PRO-LAB DIAGNOSTICS

Date : 15/08/2015
Version : 2

SAFETY DATA SHEET

Buffer Solutions

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier

Product name : Buffer Solutions

Trade name	:		**Code**
		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

Product description : Not available.

Product type : Liquid.

Other means of identification : Not available.

1.2 Relevant identified uses of the substance or mixture and uses advised against

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

1.3 Details of the supplier of the safety data sheet

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

e-mail address of person responsible for this SDS : support@pro-lab.com

1.4 Emergency telephone number

National advisory body/Poison Centre

Emergency telephone number (with hours of operation) : +44 (0)151 353 1613 -Monday to Friday 9:00 am to 5:00 pm.
+44 (0)7714 429 646 -Outside the above hours.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Not classified.

The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

Classification according to Directive 1999/45/EC [DPD]

The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification :	**PL.910**	Not classified.
	PL.911	Not classified.
	PL.912	Not classified.
	PL.913	Not classified.
	PL.914	Not classified.
	PL.915	Not classified.
Physical/chemical hazards :	**PL.910**	Not applicable.
	PL.911	Not applicable.
	PL.912	Not applicable.
	PL.913	Not applicable.
	PL.914	Not applicable.
	PL.915	Not applicable.
Human health hazards :	**PL.910**	Not applicable.
	PL.911	Not applicable.
	PL.912	Not applicable.
	PL.913	Not applicable.
	PL.914	Not applicable.
	PL.915	Not applicable.
Environmental hazards :	**PL.910**	Not applicable.
	PL.911	Not applicable.
	PL.912	Not applicable.
	PL.913	Not applicable.
	PL.914	Not applicable.
	PL.915	Not applicable.

See Section 16 for the full text of the R phrases or H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 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.

Supplemental label elements : Not applicable.

SECTION 2: Hazards identification

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

Special packaging requirements

Containers to be fitted with child-resistant fastenings : Not applicable.

Tactile warning of danger : Not applicable.

2.3 Other hazards

Other hazards which do not result in classification : None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

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, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

SECTION 4: First aid measures

4.1 Description of 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.

Protection of first-aiders : No special protection is required.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact :	**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.
Inhalation :	**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.

SECTION 4: First aid measures

Skin contact	:	**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.
Ingestion	:	**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

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : Treat symptomatically.

Specific treatments : No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : No specific fire or explosion hazard.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
phosphorus oxides
metal oxide/oxides

5.3 Advice for firefighters

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

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : Put on appropriate personal protective equipment.

For emergency responders : If specialised 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".

6.2 Environmental precautions

: Avoid dispersal of spilt 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).

6.3 Methods and material 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. Dispose of via a licensed waste disposal contractor.

6.4 Reference to other sections

: See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 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.

7.2 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).

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific solutions : Not available.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

No exposure limit value known.

SECTION 8: Exposure controls/personal protection

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

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.

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.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state :	**PL.910**	Liquid. [Clear.]
	PL.911	Liquid. [Clear.]
	PL.912	Liquid. [Clear.]
	PL.913	Liquid. [Clear.]
	PL.914	Liquid. [Clear.]
	PL.915	Liquid. [Clear.]
Colour :	**PL.910**	Colourless.
	PL.911	Colourless.
	PL.912	Colourless.
	PL.913	Colourless.
	PL.914	Colourless.
	PL.915	Colourless.

SECTION 9: Physical and chemical properties

Odour	:	Not available.	
Odour threshold	:	Not available.	
pH	:	**PL.910**	5
		PL.911	5.5
		PL.912	6
		PL.913	6.5
		PL.914	7
		PL.915	7.5
Melting point/freezing point	:	Not available.	
Initial boiling point and boiling range	:	Not available.	
Flash point	:	PL.910	Not available.
		PL.911	Not available.
		PL.912	Not available.
		PL.913	Not available.
		PL.914	Not available.
		PL.915	Not available.
Evaporation rate	:	Not available.	
Flammability (solid, gas)	:	Not available.	
Upper/lower flammability or explosive limits	:	Not available.	
Vapour pressure	:	Not available.	
Vapour density	:	Not available.	
Relative density	:	PL.910	Not available.
		PL.911	Not available.
		PL.912	Not available.
		PL.913	Not available.
		PL.914	Not available.
		PL.915	Not available.
Solubility(ies)	:	**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.
Partition coefficient: n-octanol/ water	:	Not available.	
Auto-ignition temperature	:	Not available.	
Decomposition temperature	:	Not available.	
Viscosity	:	Not available.	
Explosive properties	:	Not available.	
Oxidising properties	:	Not available.	

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : The product is stable.

10.3 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : No specific data.

10.5 Incompatible materials : No specific data.

10.6 Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

There is no data available.

Acute toxicity estimates

Route	ATE value
Buffer Solution PL.910	
Inhalation (vapours)	3000 mg/L
Buffer Solution PL.911	
Inhalation (vapours)	3000 mg/L

Irritation/Corrosion

There is no data available.

Sensitisation

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.

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

Potential acute health effects

Eye contact :

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.

SECTION 11: Toxicological information

Inhalation	:	**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.
Skin contact	:	**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.
Ingestion	:	**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.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

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

Short term exposure

Potential immediate effects : No known significant effects or critical hazards.

Potential delayed effects : No known significant effects or critical hazards.

Long term exposure

Potential immediate effects : No known significant effects or critical hazards.

Potential delayed effects : No known significant effects or critical hazards.

Potential chronic health effects

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Other information : Not available.

SECTION 12: Ecological information

12.1 Toxicity

There is no data available.

12.2 Persistence and degradability

There is no data available.

12.3 Bioaccumulative potential

There is no data available.

12.4 Mobility in soil

Soil/water partition coefficient (K_{OC}) : There is no data available.

Mobility : There is no data available.

12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

12.6 Other adverse effects

: No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. 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. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions : This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.
Additional information	-	-	-	-

14.6 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.

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

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

Other EU regulations

Europe inventory : All components are listed or exempted.

Seveso Directive

This product is not controlled under the Seveso Directive.

SECTION 15: Regulatory information

15.2 Chemical Safety Assessment : This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Abbreviations and acronyms : ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number
vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Not classified.	

Full text of abbreviated H statements : Not applicable.

Full text of classifications [CLP/GHS] : Not applicable.

Full text of abbreviated R phrases : Not applicable.

Full text of classifications [DSD/DPD] : Not applicable.

History

Date of issue (dd/mm/yyyy) : 15/08/2015

Date of previous issue : 30/05/2006

Version : 2

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.