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### **Polymer Buffer**

# **SECTION 1: Identification**

**Product identifier** 

**Product name:** Polymer Buffer **Product code:** AR-1065-60

#### Recommended use of the product and restriction on use

Relevant identified uses: Laboratory chemicals

**Uses advised against:** Not determined or not applicable.

**Reasons why uses advised against:** Not determined or not applicable.

### Manufacturer or supplier details

#### Manufacturer:

#### Canada

Aqua Analytics 245 Matheson Blvd East Units 1 & 2 Mississauga Ontario Canada L4Z 3C9 (888) 712-4000

# **Emergency telephone number:**

**United States** 

Emergency Phone No. (613) 996-6666

# **SECTION 2: Hazard identification**

### **GHS** classification:

Skin irritation, category 2 Eye irritation, category 2A

## **Label elements**

## Hazard pictograms:



Signal word: Warning

# Hazard statements:

H315 Causes skin irritation.

H319 Causes serious eye irritation.

### **Precautionary statements:**

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P321 Specific treatment (see supplemental first aid instructions on this label).

P362 Take off contaminated clothing and wash before reuse.

P302+P352 If on skin: Wash with soap and water.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if

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# **Polymer Buffer**

present and easy to do. Continue rinsing.

Hazards not otherwise classified: None

# SECTION 3: Composition/information on ingredients

Identification	Name	Weight %
CAS number: 7732-18-5	Water	83.48
CAS number: 1310-73-2	Sodium hydroxide	0.27
CAS number: 6381-92-6	Disodium EDTA	14
CAS number: 141-43-5	Ethanolamine	1.5
CAS number: 6132-04-3	Sodium Citrate	0.75

Additional Information: None

# **SECTION 4: First-aid measures**

# Description of first-aid measures

# **General notes:**

Not determined or not available.

# After inhalation:

Loosen clothing as necessary and position individual in a comfortable position

Maintain an unobstructed airway

Get medical advice/attention if you feel unwell

# After skin contact:

Wash affected area with soap and water

Seek medical attention if symptoms develop or persist

# After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes

Remove contact lens(es) if able to do so during rinsing

Seek medical attention if irritation persists or if concerned

#### After ingestion:

Rinse mouth and then drink plenty of water

Do not induce vomiting

Get medical advice/attention if you feel unwell

### Most important symptoms and effects, both acute and delayed

## Acute symptoms and effects:

Not determined or not available.

#### **Delayed symptoms and effects:**

Not determined or not available.

# Immediate medical attention and special treatment

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### **Polymer Buffer**

#### Specific treatment:

Not determined or not available.

#### Notes for the doctor:

Not determined or not available.

# **SECTION 5: Fire-fighting measures**

# **Extinguishing media**

#### **Suitable extinguishing media:**

Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition

## Unsuitable extinguishing media:

Not determined or not applicable.

## Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors

## **Special protective equipment for firefighters:**

Wear protective eye wear, gloves and clothing

Refer to Section 8

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit

# Special precautions:

Heating causes a rise in pressure, risk of bursting and combustion

Shut off sources of ignition

Carbon monoxide and carbon dioxide may form upon combustion

#### **SECTION 6: Accidental release measures**

## Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation

Ensure air handling systems are operational

Wear protective eye wear, gloves and clothing

#### **Environmental precautions:**

Should not be released into the environment

Prevent from reaching drains, sewer or waterway

#### Methods and material for containment and cleaning up:

Absorb with non-combustible liquid-binding material (sand, diatomaceous earth (clay), acid binders, universal binders)

Dispose of contents / container in accordance with local regulations

## Reference to other sections:

Not determined or not applicable.

## **SECTION 7: Handling and storage**

#### Precautions for safe handling:

Do not eat, drink, smoke or use personal products when handling chemical substances.

Avoid breathing mist or vapor.

Use only with adequate ventilation.

# Conditions for safe storage, including any incompatibilities:

Store in a cool, well-ventilated area.

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# **Polymer Buffer**

Store away from foodstuffs.

## **SECTION 8: Exposure controls/personal protection**

Only those substances with limit values have been included below.

## Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
NIOSH	Ethanolamine	141-43-5	NIOSH REL TWA 3 ppm (8 mg/m³)
	Ethanolamine	141-43-5	NIOSH REL ST 6 ppm (15 mg/m³)
	Sodium hydroxide	1310-73-2	NIOSH REL C 2.0 mg/m <sup>3</sup>
	Sodium hydroxide	1310-73-2	NIOSH IDLH 10.0 mg/m³
United States (OSHA)	Ethanolamine	141-43-5	OSHA PEL TWA 3 ppm (6 mg/m³)
	Sodium hydroxide	1310-73-2	OSHA PEL TWA 2.0 mg/m <sup>3</sup>
ACGIH	Sodium hydroxide	1310-73-2	ACGIH TLV C 2.0 mg/m <sup>3</sup>

## **Biological limit values:**

No biological exposure limits noted for the ingredient(s).

#### Information on monitoring procedures:

Not determined or not applicable.

