Material Safety Data Sheet
Buffer Solution pH 7.0 (Color-Coded Yellow)

ACC# 41138

Section 1 - Chemical Product and Company Identification

MSDS Name: Buffer Solution pH 7.0 (Color-Coded Yellow)
Catalog Numbers: NC9200577, SB107-20, SB107-4, SB107-500, SB107-500LC
Synonyms: None.
Company Identification:
Fisher Scientific
1 Reagent Lane
Fair Lawn, NJ 07410
For information, call: 201-796-7100
Emergency Number: 201-796-7100
For CHEMTREC assistance, call: 800-424-9300
For International CHEMTREC assistance, call: 703-527-3887

Section 2 - Composition, Information on Ingredients

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Chemical Name</th>
<th>Percent</th>
<th>EINECS/ELINCS</th>
</tr>
</thead>
<tbody>
<tr>
<td>7732-18-5</td>
<td>Water</td>
<td>99.18</td>
<td>231-791-2</td>
</tr>
<tr>
<td>7778-77-0</td>
<td>Potassium phosphate monobasic</td>
<td>0.7</td>
<td>231-913-4</td>
</tr>
<tr>
<td>1310-73-2</td>
<td>Sodium hydroxide</td>
<td>0.1</td>
<td>215-185-5</td>
</tr>
<tr>
<td>1934-21-0</td>
<td>FD&amp;C Yellow 5</td>
<td>0.0-0.02</td>
<td>217-699-5</td>
</tr>
</tbody>
</table>

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: yellow liquid.
Caution! May cause irritation. This is expected to be a low hazard for usual industrial handling.
Target Organs: None.

Potential Health Effects
Eye: May cause mild eye irritation.
Skin: May cause skin irritation.
Ingestion: Low hazard for usual industrial handling. May cause gastric disturbances and electrolytic imbalance.
Inhalation: May cause respiratory tract irritation. Low hazard for usual industrial handling.
Chronic: None

Section 4 - First Aid Measures

Eyes: Gently lift eyelids and flush continuously with water. If irritation develops, get medical aid.
Skin: Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.
Ingestion: Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water. Get medical aid if irritation or symptoms occur.
Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration.
If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

Notes to Physician: Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Substance is noncombustible. 

Extinguishing Media: Substance is noncombustible; use agent most appropriate to extinguish surrounding fire. 

Flash Point: Not applicable. 

Autoignition Temperature: Not applicable. 

Explosion Limits, Lower: Not available. 

Upper: Not available. 

NFPA Rating: (estimated) Health: 1; Flammability: 0; Instability: 0

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8. 

Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container.

Section 7 - Handling and Storage

Handling: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Avoid contact with eyes. Keep container tightly closed. Use with adequate ventilation. 

Storage: Store in a cool, dry place. No special precautions indicated.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Good general ventilation should be sufficient to control airborne levels. Use adequate ventilation to keep airborne concentrations low. 

Exposure Limits

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>NIOSH</th>
<th>OSHA - Final PELs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>none listed</td>
<td>none listed</td>
<td>none listed</td>
</tr>
<tr>
<td>Potassium phosphate monobasic</td>
<td>none listed</td>
<td>none listed</td>
<td>none listed</td>
</tr>
<tr>
<td>Sodium hydroxide</td>
<td>2 mg/m3 Ceiling</td>
<td>10 mg/m3 IDLH</td>
<td>2 mg/m3 TWA</td>
</tr>
<tr>
<td>FD&amp;C Yellow 5</td>
<td>none listed</td>
<td>none listed</td>
<td>none listed</td>
</tr>
</tbody>
</table>

OSHA Vacated PELs: Water: No OSHA Vacated PELs are listed for this chemical. Potassium phosphate monobasic: No OSHA Vacated PELs are listed for this chemical. Sodium hydroxide: No OSHA Vacated PELs are listed for this chemical. FD&C Yellow 5: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes: Wear chemical splash goggles. 

Skin: Wear butyl rubber gloves to prevent skin exposure. 

Clothing: Protective garments not normally required. 

Respirators: Respirator protection is not normally required.

Section 9 - Physical and Chemical Properties
Physical State: Liquid
Appearance: yellow
Odor: odorless
pH: 7.00 @ 25°C
Vapor Pressure: 760 mm Hg @ 20 deg C
Vapor Density: Not available.
Evaporation Rate: Not available.
Viscosity: Not available.
Boiling Point: 100 deg C
Freezing/Melting Point: 0 deg C
Decomposition Temperature: Not available.
Solubility: Soluble in water
Specific Gravity/Density: 1.0
Molecular Formula: Mixture
Molecular Weight: Not available.

Section 10 - Stability and Reactivity

Chemical Stability: Stable.
Conditions to Avoid: None reported.
Incompatibilities with Other Materials: None reported.
Hazardous Decomposition Products: None.
Hazardous Polymerization: Has not been reported.

