

SAFETY DATA SHEET

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

ECTION 1: Identification		
Product identifier		
Product name	DPD Reagent #3	
Product number	R-0003; R-0003-PL	
Recommended use and restrictions	To be used in accordance with manufacturer instructions or under the direct guidance of the manufacturer.	
Manufacturer	Taylor Technologies, Inc. 31 Loveton Circle Sparks, MD 21152 Phone: (410) 472-4340 Emergency phone: (800) 837-8548	
ECTION 2: Hazard(s) identifi	cation	
Physical hazards	Not applicable	
Health hazards	Not applicable	
Environmental hazards	Not currently regulated by OSHA. For additional information, refer to section 12 of the SDS.	
Label elements		
Hazard pictograms	Not applicable	
Signal word	Not applicable	
Hazard statements	Not applicable	
Precautionary statements		
Prevention	Avoid contact with skin, eyes, or clothing. For contact with skin or eyes, flush 20 minutes with water. If ingested, contact physician or local poison control center. Treat symptoms as needed	
Response	This reagent is not defined as a hazardous chemical per OSHA's Hazard Communication Standard 2012; however, use care when handling.	
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	70–80
Potassium Iodide	Not available	7681-11-0	10–20
Other components below reportable levels	Not applicable	Not applicable	0.1–1

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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.

ECTION 5: Firefighting meas	sures	
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	substance or mixture	
Fire hazard	Not flammable	
Explosion hazard	Not explosive	
Reactivity	Hazardous reactions will not occur under normal conditions.	
Hazardous combustion products	Carbon oxides, hydrogen iodide, iodine fumes, iodine oxides, potassium oxide. Other irritating fumes and smoke.	
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 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 recover, 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 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

Components	Туре	Value
Potassium iodide (CAS 7681-11-0)	TWA	0.01 mg/m ³ (Inhalable fraction and vapor)

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 or nearly colorless
Odor	Odorless
Odor threshold	Not applicable
рН	7.6
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	0.6
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	82.4%

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 avoid	Contact with incompatible materials. Do not use in areas without adequate ventilation.	
Incompatible materials	Oxidizing agents, metals, and strong acids.	
Hazardous decomposition products	No hazardous decomposition products under normal conditions.	

SECTION 11: Toxicological information

Information on toxicological effe			
Inhalation	May cause irritation to the res		
Skin contact	May cause slight or mild transient irritation		
Eye contact	May cause slight or mild transient irritation		
Ingestion	May cause irritation, nausea, vomiting, and diarrhea		
Most important symptoms/effects, acute and	Direct skin contact may cause slight or mild transient irritation. Symptoms may include r and itching.		
delayed	Direct eye contact may cause tearing, redness, swelling, an	e slight or mild transient irritation. Symptoms may include stinging, d blurred vision.	
	Inhalation of mists can cause breathing difficulties.	respiratory irritation. Symptoms may include coughing and	
	Ingestion may cause gastroin	testinal irritation, nausea, vomiting, and diarrhea.	
	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. For severe cases the skin may show pimples, boils, hives, blisters, and black and blue spots. Iodides are readily diffused across the placenta. Neonatal deaths from respiratory distress secondary to goiter have been reported. Iodides have been known to cause drug-induced feve which are usually of short duration.		
Acute toxicity	This product is not classified a ingredient acute toxicity data.	as an acute toxicity hazard. See below for product and individual	
Product	Species	Acute Toxicity Estimate (ATE)	
DPD Reagent #3 (CAS mixture)			
Acute			
Dermal			
LD ₅₀	Rat	>5000 mg/kg	
Inhalation			
LC ₅₀	Rat	No data available	
Oral			
LD ₅₀	Rat	>5000 mg/kg	
Components	Species	Acute Toxicity Data	
Potassium iodide (CAS 7681-11-	-0)		
Acute			
Dermal			
LD ₅₀	Rat	>2000 mg/kg	
Inhalation			
LC ₅₀	Rat	No data available	
Oral			
LD ₅₀	Rat	2,500 mg/kg	
Skin corrosion/irritation	May cause slight or mild tran	sient irritation	
Serious eye damage/Eye irritation	May cause slight or mild trans	sient irritation	
Respiratory sensitization	No data available		
Skin sensitization	No data available		
Germ cell mutagenicity	No data available		
Carcinogenicity			
IARC Monographs. Overall Ev Not classifiable	valuation of Carcinogenicity		
OSHA Specifically Regulated Not regulated	Substances (29 CFR 1910.100 ⁻	1-1096)	
	om (NTD) Bonort on Coroinog	ans	
US National Toxicology Progr	am (NTP) Report on Carcinoo		

Reproductive toxicity	No data available
Specific target organ toxicity (single exposure)	No data available
Specific target organ toxicity (repeated exposure)	No data available
Aspiration hazard	No data available
ECTION 12: Ecological inforr	mation
Ecotoxicity	This product is not classified as environmentally hazardous.
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Other adverse effects	Large or frequent spills can have a harmful or damaging effect on the environment.
residue, follow label warnings even Dispose of contents/container in acc	sealed containers at a licensed waste disposal site. Since emptied containers may retain product after container is emptied. This material and its container must be disposed of in a safe manner cordance with local/regional/national/international regulations.
ECTION 14: Transport inform	nation
DOT	Not regulated as dangerous goods
ΙΑΤΑ	Not regulated as dangerous goods
IMDG	Not regulated as dangerous goods
ECTION 15: Regulatory infor	mation
US federal regulations	
CERCLA Hazardous Substanc	e (40 CFR 302.4)
Not regulated	
OSHA Hazard Communication	Standard (29 CFR 1910.1200)
Not regulated	
-	Substances (29 CFR 1910.1001-1096)
Not regulated	
-	us Substance (40 CFR 355 Appendices A / B)
Not regulated	
5	NetHistian
SARA 304 Emergency Release	Notification
Not regulated	
SARA 311/312 Hazardous Che	mical
Not regulated	
SARA 313 (TRI reporting) Not regulated	
TSCA Section 8(b) Chemical Ir	iventory
All components are on the U.S	
TSCA Section 12(b) Export No Not regulated	tification (40 CFR 707, Subpt. D)
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	12 Hazardous Air Pollutants (HAPs)
Not regulated	
Clean Air Act (CAA) Section 11 Not regulated	12(r) Accidental Release Prevention (40 CFR 68.130)
	A)

US state regulations

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

Not regulated

Massachusetts Right-to-Know Act

Not regulated

New Jersey Worker and Community Right-to-Know Act

Not regulated

Pennsylvania Worker and Community Right-to-Know Act

Not regulated

Rhode Island Right-to-Know Act

Not regulated

SECTION 16: Other information		
NFPA Rating		
Health hazard	0	
Fire hazard	0	
Reactivity	0	
Specific	N/A	

Disclaimer

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