OXFORD LAB FINE CHEM LLP

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Oxford
Range of
Laboratory Chemicals

# MATERIAL SAFETY DATA SHEET

## BUFFER SOLUTION pH 11.0

**MSDS CAS: -**

## Section 1: Chemical Product and Company Identification

**Section 1: Chemical Product**

**Product Name: BUFFER SOLUTION pH 11.0**
**CAS#: - Not available.**
**Synonym: Not available.**
**Chemical Name: Not available.**
**Chemical Formula: Not available.**
**Brand: OXFORD**

**Details Of The Supplier Of The Safety Data Sheet:**

**Company identification:** **OXFORD LAB FINE CHEM LLP**
**Unit. No. 12, 1st Floor, Neminath Industrial Estate No. 6,**
**Navghar, Vasai (East). Palghar - 401 210.**
**Mumbai, Maharashtra, INDIA.**
**Tel: 91-250-2390989**
**Tel/Fax: 91-250-2390032**

## Section 2: Composition and Information on Ingredients

**Composition:**

| Name | CAS # | % by Weight |
|---|---|---|
| Water | 7732-18-5 | 99.64 |
| Sodium Phosphate Dibasic Anhydrous | 7558-79-4 | 0.35 |
| Sodium Hydroxide | 1310-73-2 | 0.01 |

## Section 3: Hazards Identification

**Potential Acute Health Effects:** Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.
**Potential Chronic Health Effects:** Non-corrosive for skin. Non-irritant for skin. Non-sensitizer for skin. Non-permeator by skin. Non-irritating to the eyes. Non-hazardous in case of ingestion. Non-hazardous in case of inhalation. CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance is toxic to lungs, mucous membranes. Repeated or prolonged exposure to the substance can produce target organs damage.

## Section 4: First Aid Measures

**Eye Contact:** Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention if irritation occurs.
**Skin Contact:** Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used.
**Serious Skin Contact:** Not available.
**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
**Serious Inhalation:** Not available.
**Ingestion:** Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.
**Serious Ingestion:** Not available.

## Section 5: Fire and Explosion Data

**Flammability of the Product:** Non-flammable.
**Auto-Ignition Temperature:** Not applicable.
**Flash Points:** Not applicable.
**Flammable Limits:** Not applicable.
**Products of Combustion:** Not available.
**Fire Hazards in Presence of Various Substances:** Not applicable.
**Explosion Hazards in Presence of Various Substances:** Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

## Section 5: Fire and Explosion Data (Continued)

**Fire Fighting Media and Instructions:** Not applicable.
**Special Remarks on Fire Hazards:** Not available.
**Special Remarks on Explosion Hazards:** Not available.

## Section 6: Accidental Release Measures

**Small Spill:** Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. If necessary: Neutralize the residue with a dilute solution of sodium carbonate. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
**Large Spill:** Absorb with an inert material and put the spilled material in an appropriate waste disposal. Neutralize the residue with a dilute solution of sodium carbonate. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

## Section 7: Handling and Storage

**Precautions:** No specific safety phrase has been found applicable for this product.
**Storage:** Keep container tightly closed. Keep container in a cool, well-ventilated area.

## Section 8: Exposure Controls/Personal Protection

**Engineering Controls:** Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.
**Personal Protection:** Safety glasses. Lab coat.
**Personal Protection in Case of a Large Spill:** Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
**Exposure Limits:** Sodium borate TWA: 0.31 TWA: 5 from ACGIH (TLV) [United States] [1995] Consult local authorities for acceptable exposure limits.

