemical Stability
Normally stable.
Possibility of Hazardous Reactions
None expected under normal conditions of storage and use.
Conditions to Avoid
Excess heat.
Incompatible Materials
None known.
Hazardous Decomposition Products
Irritating chemicals.

SECTION 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

Inhalation; skin contact; eye contact; ingestion.

Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Water	Not available	> 89840 mg/kg (rat)	Not available
Acetic acid, (ethylenedinitrilo)tetra-, disodium salt, dihydrate	2000 mg/kg (rat)		
Potassium carbonate		1870 mg/kg (rat)	
Potassium hydroxide	Not available	273 mg/kg (rat)	> 1260 mg/kg (rabbit)
Potassium borate tetrahydrate	Not available	2660 mg/kg (rat)	Not available

Skin Corrosion/Irritation

No information was located.

Serious Eye Damage/Irritation

No information was located.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

No information was located.

Ingestion

No information was located.

Aspiration Hazard

No information was located.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

No information was located.

Respiratory and/or Skin Sensitization

No information was located.

Carcinogenicity

Chemical Name	IARC	ACGIH®	NTP	OSHA
Water	Not Listed	Not Listed	Not Listed	Not Listed
Acetic acid, (ethylenedinitrilo)tetra-, disodium salt, dihydrate	Not Listed	Not Listed	Not Listed	Not Listed
Potassium carbonate	Not Listed	Not Listed	Not Listed	Not Listed
Boron potassium oxide (B4K2O7)	Not Listed	Not Listed	Not Listed	Not Listed
Potassium hydroxide	Not Listed	Not Listed	Not Listed	Not Listed
Potassium borate tetrahydrate	Not Listed	Not designated	Not Listed	Not Listed

Reproductive Toxicity

Development of Offspring

No information was located.

Sexual Function and Fertility

No information was located.

Effects on or via Lactation

No information was located.

Germ Cell Mutagenicity

No information was located.

Interactive Effects

No information was located.

SECTION 12. ECOLOGICAL INFORMATION

This section is not required by WHMIS. This section is not required by OSHA HCS 2012.

Other Adverse Effects

There is no information available.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of contents and container in accordance with local, regional, national and international regulations.

SECTION 14. TRANSPORT INFORMATION

Not regulated under Canadian TDG regulations. Not regulated under US DOT Regulations. Not regulated under IATA Regulations.

Environmental Not applicable Hazards

Special Precautions Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Canada

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

Listed on the DSL.

USA

Toxic Substances Control Act (TSCA) Section 8(b)

Listed on the TSCA Inventory.

SECTION 16. OTHER INFORMATION

SDS Prepared By	Alphachem Limited
Phone No.	(905)-821-2995
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References	CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS).
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