



# PURITAN PRODUCTS

Effective Date: 08/30/16

Replaces Revision: 07/01/13, 06/20/11

NON-EMERGENCY TELEPHONE  
610-866-4225

24-HOUR CHEMTREC EMERGENCY TELEPHONE  
800-424-9300

## SDS – SAFETY DATA SHEET

### 1. Identification

**Product Identifier:** BUFFER SOLUTION (PHOSPHATE), pH 8

**Synonyms:** None

**Chemical Formula:** Not applicable to mixtures

**Recommended Use of the Chemical and Restrictions On Use:** Laboratory Reagent

**Manufacturer / Supplier:** Puritan Products; 2290 Avenue A, Bethlehem, PA 18017 **Phone:** 610-866-4225

**Emergency Phone Number:** 24-Hour Chemtrec Emergency Telephone 800-424-9300

### 2. Hazard(s) Identification

**Classification of the Substance or Mixture:**

Acute aquatic toxicity (Category 3) – for concentrated Dowicide®

**Risk and Safety Phrases:**

R22: Harmful if swallowed.

R36: Irritating to eyes.

R38: Irritating to skin.

R51: Toxic to aquatic organisms. (Concentrated Dowicide®)

**Label Elements:**

**Trade Name:** BUFFER SOLUTION (PHOSPHATE), pH 8

**Signal Word:** None

**Hazard Statements:**

H303: May be harmful if swallowed.

H316: Causes mild skin irritation.

H320: Causes eye irritation.

H401: Toxic to aquatic life.

**Precautionary Statements:**

None

### 3. Composition / Information on Ingredients

**CAS Number:** Not applicable to mixtures

**EC Number:** Not applicable to mixtures

**Index Number:** Not applicable to mixtures

**Molecular Weight:** Not applicable to mixtures

Ingredient	CAS Number	EC Number	Percent	Hazardous	Chemical Characterization
Potassium Phosphate Mono	7778-77-0	231-913-4	< 1%	No	Substance
Sodium Phosphate, Dibasic	7558-79-4	231-448-7	< 1%	No	Substance
Phosphoric Acid	7664-38-2	231-633-2	< 1%	Yes	Substance
Dowicide® Dow Chemical	132-27-4	205-055-6	< 1%	Yes	Substance
Water	7732-18-5	231-791-2	95 - 99%	No	Mixture

## 4. First-aid Measures

**Inhalation:** Not expected to require first aid measures. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give Oxygen. Get medical if any breathing difficulty.

**Ingestion:** Not expected to require first aid measures. If large amounts were swallowed, give water to drink and get medical advice.

**Skin Contact:** Not expected to require first aid measures. In case of contact, wash exposed area with soap and water. Get medical advice if irritation develops.

**Eye Contact:** Not expected to require first aid measures. Wash thoroughly with running water. Get medical advice if irritation develops.

## 5. Fire-fighting Measures

**Fire:** Not expected to be a fire hazard.

**Explosion:** Not considered to be an explosion hazard.

**Fire Extinguishing Media:** Use any means suitable for extinguishing surrounding fire.

**Special Information:** In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

## 6. Accidental Release Measures

**Personal Precautions, Protective Equipment and Emergency Procedures:** Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering.

**Environmental Precautions and Methods and Materials for Containment and Cleaning Up:** Contain and recover liquid when possible. Do not let product enter drains. Neutralize with alkaline material (soda ash, lime,) then absorb with an inert material (e.g., vermiculite, dry sand, earth,) and place in a chemical waste container. 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. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

## 7. Handling and Storage

**Precautions for Safe Handling and Conditions for Safe Storage, Including Any Incompatibilities:** Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid.) Observe all warnings and precautions listed for the product.

## 8. Exposure Controls / Personal Protection

**Airborne Exposure Limits:**  
None established.

**Ventilation System:** In general, dilution ventilation is a satisfactory health hazard control for this substance. However, if conditions of use create discomfort to the worker, a local exhaust system should be considered.

**Personal Respirators (NIOSH Approved):** Not expected to require personal respirator usage.

**Skin Protection:** Wear protective gloves and clean body-covering clothing.

**Eye Protection:** Use chemical safety goggles and / or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

## 9. Physical and Chemical Properties

**Appearance:** Yellow liquid

**Odor:** Odorless

**Odor Threshold:** Not determined

**pH:** 8.0

**% Volatiles by volume @ 21C (70F):** ca. 98

**Melting Point:** No information found.

**Boiling Point / Boiling Range:** No information found

**Flash Point:** Not applicable

**Evaporation Rate (BuAC=1):** No information found

**Flammability:** Not applicable

**Upper / Lower Flammability or Explosive Limits:** Not applicable

**Vapor Pressure (mm Hg):** No information found

**Vapor Density (Air=1):** No information found

**Relative Density:** No information found

**Solubility:** Completely soluble in water (100%)

**Partition Coefficient: n-octanol / water:** No data available

**Auto-ignition Temperature:** No data available

**Decomposition Temperature:** No data available

**Viscosity:** No information found

## 10. Stability and Reactivity

**Reactivity and / or Chemical Stability:** Stable under ordinary conditions of use and storage.

**Possibility of Hazardous Reactions and Conditions to Avoid:** Avoid excessive heat (Dowicide®).

**Incompatible Materials:** No information found.

**Hazardous Decomposition Products:** Oxides of Phosphorous, Sodium and Carbon may be formed when heated to decomposition.