## Section 9: Physical and Chemical Properties

| | |
|---|---|
| **Physical state and appearance** | **: Liquid.** |
| **Odor** | **: Odorless.** |
| **Taste** | **: Not available.** |
| **Molecular Weight** | **: Not applicable.** |
| **Color** | **: Clear Colorless.** |
| **pH (1% soln/water)** | **: Acidic.** |
| **Boiling Point** | **: The lowest known value is 100°C (212°F) (Water).** |
| **Melting Point** | **: Not available.** |
| **Critical Temperature** | **: Not available.** |
| **Specific Gravity** | **: The only known value is 1 (Water = 1) (Water).** |
| **Vapor Pressure** | **: The highest known value is 2.3 kPa (@ 20°C) (Water).** |
| **Vapor Density** | **: The highest known value is 0.62 (Air = 1) (Water).** |
| **Volatility** | **: Not available.** |
| **Odor Threshold** | **: Not available.** |
| **Water/Oil Dist. Coeff.** | **: Not available.** |
| **Ionicity (in Water)** | **: Not available.** |
| **Dispersion Properties** | **: See solubility in water, methanol.** |
| **Solubility** | **: Easily soluble in cold water, hot water. Partially soluble in methanol.** |

## Section 10: Stability and Reactivity Data

**Stability:** **The product is stable.**
**Instability Temperature:** **Not available.**
**Conditions of Instability:** **Not available.**
**Incompatibility with various substances:** **Not available.**
**Corrosivity:** **Slightly corrosive in presence of steel, of aluminum, of copper. Non-corrosive in presence of glass.**
**Special Remarks on Reactivity:** **Reacts violently with water especially when water is added to the product. (Hydrogen chloride)**
**Special Remarks on Corrosivity:** **Not available.**
**Polymerization:** **Will not occur.**

## Section 11: Toxicological Information

**Routes of Entry:** Not available.
**Toxicity to Animals:** LD50: Not available. LC50: Not available.
**Chronic Effects on Humans:** Not available.
**Other Toxic Effects on Humans:** Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.
**Special Remarks on Toxicity to Animals:** Not available.
**Special Remarks on Chronic Effects on Humans:** Not available.
**Special Remarks on other Toxic Effects on Humans:** Ingestion of 5-10 grams has produced severe vomiting, diarrhea, shock and death. (Sodium borate)

## Section 12: Ecological Information

**Ecotoxicity:** Not available.
**BOD5 and COD:** Not available.
**Products of Biodegradation:** Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
**Toxicity of the Products of Biodegradation:** Not available.
**Special Remarks on the Products of Biodegradation:** Not available.

## Section 13: Disposal Considerations

**Waste Disposal:**

## Section 14: Transport Information

**Land transport (ADR-RID)**

**General information** : Not regulated.

**Sea transport (IMDG)**

**General information** : Not regulated.

# Section 14: Transport Information (Continued)

**Air transport (ICAO-IATA)**

**General information** : **Not regulated.**

# Section 15: Other Regulatory Information

**Federal and State Regulations:** **Pennsylvania RTK: Sodium borate; Hydrochloric acid Massachusetts RTK: Sodium borate; Hydrochloric acid TSCA 8(b) inventory: Sodium borate; Hydrochloric acid; Water SARA 302/304/311/312 extremely hazardous substances: Hydrochloric acid SARA 313 toxic chemical notification and release reporting: Hydrochloric acid 0.17% CERCLA: Hazardous substances.: Hydrochloric acid;**

**Other Regulations:** **OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).**

**Other Classifications:**

**WHMIS (Canada):** **CLASS D-2A: Material causing other toxic effects (VERY TOXIC).**

**DSCL (EEC):** **This product is not classified according to the EU regulations.**

**HMIS (U.S.A.):**

**Health Hazard:** **1**

**Fire Hazard:** **0**

**Reactivity:** **0**

**Personal Protection:** **a**

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

**Health:** **1**

**Flammability:** **0**

**Reactivity:** **0**

**Specific hazard:**

**Protective Equipment:** **Not applicable. Lab coat. Wear appropriate respirator when ventilation is inadequate. Safety glasses.**

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# Section 16 - Additional Information

**References: Not available.**

**Other Special Considerations: Not available.**

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