## **Appropriate engineering controls:**

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

# Personal protection equipment

# **Eye and face protection:**

Safety goggles or glasses, or appropriate eye protection.

### Skin and body protection:

Select glove material impermeable and resistant to the substance.

#### **Respiratory protection:**

When necessary, use NIOSH-approved breathing equipment.

# General hygienic measures:

Wash hands before breaks and at the end of work.

Avoid contact with skin, eyes and clothing.

Perform routine housekeeping.

Wash contaminated clothing before reusing.

## **SECTION 9: Physical and chemical properties**

# Information on basic physical and chemical properties

Appearance (physical state, color):	Clear, colorless liquid
Odor:	Odorless
Odor threshold:	Not available
pH-value:	10.8

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# **Polymer Buffer**

Melting/Freezing point:	Not available
Boiling point/range:	Not available
Flash point:	Not available
Evaporation rate:	Not available
Flammability (solid, gaseous):	Not available
Explosion limit upper:	Not available
Explosion limit lower:	Not available
Vapor pressure:	Not available
Vapor density:	Not available
Density:	Not available
Relative density:	Not available
Solubilities:	Not determined or not available.
Partition coefficient (n-octanol/water):	Not available
Auto/Self-ignition temperature:	Not available
Decomposition temperature:	Not available
Dynamic viscosity:	Not available
Kinematic viscosity:	Not available
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

#### Other information

# **SECTION 10: Stability and reactivity**

### **Reactivity:**

Does not react under normal conditions of use and storage.

### Chemical stability:

Stable under normal conditions of use and storage.

# Possibility of hazardous reactions:

None under normal conditions of use and storage.

# **Conditions to avoid:**

None known.

# Incompatible materials:

None known.

# **Hazardous decomposition products:**

None known.

# **SECTION 11: Toxicological information**

# Acute toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

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# **Polymer Buffer**

Name	Route	Result
Ethanolamine	inhalation	LC50 - Mouse - >2420 mg/m³/2H
	oral	LD50 - Mouse - 700 mg/kg
	dermal	LD50 - Rat - 1000 mg/kg

### Skin corrosion/irritation

**Assessment:** Causes skin irritation **Product data:** No data available.

Substance data:

Name	Result
Ethanolamine	Causes severe skin burns and eye damage.
Sodium hydroxide	Causes severe skin burns and eye damage.

## Serious eye damage/irritation

Assessment: Causes serious eye irritation

Product data: No data available.

Substance data: No data available.

## Respiratory or skin sensitization

**Assessment:** Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

### Carcinogenicity

**Assessment:** Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

International Agency for Research on Cancer (IARC): None of the ingredients are listed.

National Toxicology Program (NTP): None of the ingredients are listed.

#### Germ cell mutagenicity

Assessment: Based on available data, the classification criteria are not met.

**Product data:** No data available. **Substance data:** No data available.

# Reproductive toxicity

**Assessment:** Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

# Specific target organ toxicity (single exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

# Specific target organ toxicity (repeated exposure)

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available. **Substance data:** No data available.

#### Aspiration toxicity

**Assessment:** Based on available data, the classification criteria are not met.

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# **Polymer Buffer**

Product data: No data available.

Substance data: No data available.

Information on likely routes of exposure: No data available.

Symptoms related to the physical, chemical and toxicological characteristics: No data available.

Other information: No data available.

### **SECTION 12: Ecological information**

#### Acute (short-term) toxicity

**Assessment:** Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Chronic (long-term) toxicity

**Product data:** No data available. **Substance data:** No data available.

## Persistence and degradability

**Product data:** No data available. **Substance data:** No data available.

#### Bioaccumulative potential

**Product data:** No data available. **Substance data:** No data available.

# Mobility in soil

Product data: No data available.
Substance data: No data available.
Other adverse effects: No data available.

# **SECTION 13: Disposal considerations**

## **Disposal methods:**

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11)

### **SECTION 14: Transport information**

### **Canadian Transportation of Dangerous Goods (TDG)**

UN number	Not Regulated
UN proper shipping name	Not Regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

### International Maritime Dangerous Goods (IMDG)

UN number	Not Regulated
UN proper shipping name	Not Regulated

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# **Polymer Buffer**

UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

### International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	Not Regulated
UN proper shipping name	Not Regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code		
Bulk Name	None	
Ship type	None	
Pollution category	None	

# **SECTION 15: Regulatory information**

## **Canada regulations**

#### Domestic substances list (DSL):

141-43-5	Ethanolamine	Listed
7732-18-5	Water	Listed
6381-92-6	EDTA Disodium Salt Dihydrate	Listed
1310-73-2	Sodium hydroxide	Listed
6132-04-3	Sodium Citrate	Not Listed

Non-domestic substances list (NDSL): Not determined.

# **SECTION 16: Other information**

#### Abbreviations and Acronyms: None

### **Disclaimer:**

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

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# **Polymer Buffer**

**NFPA:** 2-0-0 **HMIS:** 2-0-0

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**End of Safety Data Sheet**