



Aqua Chemical Supply, Inc.

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1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier	DPD Powder
Product code	R-0870
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	Acute toxicity, inhalation	Category 4
Environmental hazards	Not currently regulated by OSHA. For additional information, refer to section 12 of the SDS.	



Label elements	
Signal word	Warning
Hazard statement	Harmful if inhaled
Precautionary statement	
Prevention	Avoid breathing dust. Use only outdoors or in a well-ventilated area.
Response	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a physician or poison control center if you feel unwell.
Storage	Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified	
Product dust may be irritating to eyes, skin, and respiratory system. Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea.	
Supplemental information	None

3. COMPOSITION / INFORMATION ON INGREDIENTS

Mixtures	Chemical name	Common name and synonyms	CAS number	%
Potassium phosphate, monobasic MKP	Potassium dihydrogen phosphate;		7778-7-0	60-65
Sodium phosphate	Disodium hydrogenorthophosphate;		7558-79-4	30-35
	Sodium phosphate, dibasic			
Disodium dihydrate EDTA	Disodium ethylenediamine tetraacetate;		6381-92-6	0.1-5
	Ethylenediaminetetraacetic acid sodium salt			
N,N-diethylbenzene-1,4-diammonium sulfate	N,N-diethyl-p-phenylenediamine sulfate		6283-63-2	0.1-5
Trade secret				0.1-5
Trade secret				0.1-5
Other components below reportable levels				0.1-5

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, edema, drying, and cracking of the skin. Direct eye contact may cause slight or mild transient irritation. Symptoms may include stinging and tearing. Inhalation of dust 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

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters

Fire-fighting equipment/instructions

Do not use water jet as an extinguisher, as this will spread the fire. During fire, gases hazardous to health may be formed. 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 you can do it 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 Phosphorous oxides. Sodium oxides. Other irritating fumes and smoke.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures

Methods and materials for containment and cleaning up

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 dust. 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.

Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Sweep up or vacuum up spillage and collect in suitable container for later disposal. 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, water courses, or onto the ground.

7. HANDLING AND STORAGE

Precautions for safe handling Do not breathe dust. Avoid dust formation. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Avoid prolonged exposure. 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 in original tightly closed container. Store in a cool, dry place out of direct sunlight. Store away from incompatible materials (refer to section 10 of the SDS). Protect against physical damage. Use care in handling/storage.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limits No 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 dust.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance
 Physical state Solid
 Form Powder
 Color Off-white
 Odor Odorless
 Odor threshold Not available
 pH Not applicable
 Melting point/freezing point Not available
 Initial boiling point and boiling range

 Not applicable
 Flash point Not applicable (does not burn)
 Evaporation rate Not applicable
 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 Not applicable
 Vapor density Not applicable
 Relative density 1.60 g/cm³
 Solubility(ies)
 Solubility (water) >95%
 Partition coefficient(n-octanol/water) Not available
 Auto-ignition temperature Not applicable
 Decomposition temperature Not available
 Viscosity Not applicable
 Other information
 Explosive properties Not applicable

Oxidizing properties	Not applicable	
Percent volatile	Not applicable	
Specific gravity	1.60 g/cm ₃	
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	Oxidizing agents. Strong acids. Strong bases.	
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 irritation	
Eye contact	May cause irritation	
Ingestion	May cause irritation of the gastrointestinal tract	
Most important symptoms/effects, acute and delayed		
Direct skin contact may cause slight or mild transient irritation. Symptoms may include redness, edema, drying, and cracking of the skin. Direct eye contact may cause slight or mild transient irritation. Symptoms may include stinging and tearing. Inhalation of dust can cause respiratory irritation. Symptoms may include coughing and breathing difficulties. Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea.		
Acute toxicity	Harmful if inhaled	
The product data below contains the calculated ATE values for this mixture as well as individual component data.		
Components	Species	Test Results
Disodium dihydrate EDTA (CAS 6381-92-6)		
Acute		
Dermal		
LD50	Rabbit	Not available
Inhalation		
LC50	Rat	Not available
Oral		
LD50	Rat	2000 mg/kg
Disodium phosphate (CAS 7558-79-4)		
Acute		
Dermal		
LD50	Rat	>2000 mg/kg (no deaths observed)
Inhalation		
LC50	Rat	Not available
Oral		
LD50	Rat	>2000 mg/kg (no deaths observed)
N,N-diethylbenzene-1,4-diammonium sulfate (CAS 6283-63-2)		
Acute		
Dermal		
LD50	Rabbit	Not available
Inhalation		
LC50	Rat	Not available
Oral		
LD50	Rat	450 mg/kg
Potassium phosphate, monobasic (CAS 7778-77-0)		
Acute		
Dermal		
LD50	Rat	>2000 mg/kg
Inhalation		
LC50	Rat	>0.83 mg/L, 4 hours
Oral		
LD50	Rat	>2000 mg/kg

Trade secret Acute Dermal LD50	Rabbit	Not available
Inhalation LC50	Rat	Not available
Oral LD50	Rat	>2000 mg/kg
Skin corrosion/irritation	May cause slight or mild irritation	
Serious eye damage/eye irritation		
May cause 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	Not expected to cause chronic effects	
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		
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, Donaldson trout (<i>Oncorhynchus mykiss</i>) >100 mg/L, 96 hours
Chronic		
Algae	NOEC	Green algae (<i>Desmodesmus subspicatus</i>) >100 mg/L, 72 hours
Trade secret Aquatic Acute		
Crustacea	EC50	Water flea (<i>Daphnia magna</i>) 85 mg/L, 48 hours
Fish	EC50	Ide, silver or golden orfe (<i>Leuciscus idus</i>) 440–760 mg/L, 96 hours
Persistence and degradability	Not available	
Bioaccumulative potential	Bioconcentration factor (BCF)	Trade secret 3.2
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 between 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 applicable

15. REGULATORY INFORMATION

US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. One or more components are not listed on the US EPA TSCA Inventory list.	
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)		Not regulated
CERCLA Hazardous Substance list (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		Not regulated
SARA 313 (TRI reporting)		Not regulated
Other federal regulations Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) list		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 RTK - Substance List	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 Law	Disodium phosphate (CAS 7558-79-4)	
Rhode Island RTK	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)	no
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)	no
Europe	European List of Notified Chemical Substances (ELINCS)	no
Japan	Existing and New Chemical Substances (ENCS)	yes
Korea	Existing Chemicals List (ECL)	no
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)	no

*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.

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