## 11. Toxicological Information

**Emergency Overview:** As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing.

### Potential Health Effects:

**Inhalation:** No adverse health effects via inhalation.

**Ingestion:** Not expected to be a health hazard via ingestion. Large oral doses may cause irritation to the gastrointestinal tract.

**Skin Contact:** Not expected to be a health hazard from skin exposure. May cause mild irritation and redness.

**Eye Contact:** No adverse effects expected. May cause mild irritation, possible reddening.

**Chronic Exposure:** No information found.

**Aggravation of Pre-existing Conditions:** No information found.

**Specific Target Organ Toxicity - Single Exposure (Globally Harmonized System:)** No data available.

**Specific Target Organ Toxicity - Repeated Exposure (Globally Harmonized System:)** No data available.

**Numerical Measures of Toxicity:** Cancer Lists: NTP Carcinogen

Ingredient	Known	Anticipated	IARC Category
Potassium Phosphate Monobasic (7778-77-0)	No	No	None
Sodium Phosphate, Dibasic (7558-79-4)	No	No	None
Phosphoric Acid (7664-38-2)	No	No	None
Dowicide® (132-27-4)	No	No	2B
Water (7732-18-5)	No	No	None

**Acute Toxicity:**

No LD50/LC50 information found relating to normal routes of occupational exposure.

## 12. Ecological Information

**Ecotoxicity:** Ecotoxicity is not known other than that concentrated Dowicide® is toxic to aquatic organisms (reference Section 2 of this SDS.)

**Persistence and Degradability:** No further relevant information available.

**Bioaccumulative Potential:** No further relevant information available.

**Mobility in Soil:** No further relevant information available.

**Other adverse effects:** US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

## 13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste 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.

## 14. Transport Information

**Land Transport ADR/RID and GGVS/GGVE (Cross Border / Domestic)**

Not regulated

**Maritime Transport IMDG/GGVSea**

Not regulated

**Air Transport ICAO-TI and IATA-DGR**

Not regulated

## 15. Regulatory Information

**Chemical Inventory Status – Part 1**

Ingredient	TSCA	EC	Japan	Australia
Potassium Phosphate Monobasic (7778-77-0)	Yes	Yes	Yes	Yes
Sodium Phosphate, Dibasic (7558-79-4)	Yes	Yes	Yes	Yes

Phosphoric Acid (7664-38-2)	Yes	Yes	Yes	Yes
Dowicide® (132-27-4)	Yes	Yes	Yes	Yes
Water (7732-18-5)	Yes	Yes	Yes	Yes

### Chemical Inventory Status – Part 2

Ingredient	Korea	Canada		Phil.
		DSL	NDSL	
Potassium Phosphate Monobasic (7778-77-0)	Yes	Yes	No	Yes
Sodium Phosphate, Dibasic (7558-79-4)	Yes	Yes	No	Yes
Phosphoric Acid (7664-38-2)	Yes	Yes	No	Yes
Dowicide® (132-27-4)	Yes	Yes	No	Yes
Water (7732-18-5)	Yes	Yes	No	Yes

### Federal, State & International Regulations - Part 1

Ingredient	SARA 302		SARA 313	
	RQ	TPQ	List Chemical	Catg.
Potassium Phosphate Monobasic (7778-77-0)	No	No	No	No
Sodium Phosphate, Dibasic (7558-79-4)	5000	No	No	No
Phosphoric Acid (7664-38-2)	No	No	No	No
Dowicide® (132-27-4)	No	No	No	No
Water (7732-18-5)	No	No	No	No

### Federal, State & International Regulations - Part 2

Ingredient	RCRA		TSCA	
	CERCLA	261.33	8(d)	
Potassium Phosphate Monobasic (7778-77-0)	No	No	No	
Sodium Phosphate, Dibasic (7558-79-4)	5000	No	No	
Phosphoric Acid (7664-38-2)	5000	No	No	
Dowicide® (132-27-4)	No	No	No	
Water (7732-18-5)	No	No	No	

<b>Chemical Weapons Convention:</b> No		<b>TSCA 12(b):</b> No		<b>CDTA:</b> No	
<b>SARA 311/312:</b>	<b>Acute:</b> No	<b>Chronic:</b> No	<b>Fire:</b> No	<b>Pressure:</b> No	
<b>Reactivity:</b> No		Mixture / Liquid			

**Australian Hazchem Code:** None allocated

**Poison Schedule:** None allocated

## 16. Other Information

Revision 08/30/16 – modified Effective Date

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