

SAFETY DATA SHEET

According to 29 CFR 1910.1200 Hazard Communication Standard 2012 (HazCom 2012)

SECTION 1: Identification

Product identifier

Product name DPD Reagent #1 Product number R-0001; R-0001-PL

Recommended use and

restrictions

To be used in accordance with manufacturer instructions or under the direct guidance of the

Not currently regulated by OSHA. For additional information, refer to section 12 of the SDS.

manufacturer.

Manufacturer Taylor Technologies, Inc.

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Emergency phone: (800) 837-8548

SECTION 2: Hazard(s) identification

Not applicable Physical hazards

Health hazards Eye damage/irritation Category 2A Skin corrosion/irritation Category 2

Environmental hazards

Label elements

Hazard pictograms



Signal word Warning

Hazard statements Causes skin irritation. Causes serious eye irritation.

Precautionary statements

Wash skin thoroughly after handling. Wear protective gloves/protective clothing/eye Prevention

protection/face protection if contact is likely to occur.

IF ON SKIN: Wash with plenty of water. IF SKIN IRRITATION OCCURS: Get medical Response

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 PERSISTS: Get medical advice/attention.

Storage Keep tightly capped. Store out of direct sunlight between 36°F-85°F.

Disposal Not applicable Hazards not otherwise classified Not applicable

SECTION 3: Composition/information on ingredients

Mixture

Chemical name	Common name and synonyms	CAS number	% w/w
Water	Dihydrogen oxide	7732-18-5	80–90
Dipotassium phosphate	Dipotassium hydrogenphosphate	7758-11-4	5–10
Disodium phosphate	Disodium hydrogenorthophosphate	7558-79-4	5–10
Other components below reportable levels	Not applicable	Not applicable	0.1–1

SDS US

SECTION 4: First-aid measures

If inhaled

Remove individual to fresh air. Seek medical advice/attention if breathing becomes difficult or if respiratory irritation develops. Give oxygen or artificial respiration if needed.

In case of skin contact

Immediately flush skin with plenty of water for at least 20 minutes. If clothing comes in contact with the product, the clothing should be removed and laundered before reuse. Seek medical advice/attention if irritation develops.

In case of 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/attention.

If swallowed

Rinse mouth. Never give anything by mouth to a person who is unconscious or is having convulsions. Do NOT induce vomiting unless directed by physician. If vomiting occurs, keep head low so that stomach content does not get into the lungs. If symptoms persist or in all cases of concern, seek medical advice/attention.

Most important symptoms and effects, both acute and delayed

Refer to section 2 and/or section 11 of the SDS for the most important known symptoms and effects

Indication of any immediate medical attention and special treatment needed

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.

SECTION 5: Firefighting measures

Extinguishing media

Unsuitable extinguishing media Do not use a heavy water stream. Use of heavy stream of water may spread fire.

Specific hazards arising from the substance or mixture

Fire hazard Not flammable Explosion hazard Not explosive

Reactivity May be corrosive to metals

Hazardous combustion products Carbon oxides, phosphorous oxides, potassium oxides. Other irritating fumes and smoke.

Advice for firefighters

Precautionary measures Exercise caution when fighting any chemical fire; hazardous fumes will be present.

Firefighting Use water spray or fog for cooling exposed containers.

equipment/instructions

Protection during firefighting Do not enter fire area without proper protective equipment, including respiratory protection.

Other information Refer to section 9 of the SDS for flammability properties.

SECTION 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.

Environmental precautions

Avoid discharge into drains, watercourses, or onto the ground.

Methods and material for containment and cleaning up

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, sewers, 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. 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.

Reference to other sections

For exposure controls and personal protection, refer to section 8 of the SDS. For waste disposal, refer to section 13 of the SDS.

SECTION 7: Handling and storage

Personal precautions, protective equipment, and emergency procedures

Do not breathe mist or vapor. 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

Keep tightly capped. Store out of direct sunlight between 36°F–85°F. Store away from incompatible materials (refer to section 10 of the SDS).

SECTION 8: Exposure controls/personal protection

Occupational exposure limits

US ACGIH Threshold Limit Values

Not regulated

US NIOSH: Pocket Guide to Chemical Hazards

Not regulated

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

Not regulated

Biological limit values

No biological exposure limits noted for the ingredient(s)

Exposure controls

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. Eyewash facilities and emergency shower must be available when handling

this product.

Personal protective equipment

Eye/face protection Wear appropriate chemical safety goggles if contact is likely to occur.

Skin protection Wear appropriate chemical-resistant gloves and clothing if contact is likely to occur.

