

SAFETY DATA SHEET

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

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Revision: 05/14/2021

Product identifier	
Product name	DPD Reagent #3
Product number	R-0003; R-0003-PL
Recommended use and restrictions	Water analysis. To be used in accordance with manufacturer instructions or under the dire guidance of the manufacturer.
Manufacturer	Taylor Technologies, Inc. 31 Loveton Circle Sparks, MD 21152 Local: (410) 472-4340 – 8am – 5pm EST Toll-free: (800) 837-8548 – 8am – 5pm EST
Emergency phone number	
CHEMTREC, United States	1-800-424-9300 – 24-hour service
CHEMTREC, International	+1 703-741-5970 – 24-hour service
CTION 2: Hazard(s) Identifie	cation
Physical hazards	Not applicable
Health hazards	Specific target organ toxicity, repeated exposure, oral Category 1 (thyroid)
Environmental hazards	Not currently regulated by OSHA. For additional information, refer to section 12 of the SDS
Label elements Hazard pictograms	
Signal word	Danger
Hazard statements	Causes damage to thyroid through prolonged or repeated exposure, oral route.
Precautionary statements	
Prevention	Do not breathe dust/fumes/gas/mists/vapors/spray. Wash skin thoroughly after handling. I not eat, drink, or smoke when using this product.
Response	IF EXPOSED OR CONCERNED: Get medical advice/attention if you feel unwell.
Storage	Keep tightly capped. Store out of direct sunlight between 36°F–85°F.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazards not otherwise classified	Not applicable

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Mixture			
Chemical name	Common name and synonyms	CAS number	% w/w
Water	Dihydrogen Oxide	7732-18-5	60-80
Potassium lodide	Hydriodic Acid, Potassium Salt	7681-11-0	15-40

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

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

Direct skin or eye contact may cause irritation. Symptoms may include redness or itching. Tearing of the eyes or blurred vision may occur. Inhalation may cause respiratory irritation, such as coughing. Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

Refer to section 11 of the SDS for delayed and immediate effects and chronic effects from short- and long-term exposure.

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 Suitable extinguishing media	Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	Do not use a heavy water stream. Use of heavy stream of water may spread fire.
Specific hazards arising from the s Fire hazard	substance or mixture Not flammable
Explosion hazard	Not explosive
Reactivity	Hazardous reactions will not occur under normal conditions.
Hazardous combustion products	Carbon oxides, hydrogen iodide, iodide fumes, iodine oxides, potassium oxide. During fire, gases hazardous to health may be formed.
Advice for firefighters Precautionary measures	Exercise caution when fighting any chemical fire; hazardous fumes will be present.
Firefighting equipment/instructions	Use water spray or fog for cooling exposed containers.
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

Wear appropriate protective equipment and clothing during cleanup. 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 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. Never return spills to original containers for reuse. Contaminated absorbent material may pose the same hazards as the spilled product. In the event of large 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 dust or mist. 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).

Components		Туре	Value
Potassium Iodide (CAS 7681-1	1-0)		0.01 ppm
US NIOSH: Pocket Guide to Che Not regulated	-		
US OSHA Table Z-1 Limits for A Not regulated	ir Contaminants (29	CFR 1910.1000)	
Biological limit values			
No biological exposure limits note	d for the ingredient(s)		
Exposure controls Appropriate engineering controls	should be matched ventilation, or other	to conditions. If app engineering contro	ir changes per hour) should be used. Ventilation rate blicable, use process enclosures, local exhaust Is to maintain airborne levels below recommended not been established, maintain airborne levels to an
Personal protective equipment			
Eye/face protection	Wear appropriate sa	afety glasses with s	ide shields (or goggles) if contact is likely to occur.
Skin protection	Wear appropriate ch	nemical-resistant gl	oves and clothing if contact is likely to occur.
Body protection	Wear appropriate pr	otective clothing if	contact is likely to occur
Respiratory protection	approved respirator	if there is a risk of	suitable respiratory equipment. Use a NIOSH/MSHA exposure to dust/fumes at levels exceeding the ht 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 to slightly yellow
Odor	Odorless
Odor threshold	No data available
pН	10
Evaporation rate	No data available
Melting point	No data available
Freezing point	No data available
Initial boiling point (boiling range)	No data available
Flash point	Not applicable
Specific gravity	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Flammability (solid, gas)	Not applicable
Upper Flammability Limit	No data available
Lower Flammability Limit	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available
Solubility	No data available
Partition coefficient (n-octanol/water)	No data available
Viscosity	No data available
Explosive properties	Not explosive

