

## SAFETY DATA SHEET

### 1. PRODUCT & COMPANY IDENTIFICATION

**Product Name:** Drench-Phos  
**Product Code:** 10044  
**Product Use:** Phosphoric Acid pH Acidifier/Buffer  
**Product:** Not for aquatic use.  
**Restrictions:**  
**Manufacturer:** Pace International, LLC  
**Address:** 5661 Branch Road, Wapato, WA 98951  
**Phone Number:** 800-936-6750 (Monday-Friday, 7:00 a.m. – 4:00 p.m.)  
**Medical Emergency Phone Number:** 888-271-4649 (PROPHARMA/PROSAR)  
**Transportation Emergency Phone Number:** 800-424-9300 (CHEMTREC)

### 2. HAZARDS IDENTIFICATION

GHS Classification in accordance with 29 CFR 1910 (2012 OSHA Hazard Communication Standard)  
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Classification:**

Physical, CORROSIVE Category 1

Skin irritation, Category 1

Eye irritation, Category 1

**Hazard Pictogram(s):**



**Signal Word:**

DANGER

**Hazard Statements:**

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

**Other Hazards:**

**Hazard(s) not otherwise classified (HNOC):**

**Precautionary Statements:**

**Prevention Statements:**

P234 Keep only in original container.

P260 Do not breathe mists, vapours, or spray.

P264 Wash hands thoroughly after handling.

P280 Wear protective clothing, safety goggles or face shield and chemical resistant gloves.

**Response Statements:**

P390 Absorb spillage to prevent material damage.

P301/330/331 IF SWALLOWED: Rinse mouth. Do not induce vomiting.

P303/361/353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P363 Wash contaminated clothing before reuse.

P304/340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P310 Immediately call a POISON CENTER or doctor for medical advice.

P321 Specific treatments see Section 4 First Aid Measures.

P305/351/338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

P310 Immediately call a POISON CENTER or doctor for medical advice.

**Storage Statements:**

P406 Store in corrosive resistant container with a resistant inner liner.

P405 Store locked up.

**Disposal Statements:**

P501 Dispose of contents/container should be made in accordance with applicable regional, national and local laws and regulations.

Not applicable.

None known.



### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredient</u>	<u>CAS #</u>	<u>Concentration (w/w %)</u>
Phosphoric Acid	7664-38-2	24%
Other ingredients*	Balance	76%

\*Other Ingredients not identified are trade secrets and non-hazardous.

### 4. FIRST AID MEASURES

<b>General Advice:</b>	Have the product container, label or Safety Data Sheet with you when calling a poison control center or physician, or going for treatment. You may also contact PROPHARMA (PROSAR) 1-888-271-4649 for emergency medical treatment information.
<b>If on Skin:</b>	Take off immediately all contaminated clothing. Wash skin with plenty of soap and water for 15-20 minutes. If redness, burning, persistent irritation, or you feel unwell, call and get medical advice/attention. Wash contaminated clothing before reuse.
<b>If in Eyes:</b>	Hold eye open and rinse cautiously with water for 15 – 20 minutes. Remove contact lenses, if present, after the first 5 minutes if easy to do, then continue rinsing eye. Immediately call a POISON CENTER/doctor.
<b>If Ingested:</b>	Rinse mouth. DO NOT induce vomiting. Immediately call a POISON CENTER/doctor for medical advice/attention. Do not give anything by mouth to an unconscious person.
<b>If Inhaled:</b>	Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor for medical advice. If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth, if possible.
<b>Most important Symptoms / effects, acute and delayed</b>	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage could result, including blindness.
<b>Indication of any immediate medical attention and special treatment needed:</b>	Irrigate eyes with water; wash contaminated part of body with soap and water; gastric lavage (stomach wash) taking care not to perforate the gastrointestinal tract, if swallowed. Treat patient symptomatically.

### 5. FIRE FIGHTING MEASURES

<b>Suitable Extinguishing Media:</b>	Not flammable. Use any means suitable for extinguishing surrounding fire. Water spray may be used to keep fire exposed containers cool.
<b>Unsuitable Extinguishing Media:</b>	Not available.
<b>Special Hazards Arising from the Chemical:</b>	May include and are not limited to: Oxides of phosphorus. Reacts violently with alkaline material.
<b>Special protective equipment and precautions for firefighters:</b>	Use NIOSH approved self-contained breathing apparatus and full protective clothing including eye protection and boots.
<b>Fire-fighting equipment/instructions:</b>	Keep upwind. If possible, remove containers exposed to heat or cool with water. Do not scatter spilled material with high pressure water streams. Contain and isolate runoff and debris for proper disposal (see Section 13 of the SDS).
<b>Specific methods:</b>	Use standard firefighting procedures and consider the hazards of other involved materials.
<b>Hazardous combustion products:</b>	May include and are not limited to: Oxides of phosphorus.