Body protection Wear appropriate protective 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 dust/fumes at levels exceeding the

exposure limits. Advice should be sought from respiratory protection suppliers.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state Liquid Form Liquid

Color Clear, colorless

Odor Odorless
Odor threshold Not applicable

pH 10

Evaporation rate No data available Melting point Not applicable Freezing point No data available Boiling point 212°F (100°C) Flash point Not applicable Specific gravity No data available Auto-ignition temperature Not applicable Decomposition temperature No data available Flammability (solid, gas) Not applicable Upper Flammability Limit Not applicable Lower Flammability Limit Not applicable Vapor pressure 17 mm Hg

Relative vapor density 0.64

Solubility Soluble in all proportions

Partition coefficient (n-octanol/water)

No data available

Viscosity

No data available

Explosive properties

Not applicable

Oxidizing properties

Not applicable

Percent volatile 80%

SECTION 10: Stability and reactivity

Reactivity Hazardous reactions will not occur under normal conditions.

Chemical stability Stable under recommended handling and storage conditions (refer to section 7 of the SDS)

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use

Conditions to avoidContact with incompatible materials. Do not use in areas without adequate ventilation.

Incompatible materials Metals, strong acids, strong oxidizing agents

Hazardous decomposition No

products

No hazardous decomposition products under normal conditions

SECTION 11: Toxicological information

Information on toxicological effects

Inhalation May cause irritation to the respiratory system

Skin contact Causes skin irritation

Eye contact Causes serious eye irritation

Ingestion May cause irritation, nausea, vomiting, and diarrhea

Most important

symptoms/effects, acute and

delayed

Direct skin contact causes irritation. Symptoms may include redness and itching.

Direct eye contact causes 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 product and individual

ingredient acute toxicity data.

Product Species Acute Toxicity Estimate (ATE)

DPD Reagent #1 (CAS Mixture)

Acute

Dermal

LD₅₀ Rat

Inhalation

LC₅₀ Rat

– Oral

LD₅₀ Rat

No data available

No data available

> 5000 mg/kg

Components Species Acute Toxicity Data

Disodium phosphate (CAS 7558-79-4)

Acute

Dermal

LD₅₀ Rat

No data available

Inhalation

LC₅₀ Rat No data available

Oral

 LD_{50} Rat 17000 mg/kg

Skin corrosion/irritation Causes skin irritation

Serious eye damage/eye irritation Causes serious eye irritation

Respiratory sensitization No data available

Skin sensitizationNo data availableGerm cell mutagenicityNo data available

Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Not classifiable

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096)

Not regulated

US National Toxicology Program (NTP) Report on Carcinogens

Not regulated

Reproductive toxicity

No data available

Specific target organ toxicity

No data available

(single exposure)

Specific target organ toxicity

(repeated exposure)

No data available

Aspiration hazardNo data available

SECTION 12: Ecological information

Ecotoxicity This product is not classified as environmentally hazardous.

Persistence and degradabilityNo data availableBioaccumulative potentialNo data availableMobility in soilNo data available

Other adverse effects Large or frequent spills can have a harmful or damaging effect on the environment.

SECTION 13: Disposal considerations

Collect and reclaim or dispose of in sealed containers at a licensed waste disposal site. Since emptied containers may retain product residue, follow label warnings even after container is emptied. This material and its container must be disposed of in a safe manner. Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 14: Transport information

DOT Not regulated as dangerous goodsIATA Not regulated as dangerous goodsIMDG Not regulated as dangerous goods

SECTION 15: Regulatory information

US federal regulations

CERCLA Hazardous Substance (40 CFR 302.4)

Chemical nameCAS numberReportable QuantityDisodium phosphate7558-79-45000 lbs

OSHA Hazard Communication Standard (29 CFR 1910.1200)

Chemical name CAS number

Disodium phosphate 7558-79-4

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096)

Not regulated

SARA 302 Extremely Hazardous Substance (40 CFR 355 Appendices A / B)

Not regulated

SARA 304 Emergency Release Notification

Not regulated

SARA 311/312 Hazardous Chemical

Chemical name CAS number

Disodium phosphate 7558-79-4

SARA 313 (TRI reporting)

Not regulated

TSCA Section 8(b) Chemical Inventory

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

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

Not regulated

Other federal regulations

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

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

US state regulations

California Safe Drinking Water and Toxic Enforcement Act of 1986 (California Proposition 65)

7558-79-4

Not regulated

Massachusetts Right-to-Know Act

Chemical name	CAS number	
Disodium phosphate	7558-79-4	
New Jersey Worker and Commi	unity Right-to-Know Act	
Chemical name	CAS number	
Disodium phosphate	7558-79-4	
Pennsylvania Worker and Comi	munity Right-to-Know Act	
Chemical name	CAS number	
Disodium phosphate	7558-79-4	
Rhode Island Right-to-Know Ac	t	
Chemical name	CAS number	

Disodium phosphate SECTION 16: Other information

MEDA	Rating

i A Naulig	
Health hazard	1
Fire hazard	0
Reactivity	0
Specific	N/A

Disclaimer

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