

# Buffer pH 10

# **SECTION 1. IDENTIFICATION**

**Product Identifier** Buffer pH 10

Other Means of

None

Identification

**Product Code(s)** BU1100

**Product Family** Inorganic solution **Recommended Use** Laboratory. **Restrictions on Use** 

**Supplier Identifier** Alphachem Limited, 2485 Milltower Court, Mississauga, Ontario, L5N 5Z6, (905) 821-2995

Emergency Phone No. CANUTEC CANADA, 613-996-6666, 24 Hours

None known.

SDS No. 0050

# **SECTION 2. HAZARD IDENTIFICATION**

#### 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 - 99	Dihydrogen Oxide
Acetic acid, (ethylenedinitrilo)tetra-, disodium salt, dihydrate	6381-92-6	<1.0 - 1.0	EDTA
Potassium carbonate	584-08-7	<1 - 0.60	Potash, Pearl Ash
Potassium hydroxide	1310-58-3	<0.5 - 0.50	Potassium Hydrate
Potassium Borate	12228-88-5	<0.50	Potassium Tetraborate

# **SECTION 4. FIRST-AID MEASURES**

### **First-aid Measures**

#### Inhalation

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. Get medical aid if cough or other symptoms appear.

#### **Skin Contact**

Immediately rinse with lukewarm, gently flowing water for 15-20 minutes. If skin irritation occurs, get medical advice or attention.

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#### **Eye Contact**

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upperand lower eyelids. If irritation develops, get medical aid. Immediately call a Poison Centre or doctor.

# Ingestion

Never give anything by mouth if person is rapidly losing consciousness, or is unconscious or convulsing. Do not induce vomiting. Rinse mouth with water. Immediately call a Poison Centre or doctor.

# **First-aid Comments**

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**

No information available.

# **Specific Hazards Arising from the Product**

None known.

None known.

# **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

Do not touch damaged containers or spilled product unless wearing appropriate protective equipment. Increase ventilation to area or move leaking container to a well-ventilated and secure area.

### **Environmental Precautions**

If the spill is inside a building, prevent product from entering drains, ventilation systems and confined areas. Do not allow into any sewer, on the ground or into any waterway.

#### 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. Do not get in eyes, on skin or on clothing. Only use where there is adequate ventilation. Keep containers tightly closed when not in use or empty.

#### **Conditions for Safe Storage**

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

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# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control Parameters**

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

# **Appropriate Engineering Controls**

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**

Not normally required if product is used as directed. For non-routine or emergency situations: wear a NIOSH approved air-purifying respirator with an appropriate cartridge.

# **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

# **Basic Physical and Chemical Properties**

Appearance Clear colourless liquid. Particle Size: Not available

Odour Odourless
Odour Threshold Not available

**pH** 10.0

Melting Point/Freezing Point Not available (melting); Not available (freezing)

Initial Boiling Point/RangeNot availableFlash PointNot availableEvaporation RateNot availableFlammability (solid, gas)Not available

Upper/Lower Flammability or

**Explosive Limit** 

Not available (upper); Not available (lower)

Vapour PressureNot availableVapour Density (air = 1)Not availableRelative Density (water = 1)Not available

**Solubility** Soluble in water; Not available (in other liquids)

Partition Coefficient, Not available

n-Octanol/Water (Log Kow)

Auto-ignition TemperatureNot availableDecomposition TemperatureNot available

Viscosity Not available (kinematic); Not available (dynamic)

Other Information

Physical State Liquid

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Molecular FormulaNot applicableMolecular WeightNot applicableBulk DensityNot availableSurface TensionNot availableVapour Pressure at 50 deg CNot availableSaturated Vapour ConcentrationNot available

# **SECTION 10. STABILITY AND REACTIVITY**

Reactivity

None known.

**Chemical Stability** 

Normally stable.

**Possibility of Hazardous Reactions** 

None known.

**Conditions to Avoid** 

None known.

**Incompatible Materials** 

None known.

**Hazardous Decomposition Products** 

None known.

# **SECTION 11. TOXICOLOGICAL INFORMATION**

# **Likely Routes of Exposure**

Inhalation; skin contact; eye contact; ingestion.

# **Acute Toxicity**

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

# 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.

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### Respiratory and/or Skin Sensitization

No information was located.

### Carcinogenicity

Chemical Name	IARC	ACGIH®	NTP	OSHA
Potassium carbonate	Not Listed	Not Listed	Not Listed	Not Listed
Potassium hydroxide	Not Listed	Not Listed	Not Listed	Not Listed
Water	Not Listed	Not Listed	Not Listed	Not Listed
Acetic acid, (ethylenedinitrilo)tetra-, disodium salt, dihydrate	Not Listed	Not Listed	Not Listed	Not Listed

Key to Abbreviations

ACGIH® = American Conference of Governmental Industrial Hygienists. IARC = International Agency for Research on Cancer. NTP = National Toxicology Program. OSHA = US Occupational Safety and Health Administration.

# **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.

#### **Ecotoxicity**

No information was located.

# **SECTION 13. DISPOSAL CONSIDERATIONS**

# **Disposal Methods**

This product is a non-hazardous waste. Contact local environmental authorities for approved disposal or recycling methods in your jurisdiction. Treat waste in an approved waste disposal facility.

# **SECTION 14. TRANSPORT INFORMATION**

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

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

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# 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

Date of Preparation December 12, 2016

Date of Last Revision December 21, 2016

**References** CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS).

**Disclaimer** This document is offered only as a guide in the safe handling of the above product, and has

been prepared from the best information currently available. It is not intended to be all-inclusive and the conditions of use may involve other additional considerations. Since Alphachem Limited cannot anticipate or control the conditions under which the product may be used, it will not be liable for any claims, damages or losses which may result from the use or

reliance on any information herein.

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