



# SAFETY DATA SHEET

## Buffer Solutions

### Section 1. Identification

**GHS product identifier** : Buffer Solutions

**Other means of identification** : Not available.

<b>Trade name</b>		<b>Code</b>
	: Buffer Solution pH 5.0	PL.910
	: Buffer Solution pH 5.5	PL.911
	: Buffer Solution pH 6.0	PL.912
	: Buffer Solution pH 6.5	PL.913
	: Buffer Solution pH 7.0	PL.914
	: Buffer Solution pH 7.5	PL.915

#### Identified uses

The Buffer Solutions are for use as quality control laboratory reagents to test the performance of AmnioTest™ swabs.

**Supplier's details** : Pro-Lab Diagnostics  
20 Mural Street, Unit 4  
Richmond Hill, ON  
Canada L4B 1K3  
Tel: +1-905-731-0300  
Fax: +1-905-731-0206  
www.pro-lab.com

**Emergency telephone number (with hours of operation)** : 905-731-0300 –Monday to Friday 8:30 am to 5:00 pm Eastern Standard Time.  
416-230-0692 –Outside the above hours.

### Section 2. Hazards identification

**OSHA/HCS status** : While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

<b>Classification of the substance or mixture</b>	: <b>PL.910</b>	Not classified.
	<b>PL.911</b>	Not classified.
	<b>PL.912</b>	Not classified.
	<b>PL.913</b>	Not classified.
	<b>PL.914</b>	Not classified.
	<b>PL.915</b>	Not classified.

#### GHS label elements

**Signal word** : No signal word.

**Hazard statements** : No known significant effects or critical hazards.

#### Precautionary statements

**Prevention** : Not applicable.

**Response** : Not applicable.

**Storage** : Not applicable.

**Disposal** : Not applicable.



## Section 2. Hazards identification

### Hazards not otherwise classified (HNOC)

**Physical hazards not otherwise classified (PHNOC)** : None known.

**Health hazards not otherwise classified (HHNOC)** : None known.

## Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture

**Other means of identification** : Not available.

### CAS number/other identifiers

**CAS number** : Not applicable.

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

### Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- Skin contact** : Flush contaminated skin with plenty of water. Get medical attention if symptoms occur.
- Ingestion** : Wash out mouth with water. Get medical attention if symptoms occur.

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

#### Potential acute health effects

<b>Eye contact</b>	<b>: PL.910</b>	No known significant effects or critical hazards.
	<b>PL.911</b>	No known significant effects or critical hazards.
	<b>PL.912</b>	No known significant effects or critical hazards.
	<b>PL.913</b>	No known significant effects or critical hazards.
	<b>PL.914</b>	No known significant effects or critical hazards.
	<b>PL.915</b>	No known significant effects or critical hazards.
<b>Inhalation</b>	<b>: PL.910</b>	No known significant effects or critical hazards.
	<b>PL.911</b>	No known significant effects or critical hazards.
	<b>PL.912</b>	No known significant effects or critical hazards.
	<b>PL.913</b>	No known significant effects or critical hazards.
	<b>PL.914</b>	No known significant effects or critical hazards.
	<b>PL.915</b>	No known significant effects or critical hazards.
<b>Skin contact</b>	<b>: PL.910</b>	No known significant effects or critical hazards.
	<b>PL.911</b>	No known significant effects or critical hazards.
	<b>PL.912</b>	No known significant effects or critical hazards.
	<b>PL.913</b>	No known significant effects or critical hazards.
	<b>PL.914</b>	No known significant effects or critical hazards.
	<b>PL.915</b>	No known significant effects or critical hazards.

## Section 4. First aid measures

<b>Ingestion</b>	: PL.910	No known significant effects or critical hazards.
	PL.911	No known significant effects or critical hazards.
	PL.912	No known significant effects or critical hazards.
	PL.913	No known significant effects or critical hazards.
	PL.914	No known significant effects or critical hazards.
	PL.915	No known significant effects or critical hazards.

### Over-exposure signs/symptoms

<b>Eye contact</b>	: No known significant effects or critical hazards.
<b>Inhalation</b>	: No known significant effects or critical hazards.
<b>Skin contact</b>	: No known significant effects or critical hazards.
<b>Ingestion</b>	: No known significant effects or critical hazards.

### Indication of immediate medical attention and special treatment needed, if necessary

<b>Notes to physician</b>	: Treat symptomatically.
<b>Specific treatments</b>	: No specific treatment.
<b>Protection of first-aiders</b>	: No special protection is required.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

<b>Suitable extinguishing media</b>	: Use an extinguishing agent suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	: None known.

**Specific hazards arising from the chemical** : No specific fire or explosion hazard.

<b>Hazardous thermal decomposition products</b>	: Decomposition products may include the following materials: phosphorus oxides metal oxide/oxides
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**Special protective actions for fire-fighters** : No special measures are required.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

<b>For non-emergency personnel</b>	: Put on appropriate personal protective equipment.
<b>For emergency responders</b>	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

## Section 6. Accidental release measures

### Methods and materials for containment and cleaning up

- Spill** : Stop leak if without risk. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e. g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

### Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8).
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.

- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in a cool, dry location. Keep containers closed. Store at room temperature (15°C to 30°C).

## Section 8. Exposure controls/personal protection

### Control parameters

#### United States

##### Occupational exposure limits

None.

#### Canada

##### Occupational exposure limits

No exposure limit value known.

- Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

### Individual protection measures

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location.

- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

#### Skin protection

- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

## Section 8. Exposure controls/personal protection

- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Not required under normal conditions of use.

## Section 9. Physical and chemical properties

### Appearance

<b>Physical state</b>	: PL.910	Liquid. [Clear.]
	PL.911	Liquid. [Clear.]
	PL.912	Liquid. [Clear.]
	PL.913	Liquid. [Clear.]
	PL.914	Liquid. [Clear.]
	PL.915	Liquid. [Clear.]
<b>Color</b>	: PL.910	Colorless.
	PL.911	Colorless.
	PL.912	Colorless.
	PL.913	Colorless.
	PL.914	Colorless.
	PL.915	Colorless.
<b>Odor</b>	: Not available.	
<b>Odor threshold</b>	: Not available.	
<b>pH</b>	: PL.910	5
	PL.911	5.5
	PL.912	6
	PL.913	6.5
	PL.914	7
	PL.915	7.5
<b>Melting point</b>	: Not available.	
<b>Boiling point</b>	: Not available.	
<b>Flash point</b>	: PL.910	Not available.
	PL.911	Not available.
	PL.912	Not available.
	PL.913	Not available.
	PL.914	Not available.
	PL.915	Not available.
<b>Evaporation rate</b>	: Not available.	
<b>Flammability (solid, gas)</b>	: Not available.	
<b>Lower and upper explosive (flammable) limits</b>	: Not available.	
<b>Vapor pressure</b>	: Not available.	
<b>Vapor density</b>	: Not available.	
<b>Relative density</b>	: PL.910	Not available.
	PL.911	Not available.
	PL.912	Not available.
	PL.913	Not available.
	PL.914	Not available.
	PL.915	Not available.

## Section 9. Physical and chemical properties

<b>Solubility</b>	: PL.910	Soluble in water.
	PL.911	Soluble in water.
	PL.912	Soluble in water.
	PL.913	Soluble in water.
	PL.914	Soluble in water.
	PL.915	Soluble in water.
<b>Partition coefficient: n-octanol/water</b>	: Not available.	
<b>Auto-ignition temperature</b>	: Not available.	
<b>Decomposition temperature</b>	: Not available.	
<b>Viscosity</b>	: Not available.	
<b>Volatility</b>	: Not available.	

## Section 10. Stability and reactivity

<b>Reactivity</b>	: No specific test data related to reactivity available for this product or its ingredients.
<b>Chemical stability</b>	: The product is stable.
<b>Possibility of hazardous reactions</b>	: Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid</b>	: No specific data.
<b>Incompatible materials</b>	: Reactive or incompatible with the following materials: oxidizing materials.
<b>Hazardous decomposition products</b>	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

There is no data available.

#### Irritation/Corrosion

There is no data available.

#### Sensitization

There is no data available.

#### Carcinogenicity

There is no data available.

#### Specific target organ toxicity (single exposure)

There is no data available.

#### Specific target organ toxicity (repeated exposure)

There is no data available.

#### Aspiration hazard

There is no data available.

## Section 11. Toxicological information

**Information on the likely routes of exposure** : Dermal contact. Eye contact. Inhalation. Ingestion.

### Potential acute health effects

<b>Eye contact</b>	<b>: PL.910</b>	No known significant effects or critical hazards.
	<b>PL.911</b>	No known significant effects or critical hazards.
	<b>PL.912</b>	No known significant effects or critical hazards.
	<b>PL.913</b>	No known significant effects or critical hazards.
	<b>PL.914</b>	No known significant effects or critical hazards.
<b>Inhalation</b>	<b>: PL.910</b>	No known significant effects or critical hazards.
	<b>PL.911</b>	No known significant effects or critical hazards.
	<b>PL.912</b>	No known significant effects or critical hazards.
	<b>PL.913</b>	No known significant effects or critical hazards.
	<b>PL.914</b>	No known significant effects or critical hazards.
<b>Skin contact</b>	<b>: PL.910</b>	No known significant effects or critical hazards.
	<b>PL.911</b>	No known significant effects or critical hazards.
	<b>PL.912</b>	No known significant effects or critical hazards.
	<b>PL.913</b>	No known significant effects or critical hazards.
	<b>PL.914</b>	No known significant effects or critical hazards.
<b>Ingestion</b>	<b>: PL.910</b>	No known significant effects or critical hazards.
	<b>PL.911</b>	No known significant effects or critical hazards.
	<b>PL.912</b>	No known significant effects or critical hazards.
	<b>PL.913</b>	No known significant effects or critical hazards.
	<b>PL.914</b>	No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

<b>Eye contact</b>	: No known significant effects or critical hazards.
<b>Inhalation</b>	: No known significant effects or critical hazards.
<b>Skin contact</b>	: No known significant effects or critical hazards.
<b>Ingestion</b>	: No known significant effects or critical hazards.

