



## MATERIAL SAFETY DATA SHEET

Section 1. Company Identification and Product Information			
<b>Product Name or Identity:</b>	<b>Buffered Peptone Water (ISO) pH 7.0</b>		
<b>Supplier's Name:</b>	Solus Scientific Solutions Ltd	<b>Emergency Phone No.:</b>	+ 44 (0) 1623 429701
	Mansfield	<b>Fax No.:</b>	
	NG19 7JZ	<b>e-mail:</b>	info@solusscientific.com
<b>Date Prepared or Revised:</b>	March 2011	<b>Product code:</b> MED017-10KG	

Section 2. Composition / Information on Hazardous Ingredients			
<b>This product is a mixture of the substances listed below with the addition of nonhazardous materials.</b>			
Hazardous Components Specific Chemical Identity:	CAS-No.	%	Hazard Symbol
Sodium Phosphate	7558-79-4	17.5%	Xi (Irritant)
Sodium Chloride, NaCl	7647-14-5	25%	Xi (Irritant)
Potassium Phosphate	7758-11-4	7.5%	Xi (Irritant)

Section 3. Health Hazard Identification	
<b>Health Hazards:</b> <i>(Acute and Chronic)</i>	<b>Information pertaining to particular dangers for man and environment.</b> R 36 / 37 / 38, Irritating to eyes, respiratory system, and skin.

Section 4. First Aid Measures	
<b>Emergency / First Aid Procedures:</b>	<b>General Information:</b> No special measures required.
	<b>Ingestion:</b> If swallowed, seek medical attention if symptoms occur. Show physician product label or MSDS.
	<b>Inhalation:</b> If inhaled, supply fresh air or oxygen. Seek medical attention if breathing becomes labored or difficult.
	<b>Eye Contact:</b> Rinse opened eye for at least 15 minutes under running water, lifting lower and upper eyelids occasionally. Seek medical attention.
	<b>Skin Contact:</b> Remove contaminated clothing. Immediately wash with plenty of soap and water for at least 15 minutes. Wash clothing before reuse. Seek medical attention if irritation develops.

Section 5. Fire and Explosion Hazard Data	
<b>Flash Point</b> (Method Used): N/A	<b>Flammable Limits:</b> LEL – N/A, UEL – N/A
<b>Extinguishing Media:</b> Use CO <sub>2</sub> , ABC multipurpose dry chemical, or water spray. Fight larger fires with water spray or alcohol resistant foam.	
<b>Protective Equipment:</b> No special measures required.	
<b>Unusual Fire and Explosion Hazards:</b> During heating or in case of fire, poisonous gases may be produced.	

Section 6. Accidental Release Measures
<b>Personal Precautions:</b> Wear suitable protective clothing. Remove contaminated clothing immediately. Avoid inhalation, contact with eyes and skin. Prevent formation of dust.
<b>Environmental Precautions:</b> Prevent dispersion of material. Wipe up with damp sponge or mop.
<b>Clean-up Methods:</b> Absorb material, ventilate area, and wash spill site after material has been cleaned up.



### Section 7. Handling and Storage

**Handling:** Protect against physical damage. Ensure good ventilation / exhaustion.

**Storage:** Requirements to be met by storerooms and receptacles: 2 - 30°C

Do not store together with oxidizing agents. Store in cool, dry conditions in well sealed containers.

**Other Precautions:** No special measures required.

### Section 8. Exposure Controls / Personal Protection

**Components with limit values that require monitoring:** This product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**OSHA-PEL:** N/A

**REL:** N/A

**TLV:** N/A

**Additional Information:** Personal Protection listed below are general requirements for laboratory personnel. Follow the usual precautionary measures for handling chemicals / powder. Avoid contact with eyes, skin, and clothing.

**Personal Protective Equipment:**

Keep away from food, beverages, and feed.

Wash hands before and after entering laboratory.

**Breathing Equipment:** In case of brief exposure, use a chemical fume hood or a NIOSH/MSHA-approved respiratory.

**Hand Protection:** Use chemical resistant gloves.

**Eye Protection:** Wear safety glasses or goggles.

**Body Protection:** Wear lab coat or other protective work clothing.

### Section 9. Physical and Chemical Properties

**Appearance:** Homogenous free-flowing powder, light beige.

**Boiling Point:** Not determined

**Density:** Not determined

**Flash Point:** Not applicable

**Melting Point:** Not determined

**Auto Igniting:** Product is not self-igniting

**Solubility in Water:** Soluble

**Danger of explosion:** Product does not present an explosion hazard.

**pH:** 7.0 ± 0.2 @ 25°C

**Solvent Content:** Organic solvents – 0.0%

**Solids Content:** 100.0%

### Section 10. Stability and Reactivity

**Stability:**

Unstable

Stable

X

Conditions to Avoid: No decomposition if used according to specifications.

**Incompatibility (Materials to Avoid):** Incompatible with strong oxidizers and acids.

**Hazardous Decomposition or Byproducts:** Chlorine, Phosphorus oxides, and Carbon dioxide.

**Hazardous Polymerization:**

May Occur

Will Not Occur

X

No dangerous reactions known.

### Section 11. Toxicological Information

**LD/LC50 values that are relevant:** N/A

**Carcinogenicity Classification:**

**IARC (International Agency for Research on Cancer)** - Not listed

**NTP (National Toxicology Program)** - Not listed

**Irritant:** Irritant to eyes, skin, and mucous membranes.

**Sensitization:** No sensitizing effects known.

**Subacute to chronic toxicity:** Target organs: Respiratory tract, eyes, kidneys, and skin.

**Additional toxicological information:** Irritant.

**Ecotoxicity Tests:**

Generally not hazardous to water. The ecological effects have not been thoroughly investigated, but currently none have been identified.

**Section 13. Disposal Considerations**

**Waste Disposal Method:** Dispose in accordance with all applicable federal (40 CFR 261.3), state, and local environmental regulations. Smaller quantities can be disposed of with solid waste.

RCRA Hazardous Waste: No

Contact a licensed professional waste disposal service to dispose of this material if questions arise.

**Container Information:** Do not remove labels from containers until they have been cleaned.

**Section 14. Transport Information****DOT Regulations:**

Not Regulated

**Land Transport ADR/RID (cross-border):**

Not Regulated

**Maritime Transport IMDG:**

Not Regulated

**Marine Pollutant:** No

**Air Transport ICAO-TI and IATA-DGR:**

Not Regulated

**Section 15. Regulatory Information****EU Regulations, Hazard Symbol(s):**

**Sodium Phosphate:** Xi (Irritant)

**Sodium Chloride:** Xi (Irritant)

**Potassium Phosphate:** Xi (Irritant)

**Risk Phrases:**

R 36 / 37 / 38, Irritating to eyes, respiratory system, and skin.

**Safety Phrases:**

S 7, Keep container tightly closed.

S 22, Do not breathe dust.

S 26, In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 36, Wear suitable protective clothing.

**Section 16. Other Information**

This document is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. Solus Scientific Solutions Ltd. shall not be held liable for any damage resulting from handling or from contact with the above product. These suggestions should not be confused with state, municipal or insurance requirements, and constitute NO WARRANTY.