




Aqua Chemical Supply, Inc.

183 Moore Street – Millersburg – PA – 17061
Office 717-692-7369 / 1-866-375-2782 Fax 717-692-3280

1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier	DPD Reagent #1
Recommended use	Use as directed by manufacturer for purposes directly related to water testing.
Recommended restrictions	None known
Manufacturer/Importer/Supplier/Distributor information	
Manufacturer	
	Taylor Technologies, Inc. 31 Loveton Circle Sparks, MD 21152
Emergency telephone number: For emergency assistance involving chemicals call CHEMTREC day or night at: 1-800-424-9300	

2. HAZARDS IDENTIFICATION

Physical hazards	This mixture does not meet the classification criteria according to OSHA HazCom 2012.
Health hazards	Eye damage/irritation Category 2A Skin corrosion/irritation Category 2
Environmental hazards	Not currently regulated by OSHA. For additional information, refer to section 12 of the SDS.
Label elements	
Signal word	Warning
Hazard statement	Causes serious eye irritation. Causes skin irritation.
Precautionary statement	
Prevention	Wash skin thoroughly after handling. Wear protective gloves/eye protection/face protection.
Response	IF ON SKIN: Wash with plenty of water.
IF SKIN IRRITATION OCCURS: Get medical advice/attention. Take off all contaminated clothing and wash it before reuse.	
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.	
IF EYE IRRITATION OCCURS: Get medical advice/attention If eye irritation persists: Get medical advice/attention.	
Storage required	None
Disposal	None required
Hazard(s) not otherwise classified	None
Supplemental information	None

3. COMPOSITION / INFORMATION ON INGREDIENTS

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Deionized water	Dihydrogen oxide	7732-18-5	80-90
Dipotassium phosphate	Dipotassium hydrogenphosphate; Potassium phosphate, dibasic	7758-11-4	5-10
Disodium phosphate;	Disodium hydrogenorthophosphate Sodium phosphate, dibasic	7558-79-4	5-10
Other components below reportable levels			

Composition comments: All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. FIRST AID MEASURES

Inhalation: Move to fresh air. Give oxygen or artificial respiration if needed. Get medical attention immediately.

Skin contact: Immediately wash skin with soap and water. If symptoms persist or in all cases of concern, seek medical advice.

Eye contact: Immediately flush eyes with plenty of water for at least 20 minutes. Remove contact lenses if present and easy to do. Continue rinsing. If symptoms persist or in all cases of concern, seek medical advice.

Ingestion: Treat symptomatically. Never give anything by mouth to a person who is unconscious or is having convulsions. Do NOT induce vomiting unless directed by physician. If symptoms persist or in all cases of concern, seek medical advice.

Most important symptoms/effects, acute and delayed: Indication of immediate medical attention and special treatment needed. Direct skin contact may cause slight or mild transient irritation. Symptoms may include redness and itching.

Direct eye contact may cause slight or mild transient irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Inhalation of mists can cause respiratory irritation. Symptoms may include coughing and breathing difficulties.

Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea. Provide general supportive measures and treat symptomatically.

General information: Ensure medical personnel are aware of the material(s) involved and take precautions to protect themselves.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media: Water fog. Foam. Dry chemical powder. Carbon dioxide.

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical: During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters:

Firefighting equipment/instructions

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Firefighters should wear full protective gear. Evacuate the area promptly. Fight fire from upwind to avoid exposure to combustion products. Cool containers/tanks with water spray. Do not get water inside container. Move containers from fire area if it can be done without risk. Prevent fire-extinguishing water from contaminating surface water or the ground water system.

Specific methods: Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards: No unusual fire or explosion hazards noted

Hazardous combustion products:

Carbon oxides. Phosphorous oxides. Other irritating fumes and smoke.

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 cleanup. 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 protective equipment, refer to section 8 of the SDS.

Methods and materials for containment and cleaning up: Large Spills: Dike the spilled material where this is possible. Stop leak if it can be done without risk. Absorb spillage to prevent material damage. Absorb in vermiculite, dry sand or earth, and place into containers. Prevent entry into waterways, sewer, basements, or confined areas. Following product recovery, flush area with water.

Small Spills: Absorb spillage with noncombustible, absorbent material. Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for reuse. For waste disposal, refer to section 13 of the SDS. Contaminated absorbent material may pose the same hazards as the spilled product.

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

Environmental precautions: Avoid discharge into drains, watercourses, or onto the ground.