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

<b>Potential immediate effects</b>	: No known significant effects or critical hazards.
<b>Potential delayed effects</b>	: No known significant effects or critical hazards.

#### Long term exposure

<b>Potential immediate effects</b>	: No known significant effects or critical hazards.
<b>Potential delayed effects</b>	: No known significant effects or critical hazards.

#### Potential chronic health effects

<b>General</b>	: No known significant effects or critical hazards.
<b>Carcinogenicity</b>	: No known significant effects or critical hazards.
<b>Mutagenicity</b>	: No known significant effects or critical hazards.
<b>Teratogenicity</b>	: No known significant effects or critical hazards.
<b>Developmental effects</b>	: No known significant effects or critical hazards.

## Section 11. Toxicological information

**Fertility effects** : No known significant effects or critical hazards.

**Numerical measures of toxicity**

**Acute toxicity estimates**

There is no data available.

## Section 12. Ecological information

**Toxicity**

There is no data available.

**Persistence and degradability**

There is no data available.

**Bioaccumulative potential**

There is no data available.

**Mobility in soil**

**Soil/water partition coefficient (K<sub>oc</sub>)** : There is no data available.

**Mobility** : There is no data available.

**Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

## Section 14. Transport information

	DOT	TDG	IMDG	IATA
<b>UN number</b>	Not regulated.	Not regulated.	Not regulated.	Not regulated.
<b>UN proper shipping name</b>	-	-	-	-
<b>Transport hazard class(es)</b>	-	-	-	-
<b>Packing group</b>	-	-	-	-
<b>Environmental hazards</b>	No.	No.	No.	No.
<b>Additional information</b>	-	-	-	-

**AERG** : Not applicable



## Section 14. Transport information

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** : Not available.

## Section 15. Regulatory information

**U.S. Federal regulations** : **TSCA 8(a) CDR Exempt/Partial exemption:** Not determined  
**United States inventory (TSCA 8b):** All components are listed or exempted.  
**Clean Water Act (CWA) 311:** Hydrogen Chloride; Sodium phosphate, dibasic; Sodium hydroxide

**Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)** : Not listed

**Clean Air Act Section 602 Class I Substances** : Not listed

**Clean Air Act Section 602 Class II Substances** : Not listed

**DEA List I Chemicals (Precursor Chemicals)** : Not listed

**DEA List II Chemicals (Essential Chemicals)** : Not listed

**SARA 302/304**

**Composition/information on ingredients**

Name	%	EHS	SARA 302 TPQ		SARA 304 RQ	
			(lbs)	(gallons)	(lbs)	(gallons)
<b>Buffer Solution PL.910</b>						
Hydrogen Chloride	0.025 - 0.1	Yes.	-	-	-	-
Sodium azide	0.01 - 0.025	Yes.	500	-	1000	-
<b>Buffer Solution PL.911</b>						
Hydrogen Chloride	0.025 - 0.1	Yes.	-	-	-	-
Sodium azide	0.01 - 0.025	Yes.	500	-	1000	-
<b>Buffer Solution PL.912</b>						
Sodium azide	0.01 - 0.025	Yes.	500	-	1000	-
<b>Buffer Solution PL.913</b>						
Sodium azide	0.01 - 0.025	Yes.	500	-	1000	-
<b>Buffer Solution PL.914</b>						
Sodium azide	0.01 - 0.025	Yes.	500	-	1000	-
<b>Buffer Solution PL.915</b>						
Sodium azide	0.01 - 0.025	Yes.	500	-	1000	-

**SARA 304 RQ** : 5000000 lbs / 2270000 kg

**SARA 311/312**

**Classification** : Not applicable.

**State regulations**

**Massachusetts** : None of the components are listed.

**New York** : None of the components are listed.

## Section 15. Regulatory information

**New Jersey** : None of the components are listed.

**Pennsylvania** : None of the components are listed.

**California Prop. 65**

No products were found.

**Canada**

**Canadian lists**

**Canadian NPRI** : None of the components are listed.

**CEPA Toxic substances** : None of the components are listed.

**Canada inventory** : All components are listed or exempted.

## Section 16. Other information

**History**

**Date of issue mm/dd/yyyy** : 08/15/2015

**Date of previous issue** : 05/30/2006

**Version** : 2

**Prepared by** : KMK Regulatory Services Inc.

**Key to abbreviations**

: ATE = Acute Toxicity Estimate  
BCF = Bioconcentration Factor  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IATA = International Air Transport Association  
IBC = Intermediate Bulk Container  
IMDG = International Maritime Dangerous Goods  
LogPow = logarithm of the octanol/water partition coefficient  
MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
UN = United Nations

**Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.