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Drench-Phos

POSTHARVEST

SAFETY DATA SHEET

1. PRODUCT & COMPANY IDENTIFICATION

Product Name: Drench-Phos
Product Code: 10044
Product Use: Phosphoric Acid pH Acidifier/Buffer
Supplier: 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 (PROSAR)
Transportation Emergency Phone Number: 800-424-9300 (CHEMTREC)

2. HAZARDS IDENTIFICATION

Classification:
Physical, CORROSIVE Category 1
Acute Oral, Category 5
Acute Dermal, Category 5
Skin irritation, Category 1
Eye irritation, Category 1

Hazard Symbols:

Hazard Statements:
DANGER
H290 May be corrosive to metals.
H303 May be harmful if swallowed.
H313 May be harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.

Precautionary Statements:
Prevention Statements:
P234 Keep only in original container.
P260 Do not breathe mists.
P264 Wash hands thoroughly after handling.
P280 Wear impermeable clothing, safety goggles or face shield and chemical resistant gloves.
Response Statements:
P390 Absorb spillage to prevent material damage.
P312 Call a Poison Center or doctor if you feel unwell.
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.
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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS #	Concentration (w/w %)
Phosphoric Acid	7664-38-2	< 35%
Proprietary ingredients		Balance

4. FIRST AID MEASURES

General Advice: POISON. May be fatal if swallowed. Causes severe chemical burns. Do not get in eyes, on skin, or on clothing. Wear impermeable clothing, goggles or face shield and rubber gloves when handling. Do not inhale or swallow. Do NOT mix directly with chlorine or with chlorinated water containing more than 400 ppm total chlorine. Have the product container, label or Safety Data Sheet with you when calling a poison control center or physician, or going for treatment.

If on Skin: Take off contaminated clothing. Wash skin with plenty of soap and water. If redness, burning, or irritation persists, get medical advice/attention. Wash contaminated clothing before reuse.

If in Eyes: Hold eye open and rinse slowly and gently with water for 15 – 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Get medical advice/attention.

If Swallowed: Call a poison control center or doctor for treatment advice. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

If Inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth, if possible.

5. FIRE FIGHTING MEASURES

Extinguishing Media: Not flammable. Use any means suitable for extinguishing surrounding fire. Water spray may be used to keep fire exposed containers cool.

Special Exposure Hazards: None known.

Special Protective Equipment / Procedures for Firefighters: Use NIOSH approved self-contained breathing equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear impermeable clothing, safety goggles or face shield, and chemical resistant gloves.

Environmental Precautions: In case of spill isolate area and deny entry to unnecessary personnel. 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. Neutralize washings with a base such as soda ash. Flush residual spill area with large amounts of water.

7. HANDLING & STORAGE

Handling: Avoid contact with skin and eyes. Remove closure carefully to relieve possible internal pressure. Never use pressure to empty container. Good standards of hygiene should be maintained at all times. Smoking, eating, and drinking are prohibited in the work area. For personal protection wear impermeable clothing, safety goggles or face shield and chemical resistant gloves.

Storage: Store in a cool, dry area at room temperature, and away from direct sunlight. Store in corrosive resistant container with a resistant inner liner. Keep container tightly closed when not in use. Keep out of reach of children and livestock. Store in locked location.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits: Phosphoric Acid CAS# 7664-38-2
1 mg/m^3 (OSHA 8-hr PEL, Cal/OSHA, NIOSH REL, ACGIH TLV)

Engineering Controls: Local exhaust ventilation maybe necessary to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source. Provide mechanical ventilation for confined spaces.

Personal Protective Equipment :

Clothing: Wear impermeable clothing and chemical resistant gloves when handling.

Eye Protection: Chemical goggles or face shield recommended. Eye fountain and washing facilities should be present at work area.

Respiratory Protection: Not normally required. A NIOSH-approved respirator with organic vapor filter may be used in misty environments without proper ventilation.