7. HANDLING AND STORAGE

Precautions for safe handling: Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Provide adequate ventilation. Wear appropriate personal protective equipment. For personal protective equipment, refer to section 8 of the SDS. Keep away from incompatibles. Observe good industrial hygiene practices. Label containers appropriately.

Conditions for safe storage, including any incompatibilities: Store locked up. Store in corrosive-resistant container with a corrosive-resistant inner liner. Store in original tightly closed container. Keep only in the original container. Store in a cool, dry place out of direct sunlight. Store away from incompatible materials (refer to section 10 of the SDS).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limits: No occupational exposure limits noted for the ingredient(s)

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

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 safety glasses with side shields (or goggles) and a face shield. Provide an emergency eyewash fountain and quick-drench shower in the immediate work area.

Skin protection:

Hand protection: Wear appropriate chemical-resistant gloves. Advice should be sought from glove suppliers.

Other: Wear appropriate chemical-resistant clothing.

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to fumes at levels exceeding the exposure limits.

Advice should be sought from respiratory protection suppliers.

Thermal hazards: When necessary, wear appropriate thermal protective clothing.

General hygiene considerations: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking and/or smoking. Routinely wash work clothing and protective equipment to remove contamination. Avoid breathing mist or vapor.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Physical state:	Liquid
Form:	Liquid
Color:	Clear colorless or nearly colorless
Odor:	Odorless
Odor threshold:	Not available
pH:	10
Melting point/freezing point:	Not available
Initial boiling point and boiling range:	212°F (100°C)
Flash point:	Not applicable (does not burn)
Evaporation rate:	Not available
Flammability (solid, gas):	Not applicable
Upper/lower flammability or explosive limits:	
Flammability limit, lower (%):	Not applicable
Flammability limit, upper (%):	Not applicable

Explosive limit, lower (%):Not applicable
 Explosive limit, upper (%):Not applicable
 Vapor pressure: 17 mm Hg
 Vapor density: 0.64
 Relative density: 1.24 g/cm³
 Solubility(ies):
 Solubility (water): Soluble in all proportions
 Partition coefficient: Not available
 (n-octanol/water)
 Auto-ignition temperature: Not applicable
 Decomposition temperature :Not available
 Viscosity: Not available
 Other information
 Explosive properties: Not applicable
 Oxidizing properties: Not applicable
 Percent volatile: 84%
 Specific gravity: 1.24

10. STABILITY AND REACTIVITY

Reactivity: This product is stable and nonreactive under normal conditions of use, storage, and transport.
 Chemical stability: Material is stable under normal conditions.
 Possibility of hazardous reactions: No dangerous reaction known under conditions of normal use
 Conditions to avoid: Contact with incompatible materials. Do not use in areas without adequate ventilation.
 Incompatible materials: Metal compounds. Oxidizing agents. Strong acids.
 Hazardous decomposition products: None known.
 For hazardous combustion products, refer to section 5 of the SDS.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Inhalation: May cause irritation to the respiratory system.

Skin contact: May cause slight or mild transient irritation.

Eye contact: May cause severe irritation

Ingestion: May cause irritation, nausea, vomiting, and diarrhea

Most important symptoms/effects, acute and delayed: Direct skin contact may cause slight or mild transient irritation. Symptoms may include redness and itching. Direct eye contact may cause slight or mild transient irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Inhalation of mists can cause respiratory irritation. Symptoms may include coughing and breathing difficulties.

Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

Acute toxicity: This product is not classified as an acute toxicity hazard. See below for individual ingredient acute toxicity data.

Components	Species	Test Results
Disodium phosphate (CAS 7558-79-4)		
Acute		
Dermal		
LD50	Rat	Not available
Inhalation		
LC50	Rat	Not available
Oral		
LD50	Rat	17000 mg/kg
Deionized water (CAS 7732-18-5)		
Acute		
Dermal		
LD50	Rabbit	Not available
Inhalation		
LC50	Rat	Not available
Oral		
LD50	Rat	>89840 mg/kg
Skin corrosion/irritation	Causes skin irritation	

Serious eye damage/eye irritation	causes severe eye irritation
Respiratory sensitization	Not expected to be a respiratory sensitizer
Skin sensitization	Not expected to be a skin sensitizer
Germ cell mutagenicity	Not expected to be mutagenic
Carcinogenicity:	This product is not considered to be a carcinogen by IARC, NTP, OSHA, or U.S. ACGIH.
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096): Not regulated	
Reproductive toxicity:	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity, single exposure	
Specific target organ toxicity, repeated exposure	
Not classified as a specific target organ toxicity – single exposure	
Not classified as a specific target organ toxicity – repeated exposure	
Aspiration toxicity	Not expected to be an aspiration hazard
Chronic effects:	Frequent or prolonged contact may dry the skin, leading to discomfort and dermatitis.

