

Material Safety Data Sheet

Buffer Solutions

1 . Product and company identification

Common name	: Buffer Solutions	Code
Trade name	: 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
Material uses	: The buffer solutions are for use as quality control laboratory reagents to test the performance of Amniotest swabs.	
Supplier/Manufacturer	: 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	
In case of emergency	: 905-731-0300 –Monday to Friday 8:30 am to 5:00 pm Eastern Standard Time. 416-230-0692 –Outside the above hours.	
MSDS authored by:	: Kemika XXI Inc. + 1-450-435-7475	05/30/2006

2 . Hazards identification

Physical state	: Liquid. (Clear.)
Hazard status	: This material is classified as not hazardous under OSHA regulations in the United States and the WHMIS in Canada.
Emergency overview	: No specific hazard. USE WITH CARE. Follow good industrial hygiene practice.
Routes of entry	: Dermal contact. Eye contact. Inhalation. Ingestion.
Potential acute health effects	
Eyes	: No known significant effects or critical hazards.
Skin	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Potential chronic health effects	: Carcinogenic effects: Not classified or listed by IARC, NTP, OSHA, EU and ACGIH. Mutagenic effects: Not available. Teratogenic effects: Not available.

See toxicological information (section 11)

3 . Composition/information on ingredients

United States			
Name	CAS number	%	
No hazardous ingredient.			

4 . First aid measures

- Eye contact** : Check for and remove any contact lenses. In case of contact with eyes, rinse immediately with plenty of water. Get medical attention if symptoms occur.
- Skin contact** : Wash with soap and water. Get medical attention if symptoms occur.
- Inhalation** : If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms appear.
- Ingestion** : Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.
- Notes to physician** : No specific antidote. Medical staff must contact Poison Control Center.

5 . Fire-fighting measures

- Flammability of the product** : May be combustible at high temperature.
- Products of combustion** : These products are phosphates. Some metallic oxides.
- Extinguishing media**
 - Suitable** : Use an extinguishing agent suitable for the surrounding fire.
 - Not suitable** : None known.
- Special exposure hazards** : No specific hazard.
- 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.

6 . Accidental release measures

- Personal precautions** : Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment.
- Environmental precautions** : Avoid dispersal of spilled material, runoff and contact with soil, waterways, drains and sewers.
- Methods for cleaning up** : If emergency personnel are unavailable, contain spilled material. For small spills, add absorbent (soil may be used in the absence of other suitable materials), scoop up material and place in a sealable, liquid-proof container for disposal. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

7 . Handling and storage

- Handling** : Wash thoroughly after handling.
- Storage** : Keep container tightly closed. Keep container in a cool, well-ventilated area.

8 . Exposure controls/personal protection

Consult local authorities for acceptable exposure limits.

- Engineering measures** : No special ventilation requirements. Good general ventilation should be sufficient to control airborne levels. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.
- Personal protection**
 - Eyes** : Safety glasses.
 - Skin** : Lab coat.
 - Respiratory** : A respirator is not needed under normal and intended conditions of product use.
 - Hands** : Disposable vinyl gloves.



HMIS Code/Personal protective equipment : A

Personal protection in case of a large spill : Safety glasses, goggles or face shield. Impervious gloves. Full suit. Boots. Wear NIOSH-approved self-contained breathing apparatus or equivalent and full protective gear. Wash hands, forearms and face thoroughly after handling compounds and before eating, smoking and using the lavatory and at the end of the day. Follow good industrial hygiene practice.

9 . Physical and chemical properties

Physical state : Liquid. (Clear.)
pH : 5 to 7.5 [Acidic.]
Boiling/condensation point : The lowest known value is 100°C (212°F) (Water).
Melting/freezing point : May start to solidify at 0°C (32°F) based on data for: Water.
Relative density : Weighted average: 1.01 (Water = 1)
Vapor pressure : The highest known value is 2.3 kPa (17.5 mm Hg) (at 20°C) (Water).
Vapor density : The highest known value is 0.62 (Air = 1) (Water).
Evaporation rate : 0.36 (Water) compared with Butyl acetate.
Solubility : Easily soluble in cold water, hot water, methanol, acetone.