	Oxidizing properties	Not oxidizing			
SE	CTION 10: Stability and Read	tivity			
	Reactivity	Hazardous reactions will not occur under normal conditions of use, storage and transport.			
	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 avoid	Contact with incompatible materials. Do not use in areas without adequate ventilation.			
	Incompatible materials	Strong acids. Strong oxidizing agents. Fluorine perchlorate, mercurous chloride, metals.			
	Hazardous decomposition products	No hazardous decomposition products known.			
SE	CTION 11: Toxicological Info	rmation			
	Information on likely routes of exp	osure			
	Inhalation	Avoid inhalation of this product. Use in a well-ventilated area.			
	Skin contact	Protect exposed skin from contact. Use caution to avoid splashes.			
	Eye contact	Avoid close eye contact; Use caution to avoid splashes. Wear eye protection.			
	Ingestion	Avoid accidental ingestion by observing good hygiene practices. Wash hands thoroughly after handling this product.			
	Symptoms related to the physical, chemical, and toxicological characteristics	Prolonged exposure to iodides may produce iodism in sensitive individuals. Symptoms of exposure include skin rash, running nose, headache, and irritation of the mucous membrane. In severe cases, skin may show pimples, boils, hives, blisters, and black and blue spots.			
		Refer to section 4 of the SDS for most important symptoms and effects.			
	Delayed and immediate effects and chronic effects from short- and long-term exposure				
	Acute toxicity	This product is not classified as an acute toxicity hazard.			
	Skin corrosion/irritation	No data available			
	Serious eye damage/eye irritation	No data available			
	Respiratory sensitization	No data available			
	Skin sensitization	No data available			
	Germ cell mutagenicity	No data available			
	Carcinogenicity				
	IARC Monographs. Overall Evaluation of Carcinogenicity Not classified				
	Not regulated	ıbstances (29 CFR 1910.1001-1096)			
	US National Toxicology Program Not classified	n (NTP) Report on Carcinogens			
	Reproductive toxicity	No data available			
	Specific target organ toxicity (single exposure)	No data available			
	Specific target organ toxicity (repeated exposure)	Causes damage to thyroid through prolonged or repeated exposure, oral route.			
	Aspiration hazard	No data available			
SE	CTION 12: Ecological Inform	ation			
	Ecotoxicity	This product is not classified as environmentally hazardous.			
	Persistence and degradability	No data available			
	Bioaccumulative potential	No data available			

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.

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

No data available

Mobility in soil

Other adverse effects

CTION 14: Transport Inf	formation
DOT	Not regulated as dangerous goods
ΙΑΤΑ	Not regulated as dangerous goods
IMDG	Not regulated as dangerous goods
CTION 15: Regulatory Ir	nformation
US federal regulations CERCLA Hazardous Subs Not regulated	stance (40 CFR 302.4)
SARA 302 Extremely Haza Not regulated	ardous Substance (40 CFR 355 Appendices A / B)
SARA 304 Emergency Rel Not regulated	lease Notification
SARA 311/312 Hazardous	Chemical
Chemical name	CAS number
Potassium Iodide SARA 313 (TRI reporting) Not regulated	7681-11-0
•	cal Inventory ne U.S. EPA TSCA Inventory list. rt Notification (40 CFR 707, Subpt. D)
Other federal regulations Clean Air Act (CAA) Section Not regulated	on 112 Hazardous Air Pollutants (HAPs)
Clean Air Act (CAA) Section Not regulated	on 112® Accidental Release Prevention (40 CFR 68.130)
Clean Water Act, Toxic an Not regulated	nd Priority Pollutants (40 CFR 401.15 and CFR 423, Appendix A)
Safe Drinking Water Act (SDWA)
US state regulations	
California Safe Drinking V Not regulated	Vater and Toxic Enforcement Act of 1986 (California Proposition 65)
Massachusetts Right-to-K Not regulated	ínow Act
New Jersey Worker and C Not regulated	Community Right-to-Know Act
Pennsylvania Worker and Not regulated	Community Right-to-Know Act
Rhode Island Right-to-Kn	ow Act
Not regulated	
CTION 16: Other Inform	ation
NFPA Rating	
Health hazard	2

Reactivity	0
Specific	N/A

Disclaimer

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This document embodies significant change(s) that may impact classification, safe handling, or health information for the associated product(s). The information contained herein should be reviewed in its entirety before handling material.