

World Headquarters  
Hach Company  
P.O.Box 389  
Loveland, CO USA 80539  
(970) 669-3050

MSDS No: M00369

## MATERIAL SAFETY DATA SHEET

### I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Buffer Solution pH 7.00 ± 0.02  
**Catalog Number:** 2283549

Hach Company  
P.O.Box 389  
Loveland, CO USA 80539  
(970) 669-3050

Emergency Telephone Numbers:  
(Medical and Transportation)  
(303) 623-5716 24 Hour Service  
(515)232-2533 8am - 4pm CST

**MSDS Number:** M00369

**Chemical Name:** Not applicable

**CAS No.:** Not applicable

**Chemical Formula:** Not applicable

**Chemical Family:** Not applicable

**PIN:** NA

**Intended Use:** Buffer

**Date of MSDS Preparation:**

**Day:** 24

**Month:** July

**Year:** 2009

**MSDS Prepared:** MSDS prepared by Product Compliance Department extension 3350

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

#### Potassium Phosphate, Monobasic

**Percent Range:** < 1.0

**Percent Range Units:** weight / weight

**CAS No.:** 7778-77-0

**LD50:** Oral rat LD50 = 7100 mg/kg

**LC50:** None reported

**TLV:** Not established

**PEL:** Not established

**Ingredient WHMIS Symbol:** Not applicable

#### Demineralized Water

**Percent Range:** >95.0

**Percent Range Units:** volume / volume

**CAS No.:** 7732-18-5

**LD50:** None reported

**LC50:** None reported

**TLV:** Not established

**PEL:** Not established

**Ingredient WHMIS Symbol:** Not applicable

#### Other components, each

**Percent Range:** < 1.0

**Percent Range Units:** volume / volume

**CAS No.:** Not applicable

**LD50:** Not applicable

**LC50:** Not applicable

*TLV:* Not established  
*PEL:* Not established  
*Ingredient WHMIS Symbol:* Not applicable

**Sodium Phosphate, Dibasic**

*Percent Range:* < 1.0  
*Percent Range Units:* weight / weight  
*CAS No.:* 7558-79-4  
*LD50:* Oral rat LD50 = 17 g/kg.  
*LC50:* None reported  
*TLV:* Not established  
*PEL:* Not established  
*Ingredient WHMIS Symbol:* Not applicable

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### 3. HAZARDS IDENTIFICATION

*Emergency Overview:*

*Appearance:* Clear, yellow liquid  
*Physical State:* Liquid  
*Odor:* None

*HMIS:*

*Health:* 0  
*Flammability:* 0  
*Reactivity:* 0  
*Protective Equipment:* X - See protective equipment, Section 8.

*Potential Health Effects:*

*Eye Contact:* No effects are anticipated  
*Skin Contact:* No effects are anticipated  
*Skin Absorption:* No effects anticipated  
*Target Organs:* Not applicable  
*Ingestion:* No Effects Anticipated  
*Target Organs:* Not applicable  
*Inhalation:* No effects anticipated  
*Target Organs:* Not applicable  
*Medical Conditions Aggravated:* None reported  
*Chronic Effects:* No effects anticipated  
*Cancer / Reproductive Toxicity Information:*  
This product does NOT contain any IARC listed chemicals.

This product does NOT contain any NTP listed chemicals.

*Additional Cancer / Reproductive Toxicity Information:* None reported  
*Toxicologically Synergistic Products:* None reported  
*WHMIS Hazard Classification:* Not applicable  
*WHMIS Symbols:* Not applicable

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### 4. FIRST AID

*Eye Contact:* Flush eyes with water. Call physician if irritation develops.  
*Skin Contact (First Aid):* Wash skin with plenty of water.  
*Ingestion (First Aid):* Give large quantities of water. Call physician immediately.  
*Inhalation:* None required.

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### 5. FIRE FIGHTING MEASURES

**Flammable Properties:** Material will not burn.

**Flash Point:** Not applicable

**Method:** Not applicable

**Flammability Limits:**

**Lower Explosion Limits:** Not applicable

**Upper Explosion Limits:** Not applicable

**Autoignition Temperature:** Not applicable

**Hazardous Combustion Products:** None reported

**Fire / Explosion Hazards:** None reported

**Static Discharge:** None reported.

**Mechanical Impact:** None reported

**Extinguishing Media:** Use media appropriate to surrounding fire conditions

**Fire Fighting Instruction:** As in any fire, wear self-contained breathing apparatus pressure-demand and full protective gear.

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## 6. ACCIDENTAL RELEASE MEASURES

**Spill Response Notice:**

Only persons properly qualified to respond to an emergency involving hazardous substances should respond to a spill involving chemicals. See Section 13, Special Instructions for disposal assistance.

