

# **Section 1 - Chemical Product and Company Identification**

### MSDS Name:

Buffer Solutions pH 6.0 to 8.0

#### **Catalog Numbers:**

LC12330, LC12350, LC12370, LC12380, LC12390, LC12400, LC12410, LC12420, LC18520, LC18560

### Synonyms:

Phosphate Buffer Solutions, pH Adjusted

### **Company Identification:**

LabChem Inc

200 William Pitt Way

Pittsburgh, PA 15238

### **Company Phone Number:**

(412) 826-5230

### **Emergency Phone Number:**

(800) 424-9300

### **CHEMTREC Phone Number:**

(800) 424-9300 or 011-703-527-3887

## Section 2 – Composition, Information on Ingredients

CAS#	Chemical Name:	Percent
7732-18-5	Water	>80
7558-79-4	Sodium phosphate dibasic	<4
7778-77-0	Potassium phosphate monobasic	<11
7758-11-4	Potassium phosphate dibasic	<8
1310-73-2	Sodium hydroxide	<1

## **Section 3 - Hazards Identification**

### **Emergency Overview**

**Appearance:** Clear, colorless solution (LC12380 is color-coded with yellow dye.)

Caution! May cause eye and skin irritation.

Target Organs: None known.

### **Potential Health Effects**

Eve:

May cause eye irritation.

Skin:

May cause skin irritation.

### Ingestion:

May cause gastrointestinal tract irritation with nausea, vomiting, and diarrhea.



Inhalation:

Inhalation of mists may cause respiratory tract irritation.

Chronic:

May cause adverse kidney effects.

### Section 4 - First Aid Measures

#### Eyes:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids until no evidence of chemical remains. 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. Give conscious victim 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid if irritation or symptoms occur.

#### Inhalation:

Move victim to fresh air immediately. Get medical aid if irritation 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.

#### **Extinguishing Media:**

For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

#### **Autoignition Temperature:**

No information found.

### Flash Point:

No information found.

#### NFPA Rating:

Health- 1, Flammability- 0, Instability- 0

### **Explosion Limits:**

Lower: n/a Upper: n/a

### Section 6 - Accidental Release Measures

#### **General Information:**

Use proper personal protective equipment as indicated in Section 8.

#### Spills/Leaks:

Absorb spill with inert material such as sand, vermiculite, or diatomaceous earth, and transfer to a suitable container labeled for later disposal.



## **Section 7 - Handling and Storage**

#### Handling:

Wash thoroughly after handling. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

### Storage:

Store tightly capped in a cool, dry, well-ventilated area away from incompatible materials.

# **Section 8 - Exposure Controls, Personal Protection**

### **Engineering Controls:**

Facilities using or storing this material should be equipped with an eyewash and safety shower. Provide local exhaust or general dilution ventilation to keep airborne levels below the permissible exposure limits.

### **Exposure Limits:**

Chemical Name:	ACGIH	NIOSH	OSHA
Water	None of the components	None of the components	None of the components
	are on this list.	are on this list.	are on this list.
Sodium phosphate	None of the components	None of the components	None of the components
dibasic	are on this list.	are on this list.	are on this list.
Potassium phosphate	None of the components	None of the components	None of the components
monobasic	are on this list.	are on this list.	are on this list.
Potassium phosphate	None of the components	None of the components	None of the components
dibasic	are on this list.	are on this list.	are on this list.
Sodium hydroxide	2 mg/m3 Ceiling	2 mg/m3 Ceiling	2 mg/m3 TWA
		10 mg/m3 IDLH	

#### **OSHA Vacated PELs:**

Sodium hydroxide: 2 mg/m3 Ceiling

### **Personal Protective Equipment**

#### Eyes:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133. Do not wear contact lenses when working with chemicals.

#### Skin:

Wear appropriate protective gloves to prevent skin exposure.

#### Clothing:

Wear appropriate protective clothing to prevent skin exposure.

### **Respirators:**

Follow the OSHA respirator regulations found in 29 CFR 1910.134. Always use a NIOSH-approved respirator when necessary.