12. ECOLOGICAL INFORMATION

Ecotoxicity	This product is not classified as environmentally hazardous; however, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.	
Components	Species	Test Results
Disodium phosphate (CAS 7558-79-4) – Aquatic		
Acute		
Algae EC50	Green algae (<i>Desmodesmus subspicatus</i>)	>100 mg/L, 72 hours
Crustacea EC50	Water flea (<i>Daphnia magna</i>)	>100 mg/L, 48 hours
Fish LC50	Rainbow trout (<i>Oncorhynchus mykiss</i>)	>100 mg/L, 96 hours
Chronic		
Algae		
NOEC	Green algae (<i>Desmodesmus subspicatus</i>)	>100 mg/L, 72 hours
Persistence and degradability:	Not available	
Bioaccumulative potential:	Not available	
Mobility in soil:	High water solubility indicates a high mobility in soil.	
Other adverse effects:	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 CONSIDERATION

Disposal instructions: Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations: Dispose in accordance with all applicable regulations.

Hazardous waste code: The waste code should be assigned in discussion with the user, the producer, and the waste disposal company.

Waste from residues/unused products: Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (refer to Disposal instructions).

Contaminated packaging: Empty containers should be taken to an approved waste-handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION

DOT Not regulated as dangerous goods

IATA Not regulated as dangerous goods

IMDG Not regulated as dangerous goods

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code - Not available

15. REGULATORY INFORMATION

U.S. federal regulations: This product is a "Hazardous Chemical" as defined by OSHA Hazard Communication Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory list.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)	Not regulated
CERCLA Hazardous Substance (40 CFR 302.4)	
Disodium phosphate (CAS 7558-79-4)	
SARA 304 Emergency Release Notification	Not regulated

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096)	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	Not regulated
SARA 311/312 Hazardous Chemical	Listed
SARA 313 (TRI reporting)	Not regulated
Other federal regulations	
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAP)	Not regulated
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)	Not regulated
Safe Drinking Water Act (SDWA)	Not regulated
U.S. state regulations	
California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)	Not regulated
Massachusetts Right-to-Know Act	Disodium phosphate (CAS 7558-79-4)
New Jersey Worker and Community Right-to-Know Act	Disodium phosphate (CAS 7558-79-4)
Pennsylvania Worker and Community Right-to-Know Act	Disodium phosphate (CAS 7558-79-4)
Rhode Island Right-to-Know Act	Disodium phosphate (CAS 7558-79-4)
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.	
International inventories	
Country(ies) or region Inventory name	On inventory (yes/no)*
Australia Australian Inventory of Chemical Substances (AICS)	yes
Canada Domestic Substances List (DSL)	yes
Canada Non-Domestic Substances List (NDSL)	no
China Inventory of Existing Chemical Substances Produced or Imported in China (IECSC)	yes
Europe European Inventory of Existing Commercial Chemical Substances (EINECS)	yes
Europe European List of Notified Chemical Substances (ELINCS)	no
Japan Existing and New Chemical Substances (ENCS)	yes
Korea Existing Chemicals List (ECL)	yes
New Zealand New Zealand Inventory of Chemicals (NZIoC)	yes
Philippines Philippine Inventory of Chemicals and Chemical Substances (PICCS)	yes
United States & Puerto Rico Toxic Substances Control Act (TSCA)	yes
*A “yes” indicates that all components of this product comply with the inventory requirements administered by the governing country (ies). A “no” indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country (ies).	

16. OTHER INFORMATION

Notice

Aqua Chemical Supply, Inc. expressly disclaims all express or implied warranties of merchantability and fitness for a particular purpose, with respect to the product or information provided herein, and shall under no circumstances be liable for incidental or consequential damages.

Do not use ingredient information and/or ingredient percentages in this SDS as a product specification. For product specification information refer to a product specification sheet and/or a certificate of analysis. These can be obtained from your local Aqua Chemical Supply, Inc. sales office.

All information appearing herein is based upon data obtained from the manufacturer and/or recognized technical sources. While the information is believed to be accurate, Aqua Chemical Supply, Inc. makes no representations as to its accuracy or sufficiency. Conditions of use are beyond Aqua Chemical Supply, Inc.’s control and therefore users are responsible to verify this data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product, or from the publication or use of, or reliance upon, information contained herein.

This information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process.