**Containment Technique:** Stop spilled material from being released to the environment.

**Clean-up Technique:** Absorb spilled liquid with non-reactive sorbent material. Place material in a plastic bag. Mark bag 'Non-hazardous trash', and dispose of as normal refuse.

**Evacuation Procedure:** Evacuate as needed to perform spill clean-up. If conditions warrant, increase the size of the evacuation.

**D.O.T. Emergency Response Guide Number:** None

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## 7. HANDLING / STORAGE

**Handling:** Avoid contact with eyes Wash thoroughly after handling.

**Storage:** Protect from: heat Keep container tightly closed when not in use.

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## 8. EXPOSURE CONTROLS / PROTECTIVE EQUIPMENT

**Engineering Controls:** Maintain general industrial hygiene practices when using this product.

**Personal Protective Equipment:**

**Eye Protection:** safety glasses with top and side shields

**Skin Protection:** Not applicable

**Inhalation Protection:** adequate ventilation

**Precautionary Measures:** Avoid contact with: eyes Wash thoroughly after handling.

**TLV:** Not established

**PEL:** Not established

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## 9. PHYSICAL / CHEMICAL PROPERTIES

**Appearance:** Clear, yellow liquid

**Physical State:** Liquid

**Molecular Weight:** Not applicable

**Odor:** None

**pH:** 7.0 at 20°C

**Vapor Pressure:** Not determined

**Vapor Density (air = 1):** Not determined

**Boiling Point:** ~100°C (~212°F)

**Melting Point:** ~0°C (~32°F)

**Specific Gravity (water = 1):** ~1.0

**Evaporation Rate (water = 1):** Not determined

**Volatile Organic Compounds Content:** Not applicable

**Coefficient of Water / Oil:** Not determined

**Solubility:**

*Water:* Soluble  
*Acid:* Soluble  
*Other:* Not determined  
*Metal Corrosivity:*  
*Steel:* Not determined  
*Aluminum:* Not determined

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## 10. STABILITY / REACTIVITY

*Chemical Stability:* Stable when stored under proper conditions.  
*Conditions to Avoid:* Heat Evaporation  
*Reactivity / Incompatibility:* None reported  
*Hazardous Decomposition:* None reported  
*Hazardous Polymerization:* Will not occur.

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## 11. TOXICOLOGICAL INFORMATION

*Product Toxicological Data:*  
*LD50:* None reported  
*LC50:* None reported  
*Dermal Toxicity Data:* None reported  
*Skin and Eye Irritation Data:* None reported  
*Mutation Data:* None reported  
*Reproductive Effects Data:* None reported  
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*Ingredient Toxicological Data:* --  
No toxicological data available for the ingredients of this product.

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## 12. ECOLOGICAL INFORMATION

*Product Ecological Information:* --  
No ecological data available for this product.  
*Ingredient Ecological Information:* --  
No ecological data available for the ingredients of this product.

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## 13. DISPOSAL CONSIDERATIONS

*Special Instructions (Disposal):* Open cold water tap completely, slowly pour the material to the drain.  
*Empty Containers:* Rinse three times with an appropriate solvent. Dispose of empty container as normal trash.  
*NOTICE (Disposal):* These disposal guidelines are based on federal regulations and may be superseded by more stringent state or local requirements. Please consult your local environmental regulators for more information.

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## 14. TRANSPORT INFORMATION

*T.D.G.:*  
*Proper Shipping Name:* Not Currently Regulated  
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*Hazard Class:* NA  
*PIN:* NA  
*Group:* NA  
*Subsidiary Risk:* NA  
*Additional Information:* There is a possibility that this product could be contained in a reagent set or kit composed of various compatible dangerous goods. If the item is NOT in a set or kit, the classification given above applies. If the item IS part of a set or kit, the classification would change to the following: UN3316 Chemical Kit, Class 9, PG II or III. If the item is not regulated, the Chemical Kit classification does not apply.

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## 15. REGULATORY INFORMATION

*National Inventories:*

**Canadian Inventory Status:** All ingredients of this product are DSL Listed.

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

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## 16. OTHER INFORMATION

**References:** 29 CFR 1900 - 1910 (Code of Federal Regulations - Labor). Air Contaminants, Federal Register, Vol. 54, No. 12, Thursday, January 19, 1989, pp. 2332-2983. TLV's Threshold Limit Values and Biological Exposure Indices for 1992-1993. American Conference of Governmental Industrial Hygienists, 1992. Technical Judgment. In-house information.

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### Legend:

NA - Not Applicable	w/w - weight/weight
ND - Not Determined	w/v - weight/volume
NV - Not Available	v/v - volume/volume

**USER RESPONSIBILITY:** Each user should read and understand this information and incorporate it in individual site safety programs in accordance with applicable hazard communication standards and regulations.

**THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED TO BE ACCURATE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.**

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