# **Section 9 - Physical and Chemical Properties**

Physical State: Clear liquid

**Color:** Colorless (except LC12380, which is yellow)

Odor: Odorless **pH:** 6-8



Vapor Pressure:
Vapor Density:

Evaporation Rate:
Viscosity:
Boiling Point:

No information found.
No information found.
No information found.
No information found.

**Freezing/Melting Point:** No information found. **Decomposition Temperature:** No information found.

Solubility in water: Soluble.

Specific Gravity/Density: 1.0

Molecular Formula: No information found. No information found.

# Section 10 - Stability and Reactivity

### **Chemical Stability:**

Stable under normal temperatures and pressures.

#### **Conditions to Avoid:**

Incompatible materials, excess heat.

#### **Incompatibilities with Other Materials:**

Strong oxidizing agents, strong acids.

#### **Hazardous Decomposition Products:**

Oxides of phosphorus, sodium and potassium oxides.

#### **Hazardous Polymerization:**

Has not been reported.

## **Section 11 - Toxicological Information**

#### RTECS:

CAS# 7732-18-5: ZC0110000

CAS# 7558-79-4: WC4500000

CAS# 7778-77-0: TC6615500

CAS# 7558-11-4: Not available

CAS# 1310-73-2: WB4900000

#### LD50/LC50:

CAS# 7732-18-5:

Oral, rat: LD50 = 90 mL/kg

CAS# 7558-79-4:

Oral, rat: LD50 = 17 g/kg

CAS# 7778-77-0:

Oral, rat: LD50 = 1700 mg/kg

Dermal, rabbit: LD50 = 4640 mg/kg

CAS# 7758-11-4:

Oral, rat: LD50 = 8 g/kg

CAS# 1310-73-2:

Dermal, rabbit: LD50 = 1350 mg/kg

#### Carcinogenicity:

None of the chemicals in this product are listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.



**Epidemiology:** 

No information found

Teratogenicity:

No information found

Reproductive:

No information found

Mutagenicity:

No information found

**Neurotoxicity:** 

No information found

# **Section 12 - Ecological Information**

No information found

## **Section 13 - Disposal Considerations**

Dispose of in accordance with Federal, State, and local regulations.

# **Section 14 - Transport Information**

### **US DOT**

**Shipping Name:** Not regulated.

Hazard Class: UN Number: Packing Group:

# **Section 15 - Regulatory Information**

### **US Federal**

#### TSCA:

CAS# 7732-18-5 is listed on the TSCA Inventory.

CAS# 7558-79-4 is listed on the TSCA Inventory.

CAS# 7778-77-0 is listed on the TSCA Inventory.

CAS# 7758-11-4 is listed on the TSCA Inventory.

CAS# 1310-73-2 is listed on the TSCA Inventory.

### SARA Reportable Quantities (RQ):

CAS# 7558-79-4: final RQ = 5000 pounds (2270 kg)

CAS# 1310-73-2: final RQ = 1000 pounds (454 kg)

#### **CERCLA/SARA Section 313:**

None of the components are on this list.

#### **OSHA - Highly Hazardous:**

None of the components are on this list.



#### **US State**

#### State Right to Know:

Sodium phosphate dibasic can be found on the following state Right-to-Know lists: California, New Jersey, Pennsylvania, Massachusetts.

Sodium hydroxide can be found on the following state Right-to-Know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts.

### California Regulations:

None

### **European/International Regulations**

### Canadian DSL/NDSL:

All of the components of this product are listed on Canada's DSL List.

### **Canada Ingredient Disclosure List:**

CAS# 7732-18-5 is not listed on Canada's Ingredient Disclosure List.

CAS# 7558-79-4 is not listed on Canada's Ingredient Disclosure List.

CAS# 7778-77-0 is not listed on Canada's Ingredient Disclosure List.

CAS# 7758-11-4 is not listed on Canada's Ingredient Disclosure List.

CAS# 1310-73-2 is listed on Canada's Ingredient Disclosure List.

## **Section 16 - Other Information**

MSDS Creation Date: February 15, 1998 Revision Date: February 11, 2011

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