**6. ACCIDENTAL RELEASE MEASURES**

**Personal Precautions, Protective Equipment and Emergency procedures:** Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, (see section 8 of the SDS).

**Environmental Precautions:** Do not allow product to enter sewers, lakes, streams or other bodies of water.

**Containment / Clean-Up Methods:** Stop spill at the source. Construct temporary dikes of dirt, sand, or other appropriate material to prevent spreading of the material. Absorb with an inert material such as sand or vermiculite and place in an appropriate container for disposal (see Section 13 of the SDS). Neutralize washings with a base such as soda ash. Flush residual spill area with large amounts of water.

**7. HANDLING & STORAGE**

**Precautions for Safe Handling:** Use good industrial hygiene practices in handling this material. DO NOT get in eyes, on skin or clothing. Use only with adequate ventilation. Do not breathe mist or vapor. Keep container tightly closed. Wear appropriate personal protective equipment (see Section 8 of the SDS). Wash thoroughly after handling. Eating, drinking and smoking in work areas is prohibited. Remove contaminated clothing and protective equipment before entering eating areas.

**Conditions for Safe Storage, including any Incompatibilities:** Keep in properly labelled containers. Store in a cool, dry area at room temperature, well ventilated area, and away from direct sunlight. Do not freeze. Store in corrosive resistant container with a resistant inner liner. Keep container tightly closed and upright when not in use. Keep out of reach of children and livestock. Store in locked location. Store away from incompatible materials (see Section 10 of the SDS).

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Occupational Exposure Limits:**

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

Components	Type	Value
Phosphoric Acid CAS# 7664-38-2	PEL	1 mg/m3

**US. ACGIH Threshold Limit Values**

Components	Type	Value
Phosphoric Acid CAS# 7664-38-2	STEL	3 mg/m3
	TWA	1 mg/m3

**US. NIOSH: Pocket Guide to Chemical Hazards**

Components	Type	Value
Phosphoric Acid CAS# 7664-38-2	STEL	3 mg/m3
	TWA	1 mg/m3

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Exposure guidelines** See above

**Appropriate engineering controls** Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** Wear chemical goggles or face shield. Eye fountain and washing facilities should be available.



<b>Skin protection</b>	
<b>Hand protection</b>	Nitrile, neoprene, and vinyl (PVC) gloves or other impervious gloves.
<b>Other</b>	Use of an impervious apron or clothing.
<b>Respiratory protection</b>	Where exposure guideline levels may be exceeded, use an approved NIOSH respirator, acid gas filter combination. Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134)
<b>Thermal hazards</b>	Not applicable.
<b>General hygiene considerations</b>	Use good industrial hygiene practices in handling this material. When using do not eat, drink, or smoke. Wash thoroughly after handling.

## 9. PHYSICAL & CHEMICAL PROPERTIES

<b>Physical state:</b>	Liquid	<b>Upper/Lower flammability or exposure limits:</b>	Not available
<b>Appearance / Color:</b>	Colorless, slightly viscous liquid	<b>Vapor pressure:</b>	Not available
<b>Odor:</b>	Odorless	<b>Vapor density: (air =1)</b>	Not available
<b>Odor threshold:</b>	Not available	<b>Specific Gravity: (H<sub>2</sub>O = 1)</b>	1.14
<b>pH:</b>	0.5	<b>Solubility:</b>	Miscible in water
<b>Melting/Freezing point:</b>	Not available	<b>Partition coefficient (n-octanol-water):</b>	Not available
<b>Initial boiling point and boiling range:</b>	212 - 275°F (100 - 135°C)	<b>Auto-ignition temperature:</b>	Not available
<b>Flash point:</b>	Not flammable	<b>Decomposition temperature:</b>	Not available
<b>Evaporation rate:</b>	Not available	<b>Viscosity:</b>	Not available
<b>Flammability (solid, gas):</b>	Not applicable	<b>Explosive Properties:</b>	Not explosive
		<b>Oxidizing Properties:</b>	Not oxidizing

