

SAFETY DATA SHEET

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

SECTION 1: Identification

Product identifier

Product name DPD Reagent #2
Product number R-0002; R-0002-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.

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SECTION 2: Hazard(s) identification

Physical hazards No data available

Health hazardsEye damage/irritationCategory 1Skin corrosion/irritationCategory 1B

Environmental hazards No data available

Label elements

Hazard pictograms



Signal word Danger

Hazard statements Causes severe skin burns and eye damage

Precautionary statements

Prevention Do not breathe dusts or mists. Wash skin thoroughly after handling. Wear protective

gloves/protective clothing/eye protection/face protection if contact is likely to occur.

Response IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (OR HAIR): Take off

immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a physician or poison control center. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a

physician or poison control center.

Storage Keep tightly capped. Store out of direct sunlight between 36°F–85°F. Store locked up.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazards not otherwise

classified

reportable levels

No data available

SECTION 3: Composition/information on ingredients **Mixture Chemical name** Common name and synonyms **CAS** number % Dihydrogen oxide 7732-18-5 Water 85-95 Not available Trade secret Not available 5-15 Other components below <1

SECTION 4: First-aid measures

If inhaled

Remove individual to fresh air. Seek medical 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 attention if irritation develops. Chemical burns must be treated by a physician.

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. Call a physician or poison control center immediately.

If swallowed

Call a physician or poison control center immediately. 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.

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.

Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep person under observation. Symptoms may be delayed.

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 substance or mixture

Fire hazard Not flammable Explosion hazard Not explosive

Reactivity Hazardous reactions will not occur under normal conditions.

Hazardous combustion

products

Carbon dioxide, carbon monoxide, nitrogen oxides, phosphorous oxides, and sulfur oxides

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. Never return spills to original containers for reuse. Dilute acid with water and neutralize with dilute base. If not recoverable, dilute with water or flush to holding area and neutralize. 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 locked up. Store away from incompatible materials (refer to section 10 of the SDS).

SECTION 8: Exposure controls/personal protection

Occupational exposure limits No occupational exposure limits noted for the ingredient(s) **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 No data available

Hq 1.3

Evaporation rate No data available Melting point No data available No data available Freezing point Boiling point 212°F (100°C) Flash point No data available Auto-ignition temperature No data available Decomposition temperature No data available Flammability (solid, gas) No data available

Vapor pressure 17 mm Hg Relative vapor density 0.65

Soluble in all proportions Solubility

Partition coefficient (n-octanol/water)

No data available

No data available Viscosity Explosive properties No data available Oxidizing properties No data available

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 Alkalis, metal nitrates, metals, strong bases, and strong oxidizers

SECTION 11: Toxicological information

Information on toxicological

effects

Inhalation May cause irritation to the respiratory system

Skin contact Causes severe skin burns

Eye contact Causes serious eye damage
Ingestion Causes digestive tract burns

Most important

symptoms/effects, acute and

delayed

Direct skin contact may cause corrosive skin burns, deep ulcerations, and possibly permanent

scarring.

Direct contact with concentrated solutions may be corrosive to the eyes and may cause severe damage, including blindness. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision.

Inhalation of mists can cause severe respiratory irritation. Symptoms may include coughing, choking,

and wheezing. Inhalation could result in pulmonary edema (fluid accumulation). Symptoms of

pulmonary edema (chest pain, shortness of breath) may be delayed.

Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus, and possibly the digestive tract. Symptoms may include abdominal pain, vomiting, burns, perforations, bleeding.

Acute toxicity This product is not classified as an acute toxicity hazard. See below for individual ingredient acute

toxicity data.

No data available

Components **Test Results** Species Trade secret Acute Dermal LD_{50} Rabbit 7940 mg/kg Oral LD_{50} Rat 2400 mg/kg Respiratory or skin No data available sensitization Germ cell mutagenicity No data available Carcinogenicity No data available Reproductive toxicity No data available Specific target organ toxicity No data available (single exposure)

SECTION 12: Ecological information

(repeated exposure)
Aspiration hazard

Specific target organ toxicity No data available

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.

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

UN number UN3265

UN proper shipping name Corrosive liquid, acidic, organic, N.O.S. (Phosphorous-based organic acid)

Transport hazard class(es)

Class 8
Subsidiary risk Not listed

Label(s) 8
Packing group III

Read safety instructions, SDS, and emergency procedures before handling. Special precautions for user

Special provisions B2, IB2, T11, TP2, TP27

Packaging exceptions 154 Packaging, non-bulk 202 Packaging, bulk 242

IATA

UN number UN3265

UN proper shipping name Corrosive liquid, acidic, organic, N.O.S. (Phosphorous-based organic acid)

Transport hazard class(es)

Class

Not listed Subsidiary risk Packing group Ш Environmental hazards Not listed ERG code 8L

Special precautions for user

Other information

Read safety instructions, SDS, and emergency procedures before handling.

Passenger and cargo Allowed

aircraft

Cargo aircraft only Allowed

IMDG

UN3265 **UN** number

UN proper shipping name Corrosive liquid, acidic, organic, N.O.S. (Phosphorous-based organic acid)

Transport hazard class(es)

Class

Subsidiary risk Not listed Packing group Ш

Environmental hazards

Marine pollutant Not listed **EmS** F-A. S-B

Read safety instructions, SDS, and emergency procedures before handling. Special precautions for user

This substance/mixture is not intended to be transported in bulk.

Transport in bulk according to Annex II of MARPOL 73/78

and the IBC Code

DOT



IATA: IMDG



SECTION 15: Regulatory information

No data available

SECTION 16: Other information

NFPA Rating

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

Disclaimer

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