10 . Stability and reactivity

Stability and reactivity : The product is stable.
Incompatibility with various substances : Reactive with oxidizing materials and acids.
Hazardous polymerization : Will not occur.
Conditions of reactivity : Not available.

11 . Toxicological information

Acute Effects

Eyes : No known significant effects or critical hazards.
Skin : No known significant effects or critical hazards.
Inhalation : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.
Potential chronic health effects : Carcinogenic effects: Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.
Mutagenic effects: Not available.
Teratogenic effects: Not available.

12 . Ecological information

Environmental precautions : No known significant effects or critical hazards.
Products of degradation : These products are phosphates. Some metallic oxides.

13 . Disposal considerations

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

14 . Transport information

Regulatory information

UN/ IMDG/IATA DOT/TDG : Not regulated.

15 . Regulatory information

United States

HCS Classification : Not regulated.

U.S. Federal regulations : TSCA : All components listed.

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: No products were found.

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.

Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: Phosphoric acid, sodium salt; Hydrogen Chloride; Sodium hydroxide

Clean Air Act (CAA) 112 accidental release prevention: Hydrogen Chloride

Clean Air Act (CAA) 112 regulated flammable substances: No products were found.

Clean Air Act (CAA) 112 regulated toxic substances: Hydrogen Chloride

State regulations

: Rhode Island RTK hazardous substances: Hydrogen Chloride
 Pennsylvania RTK: Phosphoric acid, sodium salt: (environmental hazard, generic environmental hazard); Sodium azide: (environmental hazard, generic environmental hazard); Hydrogen Chloride: (environmental hazard); Sodium hydroxide: (environmental hazard, generic environmental hazard)
 Florida: Hydrogen Chloride
 Minnesota: Hydrogen Chloride
 Massachusetts RTK: Phosphoric acid, sodium salt; Sodium azide; Hydrogen Chloride; Sodium hydroxide
 New Jersey: Phosphoric acid, sodium salt; Sodium azide; Hydrogen Chloride; Sodium hydroxide
 California prop. 65: No products were found.

Canada

WHMIS (Canada) : Not regulated.

DSL : All components listed.

This product has been classified in accordance with the hazard criteria of the Canadian CPR and the United States OSHA. This MSDS contains all the information required by the CPR and OSHA, the American National Standard Institute (ANSI) Z400.1.

International lists : This product, (and its ingredients) is (are) listed on national inventories, or is (are) exempted from being listed, Australia (AICS), in Europe (EINECS/ELINCS), in Korea (TCCL), in Japan (METI), in the Philippines (RA6969).

16 . Other information

Hazardous Material Information System (U.S.A.) :

HMIS RATING

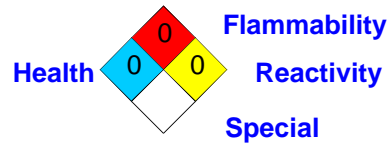
Health	0
Fire hazard	0
Physical Hazard	0
Personal protection	A

HAZARD RATINGS

4- Extreme
 3- Serious
 2- Moderate
 1- Slight
 0- Minimal

See section 8 for more detailed information on personal protection.

National Fire Protection Association (U.S.A.) :



References : ANSI Z400.1, MSDS Standard, 2004. - Manufacturer's Material Safety Data Sheet. - 29CFR Part1910.1200 OSHA MSDS Requirements. - 49CFR Table List of Hazardous Materials, UN#, Proper Shipping Names, PG. - Canada Gazette Part II, Vol. 122, No. 2. Registration SOR/88-64, 31 December 1987. Hazardous Products Act "Ingredient Disclosure List" - Canadian Transport of Dangerous Goods, Regulations and Schedules, Clear Language version 2005.

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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.