## 10. STABILITY & REACTIVITY

<b>Reactivity hazards:</b>	Reacts violently with alkaline material. This product may react with reducing agents. Reacts with soft metals producing flammable hydrogen gas. This product may react with strong oxidizing agents.
<b>Possibility of Hazardous Reactions:</b>	Hazardous polymerization does not occur.
<b>Chemical stability:</b>	Stable under recommended storage conditions.
<b>Conditions to avoid:</b>	Do not mix with other chemicals.
<b>Incompatible materials:</b>	Bases. Oxidizers. Reducing agents. Metals.
<b>Hazardous decomposition products:</b>	May include and are not limited to: Oxides of phosphorous

## 11. TOXICOLOGICAL INFORMATION

<b>Routes of exposure:</b>	Eye, Skin contact, Inhalation, Ingestion.	
<b>Information on likely routes of exposure</b>		
<b>Ingestion</b>	Causes digestive tract burns. May cause stomach distress, nausea or vomiting.	
<b>Inhalation</b>	May cause irritation to the respiratory system.	
<b>Skin contact</b>	May cause chemical burns. Harmful contact may not cause immediate pain.	
<b>Eye contact</b>	Causes serious eye damage.	
<b>Symptoms related to the physical, chemical and toxicological characteristics:</b>	Contact with this material may cause burns to the skin, eyes and mucous membranes.	
<b>Information on toxicological effects</b>		
<b>Acute toxicity</b>		
<b>Components</b>	<b>Species</b>	<b>Test Results</b>
Phosphoric Acid CAS# 7664-38-2		
<b>Acute</b>		



<i>Dermal</i>		
LD50	Rabbit	2740 mg/kg
<i>Inhalation</i>		
LC50	Not available	
<i>Oral</i>		
LD50	Rat	1530 mg/kg
<b>Skin corrosion/irritation:</b>	Causes severe skin burns and eye damage.	
<b>Serious eye damage/eye irritation:</b>	Causes serious eye damage.	
<b>Respiratory sensitization:</b>	Not a respiratory sensitizer.	
<b>Skin sensitization:</b>	This product is not expected to cause skin sensitization.	
<b>Mutagenicity:</b>	Non-hazardous by WHMIS/OSHA criteria.	
<b>Carcinogenicity:</b>	Non-hazardous by WHMIS/OSHA criteria.	
<b>US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):</b>		
	Not Listed	
<b>Reproductive toxicity:</b>	This product is not expected to cause reproductive or developmental effects. Non-hazardous by WHMIS/OSHA criteria.	
<b>Teratogenicity:</b>	Non-hazardous by WHMIS/OSHA criteria.	
<b>Specific target organ toxicity -single exposure:</b>	Not classified.	
<b>Specific target organ toxicity -repeated exposure:</b>	Not classified.	
<b>Aspiration hazard:</b>	Not classified.	
<b>Chronic effects:</b>	Prolonged inhalation may be harmful.	

## 12. ECOLOGICAL INFORMATION

Ecotoxicity	See below		
Ecotoxicological data	Species		Test Results
<b>Components</b>			
Phosphoric acid (CAS 7664-38-2)			
<b>Aquatic</b>			
<i>Acute</i>			
Crustacea	LC50	Water flea (Daphnia magna)	4.6 mg/L, 12 hr
Fish	LC50	Mosquitofish (Gambusia affinis affinis)	3 - 3.5 mg/L, 96 hr
<b>Persistence/ degradability:</b>	No data is available on the degradability of this product.		
<b>Bioaccumulative potential</b>			
<b>Mobility in soil:</b>	No data available.		
<b>Mobility in general:</b>	Not available.		
<b>Other adverse effects:</b>	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.		

## 13. DISPOSAL CONSIDERATIONS

<b>Disposal instructions:</b>	Recover or recycle if possible. Do not discharge into sewers, lakes, streams, or other bodies of water. Disposal should be made in accordance with applicable regional, national and local laws and regulations. Consult appropriate regulatory officials for information on disposal, keeping in mind that local regulations may be more stringent than regional or national requirements.
<b>Hazardous waste code</b>	D002: Waste Corrosive material [pH <=2 or >=12.5, or corrosive to steel] The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Waste from residues / unused products</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
<b>Contaminated packaging</b>	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.



