

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.