

# 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:

Manufacturer:

OFI Testing Equipment, Inc.  
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

|                     |        |                      |      |         |
|---------------------|--------|----------------------|------|---------|
| Health:             | 1      |                      |      |         |
| Flammability:       | 0      |                      |      |         |
| Reactivity:         | 0      |                      |      |         |
| Hazard Rating:      |        |                      |      |         |
| Least               | Slight | Moderate             | High | Extreme |
| 0                   | 1      | 2                    | 3    | 4       |
| NA = Not Applicable |        | NE = Not Established |      |         |

## 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

| SARA 313                            | Component                     | CAS Number     | Percent Comp. | Dimension | Exposure Limits   |
|-------------------------------------|-------------------------------|----------------|---------------|-----------|---|
| <input type="checkbox"/>            | Potassium Phosphate Monobasic | CAS# 7778-77-0 | 0.68%         | W/V       | None Established  |
| <input checked="" type="checkbox"/> | Sodium Hydroxide              | CAS# 1310-73-2 | 0.01%         | W/V       | OSHA PEL 2<br>mg/m <sup>3</sup> ACGIH<br>2mg/m <sup>3</sup> |
| <input type="checkbox"/>            | Water, Deionized ASTM Type II | CAS# 7732-18-5 | Balance       | V/V       | None Established  |

## 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                    | Percent Volatile by Volume: | > 98                      |
| Boiling Point:  | ~ 100 °C                  | Evaporation Rate            | Information not available |
| Vapor Pressure: | Information not available | Evaporation Standard        |                           |
| Vapor Density:  | Information not available | 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  
    \Cancer Lists\  
    ---NTP Carcinogen---  
Ingrid Potassium Phosphate Monobasic 777-8770  
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

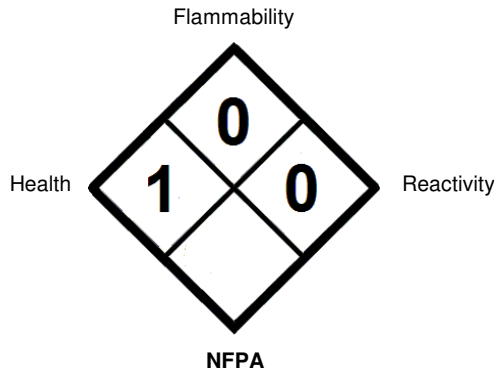
Federal, State & International Regulations –  
Part 1: Ingredient.  
Potassium Phosphate Monobasic (7778-77-0)  
Sodium Phosphate, Dibasic (7558-79-4)  
RQ NO No  
TPQ NO Yes  
List NO No  
Chemical Catg No No

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  
WHMIS:MSDS contains all of the information required by the CPR.

**SECTION 16 Additional Information**

Conditions aggravated/target organs: None known. Acute: Essentially non-hazardous. Possible irritation of eyes/stomach. Chronic: none known.



**Revisions**

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

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