## 14. TRANSPORT INFORMATION

### U.S. Department of Transportation (DOT)

#### DOT

<b>UN number:</b>	UN1805
<b>Proper shipping name:</b>	Corrosive liquid, n.o.s. (Phosphoric acid solution)
<b>Hazard class(es):</b>	8
<b>Packing group:</b>	III
<b>Marine Pollutant:</b>	Not applicable
<b>Special precautions:</b>	A7, IB3, N34, T4, TP1
<b>Packaging exceptions:</b>	154
<b>Packaging Non Bulk:</b>	203
<b>Packaging Bulk:</b>	241

## 15. REGULATORY INFORMATION

**US FEDERAL REGULATIONS** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Phosphoric acid (CAS 7664-38-2) Not regulated.

### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Phosphoric acid (CAS 7664-38-2) Not regulated.

### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Phosphoric acid (CAS 7664-38-2) Not regulated.

### CERCLA Hazardous Substance List (40 CFR 302.4)

Phosphoric acid (CAS 7664-38-2) Listed.

### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Phosphoric acid (CAS 7664-38-2) Not regulated.

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard Categories Immediate Hazard - Yes

Delayed Hazard - No

Fire Hazard - No

Pressure Hazard - No

Reactivity Hazard - No

### SARA 302 Extremely hazardous substance

No

### SARA 311/312 Hazardous chemical

No

### SARA 313 (TRI reporting)

Not regulated.

### US STATE

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm. See below

#### REGULATIONS

### US - California Hazardous Substances (Director's):

Phosphoric acid (CAS 7664-38-2) Listed.

### US - Illinois Chemical Safety Act:

Phosphoric acid (CAS 7664-38-2) Listed.

### US - Louisiana Spill Reporting: Listed substance

Phosphoric acid (CAS 7664-38-2) Listed.

### US - Minnesota Haz Subs: Listed substance

Phosphoric acid (CAS 7664-38-2) Listed.

### US - New Jersey RTK - Substances: Listed substance

Phosphoric acid (CAS 7664-38-2) Listed.

### US - Texas Effects Screening Levels: Listed substance

Phosphoric acid (CAS 7664-38-2) Listed.

### US. Massachusetts RTK - Substance List

Phosphoric acid (CAS 7664-38-2) Listed.

### US. Pennsylvania RTK - Hazardous Substances

Phosphoric acid (CAS 7664-38-2) Listed.

### US. Rhode Island RTK

Phosphoric acid (CAS 7664-38-2) Listed.

### US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

### Inventory status



Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

## 16. OTHER INFORMATION

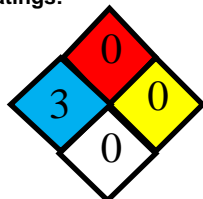
HMIS Ratings:

Health – 3

Flammability – 0

Reactivity – 0

NFPA Ratings:



The information provided in this Safety Data Sheet (SDS) is provided in good faith and believed to be accurate at the time of preparation of the SDS. However, to the extent consistent with applicable law, Pace International, LLC and its subsidiaries or affiliates extend no warranties, make no representations, and assume no responsibility as to the accuracy, suitability, or completeness of such information. Additionally, to the extent consistent with applicable law, neither Pace International, LLC nor any of its subsidiaries or affiliates represents or guarantees that this information or product may be used without infringing the intellectual property rights of others. Except to the extent a particular use and particular information are expressly stated on the product label, it is the users' own responsibility to determine the suitability of this information for their own particular use of this product. If necessary, contact Pace International, LLC) to confirm that you have the most current product label and SDS.

This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA-APPROVED PRODUCT LABEL (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use as required by the Occupational Health and Safety Act (29 CFR 1910.1200, "Hazcom"). The product label provides information specifically for product use in the ordinary course. Use, storage and disposal of pesticide products is regulated by the EPA under the authority of FIFRA through the product label. All necessary hazard classification and appropriate precautionary use, storage, and disposal information is set forth on that label or labeling accompanying the pesticide or to which reference is made on the label. It is a violation of federal law to use an EPA-registered pesticide product in any manner inconsistent with its labeling.

**SDS preparation date:** September 14, 2017

**Replaces SDS dated:** June 16, 2017

**Version No.** 5

**Changes since last revision:** Section 11, Toxicological Information,

