MATERIAL SAFETY DATA SHEET

Buffer Solution, pH 7 (Yellow)

SECTION 1 . Product and Company Identification
Product Name and Synonym: Buffer Solution, pH 7 (Yellow)
Product Code: 147-30
Material Uses: OFI Testing Equipment, Inc.
Manufacturer: 11302 Steeplecrest Drive
Houston, TX 77065 USA
Phone: (713) 880-9885
Fax: (713) 880-9886
Entry Date : 5/6/2010
Print Date: 7/28/2010
24 Hour Emergency Assistance : Chemtrec 800-424-9300
Canutec 613-996-6666

SECTION 2 HAZARD IDENTIFICATION
Generally not hazardous in normal handling, however good laboratory practices should always be used. Avoid long term exposure to skin or by inhalation.

Emergency Overview: Caution! May be harmful if swallowed. May cause irritation to skin and eyes.

Inhalation: No adverse health effects expected from inhalation.

Ingestion: Large oral doses may cause irritation to the gastrointestinal tract.

Skin: May cause mild irritation and redness.

Eye Contact: May cause mild irritation, possible reddening.

Chronic Exposure: No information found.

Aggravated by Exposure: No information found.

SECTION 3 MIXTURE COMPONENTS

<table>
<thead>
<tr>
<th>SARA 313</th>
<th>Component</th>
<th>CAS Number</th>
<th>Percent Comp.</th>
<th>Dimension</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Potassium Phosphate Monobasic</td>
<td>CAS# 7778-77-0</td>
<td>0.68%</td>
<td>W/V</td>
<td>None Established</td>
</tr>
<tr>
<td>✔️</td>
<td>Sodium Hydroxide</td>
<td>CAS# 1310-73-2</td>
<td>0.01%</td>
<td>W/V</td>
<td>OSHA PEL 2 mg/m³ ACGIH 2mg/m³</td>
</tr>
<tr>
<td></td>
<td>Water, Deionized ASTM Type II</td>
<td>CAS# 7732-18-5</td>
<td>Balance</td>
<td>V/V</td>
<td>None Established</td>
</tr>
</tbody>
</table>

SECTION 4 FIRST AID MEASURES
Generally not hazardous in normal handling, however good laboratory practices should always be used. Avoid long term exposure to skin or by inhalation.

FIRST AID: 
SKIN: Wash exposed area with soap and water. If irritation persists, seek medical attention.
Buffer Solution, pH 7 (Yellow)

EYES: Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Seek Medical Aid. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

INGESTION: If swallowed, induce vomiting immediately after giving two glasses of water. Never give anything by mouth to an unconscious person.

SECTION 5  FIRE FIGHTING MEASURES

Fire Extinguisher Type: Any means suitable for extinguishing surrounding fire
Fire / Explosion Hazards: None
Fire Fighting Procedure: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and clothing.

SECTION 6  ACCIDENTAL RELEASE MEASURES

Absorb spill with inert material. Flush excess down drain.
Ventilate area of Leak or Spill. Keep Unnecessary and Unprotected People away from the area of Spill. Wear Appropriate Personal Protective Equipment as Specified in Section 8. Contain and Recover Liquid when Possible. Use Non-Sparking Tools and Equipment. Collect Liquid in an Appropriate Container or Absorb with an Inert Material (e.g., Vermiculite, Dry Sand, Earth). Do Not use Combustible Materials, such as Saw Dust. Do Not Flush to Sewer! US Regulations (CERCLA) Require Reporting Spills and Releases to Soil, Water and Air in Excess of Reportable Quantities.

SECTION 7  HANDLING AND STORAGE

Store in a cool dry place. This Material is not considered hazardous. Handle using safe laboratory practices.

SECTION 8  EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: None required
Ventilation
Local Exhaust ☑
Mechanical □
Protective Gloves: Gloves to prevent skin exposure as rubber or vinyl
Eye Protection: Splash Goggles
Other Protective Equipment: Use safe laboratory handling procedures.

SECTION 9  PHYSICAL AND CHEMICAL PROPERTIES

Melting Point: ~0°C
Boiling Point: ~100°C
Vapor Pressure: Information not available
Vapor Density: Information not available
Percent Volatile by Volume: >98
Evaporation Rate: Information not available
Evaporation Standard
Auto Ignition Temp: Not applicable
Buffer Solution, pH 7 (Yellow)

Solubility in Water: Soluble
Lower Flamm. Limit in Air: Not applicable
Appearance /Odors: Clear, yellow, odorless liquid
Upper Flamm. Limit in Air: Not applicable
Flash Point: Not flammable
Specific Gravity: ~ 1

SECTION 10  STABILITY AND REACTIVITY INFORMATION

Stability: Stable
Conditions to Avoid: High temperatures
Materials to Avoid: Concentrated Acids and Bases, Water reactive materials.
Hazardous Decomposition Products: None known
Hazardous polymerization: Will Not Occur
Conditions to Avoid: None known

SECTION 11  Toxicological Information

For Sodium Phosphate, Dibasic: 17 gm/kg oral rat LD50; Standard Draize Irritation Test (rabbit, 24 H, 500 mg) mild skin and mild eye.
For Potassium Phosphate Monobasic: >4640 mg/kg skin rabbit LD50
\( ^\text{Cancer Lists} \)
---NTP Carcinogen---
Ingred Potassium Phosphate Monobasic 7778-7770
Sodium Phosphate, Dibasic (7558-79-4)
Known NO NO
Anticipated NO NO
IARC Category NONE NONE

SECTION 12  Ecological Information

No Information Found.

SECTION 13  Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

SECTION 14  Transport Information

DOT Classification: Not Regulated

DOT Regulations may change from time to time. Please consult the most recent D.O.T. regulations.

SECTION 15  Regulatory Information

Chemical Inventory Status –
Part 1: Ingredient
Potassium Phosphate Monobasic (7778-77-0)
Sodium Phosphate, Dibasic (7558-79-4)
TSCA Yes Yes
EC Yes Yes
Japan YES Yes
Australia Yes Yes

Chemical Inventory Status –
Part 2: Ingredient
Potassium Phosphate Monobasic (7778-77-0)
Buffer Solution, pH 7 (Yellow)

Sodium Phosphate, Dibasic (7558-79-4)
Korea: Yes  Yes
DSL: Yes  Yes
NDSL: NO  NO
Phil.: Yes  Yes

Federal, State & International Regulations –
Part 1: Ingredient.
Potassium Phosphate Monobasic (7778-77-0)
Sodium Phosphate, Dibasic (7558-79-4)
RQ: NO  No
TPQ: NO  Yes
List: NO  No
Chemical Catg: No  No

Federal, State & International Regulations –
Part 2: Ingredient
Potassium Phosphate Monobasic (7778-77-0)
Sodium Phosphate, Dibasic (7558-79-4)
CERCLA: NO  5000
261.33: No  No
8(d): No  No

Chemical Weapons Convention: No
TSCA 12 (b): No
CDTA: NO Mixture/Liquid
SARA 311/312: Acute: Yes
Chronic: NO
Fire: No
Pressure: No
Reactivity: No
Australian Hazchem Code: None
Poison Schedule: None allocated
WHIMIS: MSDS contains all of the information required by the CPR.

SECTION 16  Additional Information


Flammability

Health

Reactivity

NFPA

Revisions

7/28/2010  0.1  updated msds to 16 section from 10 section msds. STN

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