



Material Safety Data Sheet  
Buffer Dry Salt Mixture (pH 6.86)

MSDS# 03501

### Section 1 - Chemical Product and Company Identification

MSDS Name: Buffer Dry Salt Mixture (pH 6.86)  
Catalog Numbers: B78  
Synonyms: None

Company Identification: Fisher Scientific  
One Reagent Lane  
Fair Lawn, NJ 07410  
For information in the US, call: 201-796-7100  
Emergency Number US: 201-796-7100  
CHEMTREC Phone Number, US: 800-424-9300

### Section 2 - Composition, Information on Ingredients

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Risk Phrases:

CAS#: 7558-79-4  
Chemical Name: Sodium phosphate dibasic  
%: 51  
EINECS#: 231-448-7  
Hazard Symbols:

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Risk Phrases:

CAS#: 7778-77-0  
Chemical Name: Potassium phosphate monobasic  
%: 49  
EINECS#: 231-913-4  
Hazard Symbols:

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Text for R-phrases: see Section 16

Hazard Symbols: None listed  
Risk Phrases: None listed

### Section 3 - Hazards Identification

#### EMERGENCY OVERVIEW

Caution! This is expected to be a low hazard for usual industrial handling. May cause eye, skin, and respiratory tract irritation. Target Organs: None.

#### Potential Health Effects

Eye: Dust may cause mechanical irritation.  
Skin: May cause skin irritation. Low hazard for usual industrial handling.  
Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea. Low hazard for usual industrial handling.  
Inhalation: May cause respiratory tract irritation.  
Chronic: No information found.

### Section 4 - First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. 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: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.

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:

#### 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: Not applicable.

Flash Point: Not applicable.

Explosion Limits: Not available

Lower: Not available

Explosion Limits: Not available

Upper: Not available

NFPA Rating: 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: Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions.

#### Section 7 - Handling and Storage

Handling: Avoid contact with skin and eyes. Avoid ingestion and inhalation. Use with adequate ventilation.

Storage: Store in a tightly closed container. Store in a dry area.

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

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Sodium phosphate dibasic	none listed	none listed	none listed
Potassium phosphate monobasic	none listed	none listed	none listed

OSHA Vacated PELs: Sodium phosphate dibasic: None listed Potassium phosphate monobasic: None listed

#### Engineering Controls:

Use adequate ventilation to keep airborne concentrations low.

#### Exposure Limits

#### 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 or European Standard EN166.

Skin: Wear appropriate gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to minimize contact with skin.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

#### Section 9 - Physical and Chemical Properties

Physical State: Physical State:

Color: colorless or white  
Odor: none reported  
pH: Not available  
Vapor Pressure: Not available  
Vapor Density: Not available  
Evaporation Rate: Not applicable.  
Viscosity: Not available  
Boiling Point: Not applicable.  
Freezing/Melting Point: Not available  
Decomposition Temperature: Not available  
Solubility in water: Slightly soluble in water.  
Specific Gravity/Density: >1.5  
Molecular Formula: Mixture  
Molecular Weight: 0

#### Section 10 - Stability and Reactivity

Chemical Stability: Stable.  
Conditions to Avoid: Incompatible materials.  
Incompatibilities with Other Materials: Not available  
Hazardous Decomposition Products: Oxides of phosphorus, toxic fumes of sodium oxide.  
Hazardous Polymerization: Has not been reported.

#### Section 11 - Toxicological Information

RTECS#: CAS# 7558-79-4: WC4500000  
CAS# 7778-77-0: TC6615500

RTECS:

**CAS# 7558-79-4:** Draize test, rabbit, eye: 500 mg/24H Mild;  
Draize test, rabbit, skin: 500 mg/24H Mild;

LD50/LC50: Oral, rat: LD50 = 17 gm/kg;

RTECS:

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

Carcinogenicity: Sodium phosphate dibasic - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.  
Potassium phosphate monobasic - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Other: See actual entry in RTECS for complete information.

#### Section 12 - Ecological Information

Not available

#### Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

#### Section 14 - Transport Information

US DOT

Shipping Name: Not regulated as a hazardous material

Hazard Class:

UN Number:

Packing Group:

Canada TDG

Shipping Name: Not available

Hazard Class:

UN Number:

Packing Group:

USA RQ: CAS# 7558-79-4: 5000 lb final RQ; 2270 kg final RQ

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available

Risk Phrases:

Safety Phrases:

WGK (Water Danger/Protection)

CAS# 7558-79-4: 1

CAS# 7778-77-0: 1

Canada

CAS# 7558-79-4 is listed on Canada's DSL List

CAS# 7778-77-0 is listed on Canada's DSL List

Canadian WHMIS Classifications: D2B

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.

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.

US Federal

TSCA

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

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

**REVIEWED**

Section 16 - Other Information

MSDS Creation Date: 12/12/1997

Revision #5 Date 7/20/2009

DATE: JUNE 19/2012

*Chuteford*

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 the company 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 the company has been advised of the possibility of such damages.

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