9. PHYSICAL & CHEMICAL PROPERTIES

Physical state:	Liquid		
Appearance:	Colorless, slightly viscous liquid	**Upper/Lower flammability limits:**	Not available
Odor:	Not available	**Vapor pressure:**	Not available
Odor threshold:	Not available	**Vapor density: (air =1)**	Not available
pH:	.3 – 1.0	**Specific Gravity: (H_2O = 1)**	.1.14
Melting/Freezing point:	Not available	**Solubility:**	Miscible with water
Boiling point:	212 - 275°F (100 - 135°C)	**Partition coefficient (n-octanol-water):**	Not available
Flash point:	Not flammable	**Auto-ignition temperature:**	Not available
Evaporation rate:	Not available	**Decomposition temperature:**	Not available
Flammability (solid, gas):	Not applicable	**Viscosity:**	Not available

10. STABILITY & REACTIVITY

Reactivity hazards:	None known
Chemical stability:	Stable at ambient conditions
Conditions to avoid:	None known
Incompatible materials:	Fluorine, strong oxidizing or reducing agents, bases, metals, sulfur trioxide, phosphorous pentoxide. Do Not mix directly with chlorine or with chlorinated water containing more than 400 ppm total chlorine, or with other household chemicals.
Hazardous decomposition products:	Oxides of phosphorous

11. TOXICOLOGICAL INFORMATION

Acute toxicity:	**Acute Oral:**	LD_{50} (estimate): ≥ 3200 mg/kg	Based on Ingredients
	Acute Dermal:	LD_{50} (estimate): > 5000 mg/kg	Based on Ingredients
	Inhalation:	LC_{50} (estimate): > 20 mg/L	Based on Ingredients

Skin corrosion/irritation:	Causes severe skin burns.
Eye damage/irritation:	Causes serious eye damage.
Respiratory/Skin sensitization:	No evidence of sensitization.
Germ cell mutagenicity:	Not available
Carcinogenicity:	No carcinogenic effects are expected due to product being comprised of FDA-approved food-grade ingredients.
Reproductive toxicity:	Occasional workplace exposure is not expected to present a hazard.
Target organ effects:	No known target organ effects.
Aspiration hazard:	Material does not present an aspiration hazard.
Potential health effects:	CORROSIVE: May cause severe skin burns and eye damage.

12. ECOLOGICAL INFORMATION

Toxicity:	LC_{50} (96-hr) fish: > 100 mg/L (estimate)	Based on Ingredients
Persistence/ degradability:	Not available	
Bioaccumulative potential:	Not available	
Mobility in soil:	Not available	
Other adverse effects:	Not available	

13. DISPOSAL CONSIDERATIONS

Disposal methods: Recover or recycle if possible. Disposal should be made in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements. The following information only applies to the material as supplied: The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. If the material as supplied becomes a waste the following hazardous waste characteristic(s) or hazardous waste listing may apply: D002 (corrosive waste).

14. TRANSPORT INFORMATION

	DOT	IMDG	IATA
UN number:	UN 1760	Not applicable	Not applicable
Proper shipping name:	Corrosive liquid, n.o.s. (Phosphoric acid)	Not regulated	Not regulated
Hazard class(es):	8	Not applicable	Not applicable
Packing group:	II	Not applicable	Not applicable
Marine Pollutant:	Not applicable		
Special precautions:	None		

15. REGULATORY INFORMATION

SARA 313: Contains no chemicals subject to SARA Title III Section 313 in quantities sufficient to trigger reporting requirements.

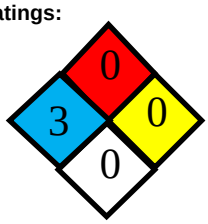
TSCA: All components of this product are included or exempt from inclusion in EPA's Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

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

16. OTHER INFORMATION

HMIS Ratings: Health – 3 | Flammability – 0 | Reactivity – 0

NFPA Ratings:



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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:	March 27, 2016	**Replaces MSDS dated:**	May 26, 2015
Changes since last revision:	Changes in Chemical properties and Reactivity		