Section 11 - Toxicological Information

RTECS#: 
CAS# 7732-18-5: ZC0110000
CAS# 7778-77-0: TC6615500
CAS# 1310-73-2: WB4900000
CAS# 1934-21-0: UQ6400000
LD50/LC50:
CAS# 7732-18-5:
  Oral, rat: LD50 = >90 mL/kg;

CAS# 7778-77-0:
  Skin, rabbit: LD50 = >4640 mg/kg;

CAS# 1310-73-2:
  Draize test, rabbit, eye: 400 ug Mild;
  Draize test, rabbit, eye: 1% Severe;
  Draize test, rabbit, eye: 50 ug/24H Severe;
  Draize test, rabbit, eye: 1 mg/24H Severe;
  Draize test, rabbit, skin: 500 mg/24H Severe;

CAS# 1934-21-0:
  Oral, mouse: LD50 = 12750 mg/kg;

Carcinogenicity:
CAS# 7732-18-5: Not listed by ACGIH, IARC, NTP, or CA Prop 65.
CAS# 7778-77-0: Not listed by ACGIH, IARC, NTP, or CA Prop 65.
CAS# 1310-73-2: Not listed by ACGIH, IARC, NTP, or CA Prop 65.
CAS# 1934-21-0: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

**Epidemiology:** No information available.

**Teratogenicity:** No information available.

**Reproductive Effects:** No information available.

**Mutagenicity:** No information available.

**Neurotoxicity:** No information available.

**Other Studies:**

### Section 12 - Ecological Information

**Ecotoxicity:** No data available. No information available.

**Environmental:** No information found.

**Physical:** No information found.

**Other:** No information available.

### Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

**RCRA P-Series:** None listed.

**RCRA U-Series:** None listed.

### Section 14 - Transport Information

<table>
<thead>
<tr>
<th></th>
<th>US DOT</th>
<th>Canada TDG</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Shipping Name:</strong></td>
<td>Not regulated as a hazardous material</td>
<td>No information available.</td>
</tr>
<tr>
<td><strong>Hazard Class:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>UN Number:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Packing Group:</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Section 15 - Regulatory Information

**US FEDERAL**

**TSCA**
- CAS# 7732-18-5 is listed on the TSCA inventory.
- CAS# 7778-77-0 is listed on the TSCA inventory.
- CAS# 1310-73-2 is listed on the TSCA inventory.
- CAS# 1934-21-0 is listed on the TSCA inventory.

**Health & Safety Reporting List**
- None of the chemicals are on the Health & Safety Reporting List.

**Chemical Test Rules**
- None of the chemicals in this product are under a Chemical Test Rule.

**Section 12b**
- None of the chemicals are listed under TSCA Section 12b.

**TSCA Significant New Use Rule**
- None of the chemicals in this material have a SNUR under TSCA.
CERCLA Hazardous Substances and corresponding RQs
   CAS# 1310-73-2: 1000 lb final RQ; 454 kg final RQ
SARA Section 302 Extremely Hazardous Substances
   None of the chemicals in this product have a TPQ.
SARA Codes
   CAS # 7778-77-0: immediate.
   CAS # 1310-73-2: immediate, reactive.
   CAS # 1934-21-0: immediate.
Section 313
   No chemicals are reportable under Section 313.
Clean Air Act:
   This material does not contain any hazardous air pollutants.
   This material does not contain any Class 1 Ozone depletors.
   This material does not contain any Class 2 Ozone depletors.
Clean Water Act:
   CAS# 1310-73-2 is listed as a Hazardous Substance under the CWA.
   None of the chemicals in this product are listed as Priority Pollutants under the CWA.
   None of the chemicals in this product are listed as Toxic Pollutants under the CWA.
OSHA:
   None of the chemicals in this product are considered highly hazardous by OSHA.
STATE
   CAS# 7732-18-5 is not present on state lists from CA, PA, MN, MA, FL, or NJ.
   CAS# 7778-77-0 is not present on state lists from CA, PA, MN, MA, FL, or NJ.
   CAS# 1310-73-2 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.
   CAS# 1934-21-0 is not present on state lists from CA, PA, MN, MA, FL, or NJ.
California Prop 65
   California No Significant Risk Level: None of the chemicals in this product are listed.
European/International Regulations
European Labeling in Accordance with EC Directives
Hazard Symbols:
   Not available.
Risk Phrases:
Safety Phrases:
   S 24/25 Avoid contact with skin and eyes.
WGK (Water Danger/Protection)
   CAS# 7732-18-5: No information available.
   CAS# 7778-77-0: 1
   CAS# 1310-73-2: 1
   CAS# 1934-21-0: 1
Canada - DSL/NDSL
   CAS# 7732-18-5 is listed on Canada's DSL List.
   CAS# 7778-77-0 is listed on Canada's DSL List.
   CAS# 1310-73-2 is listed on Canada's DSL List.
   CAS# 1934-21-0 is listed on Canada's DSL List.
Canada - WHMIS
   This product has a WHMIS classification of Not controlled..
   This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.
Canadian Ingredient Disclosure List
   CAS# 1310-73-2 is listed on the Canadian Ingredient Disclosure List.

Section 16 - Additional Information
MSDS Creation Date: 11/19/1998
Revision #9 Date: 2/15/2008

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.