

# MSDS

DPD INDICATOR SOLUTION

## Material Safety Data Sheet

### Section 1: Chemical Product and Company Identification

<b>Catalog Number:</b> 2655, D-150	
<b>Product Identity:</b> DPD INDICATOR SOLUTION	
<b>Manufacturer's Name:</b> RICCA CHEMICAL COMPANY LLC	<b>Emergency Contact(24 hr) -- CHEMTREC®</b> Domestic: 800-424-9300 International: 703-527-3887
<b>CAGE Code:</b> 4TCW6, 0V553, 4XZQ2	
<b>Address:</b> 448 West Fork Dr Arlington, TX 76012	<b>Telephone Number For Information:</b> 817-461-5601
<b>Date Prepared:</b> 10/18/00	<b>Revision: 3</b>  Last Revised: 06/30/2006 Date Printed: 05/20/2010 5:03:46 pm

### Section 2: Composition/Information on Ingredients

Component	CAS Registry #	Concentration	ACGIH TLV	OSHA PEL
N, N-Diethyl-1, 4-phenylenediamine Sulfate (DPD Sulfate)	6283-63-2	< 0.2	Not Available	Not Available
			Not Available	Not Available
Ethylenediaminetetraacetic Acid (EDTA) Disodium Dihydrate	6381-92-6	<0.1	Not Available	Not Available
			Not Available	Not Available
Sulfuric Acid	7664-93-9	<1	Not Available	Not Available
			1 mg/m3	1 mg/m3
Water, Deionized	7732-18-5	Balance	Not Available	Not Available
			Not Available	Not Available

### Section 3: Hazard Identification

**Emergency Overview:** This solution contains a very low concentration of a toxic substance and may be harmful if ingested. If ingested, dilute with water or milk and call a physician if necessary. Wash areas of contact with water. For eyes, get medical attention.

**Target Organs:** eyes, skin, upper respiratory system, mucous membranes.

**Eye Contact:** May cause slight irritation.

**Inhalation:** May cause irritation

**Skin Contact:** May cause slight irritation.

**Ingestion:** Large doses may cause gastrointestinal upset.

**Chronic Effects/Carcinogenicity:** None



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IARC - No.

NTP - No.

OSHA - No.

**Reproductive Information:** Reproductive effects cited in 'Registry of Toxic Effects of Chemical Substances' for N, N-Diethyl-1, 4-phenylenediamine Sulfate (DPD Sulfate). Reproductive effects cited in 'Registry of Toxic Effects of Chemical Substances' for Sulfuric Acid. Reproductive effects cited in **Teratology (Birth Defect) Information:** Mutation data cited in 'Registry of Toxic Effects of Chemical Substances' for Ethylenediaminetetraacetic Acid (EDTA) Disodium Dihydrate. Mutation data cited in 'Registry of Toxic Effects of Chemical Substances' for N, N-Diethyl-1, 4-phenylenediamine Sulfate (DPD)

### Section 4: First Aid Measures - In all cases, seek qualified evaluation.

**Eye Contact:** Irrigate immediately with large quantity of water for at least 15 minutes. Call a physician if irritation develops.

**Inhalation:** Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen.

**Skin Contact:** Wash areas of contact with soap and water for at least 15 minutes. Call a physician if irritation develops.

**Ingestion:** Dilute with water or milk. Do not induce vomiting. Call a physician if necessary.

### Section 5: Fire Fighting Measures

**Flash Point:** Not Available.

**Method Used:** Not Available.

**LFL:** Not Available.

**UFL:** Not Available.

**Extinguishing Media:** Use any means suitable for extinguishing surrounding fire.

**Fire & Explosion Hazards:** Contact with most metals causes formation of flammable and explosive hydrogen gas. However, the risk is reduced due to the weak concentration of Sulfuric Acid present.

**Fire Fighting Instructions:** Use normal procedures/instructions.

**Fire Fighting Equipment:** Use protective clothing and breathing equipment appropriate for the surrounding fire.

### Section 6: Accidental Release Measures

Cover the spill with Sodium Carbonate or a soda ash-slaked lime mixture (50:50). Mix and add water to form slurry. Decant the liquid to the drain with excess water. Treat the solid residue as normal refuse. Wash site with soda ash solution. Always dispose of in accordance with local regulations.

### Section 7. Handling and Storage

As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage.

**Safety Storage Code:** General

### Section 8: Exposure Control/Personal Protection

**Engineering Controls:** No specific controls are needed. Normal room ventilation is adequate.

**Respiratory Protection:** Normal room ventilation is adequate.

**Skin Protection:** Chemical resistant gloves.

**Eye Protection:** Safety glasses or goggles.

### Section 9: Physical and Chemical Properties

**Appearance:** clear, colorless to light pink liquid

**Odor:** Odorless

**Solubility in Water:** Infinite

**Specific Gravity:** Approximately 1

**pH:** Not Available.

**Boiling Point(°C):** Approximately 100

**Melting Point(°C):** Approximately 0

**Vapor Pressure:** Not Applicable.

### Section 10: Stability and Reactivity

**Chemical Stability:** Stable under normal conditions of use and storage. Refrigeration will help in the stability of this product. . Refrigeration may produce EDTA crystals but this does not affect product quality.

**Incompatibility:** Organics, chlorates, carbides, fulminates, picrates, alkalines, reducing agents, nitrates, Acetic Acid, oxidizing agents, metals.

**Hazardous Decomposition Products:** When heated to decomposition, can emit highly toxic/poisonous gases and fumes, including toxic oxides of Sulfur.

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**Hazardous Polymerization:** Will not occur.

### Section 11. Toxicological Information

LD50, Oral, Rat: 2140 mg/kg (Sulfuric Acid), 2000 mg/kg (EDTA Disodium anhydrous), details of toxic effects not reported other than lethal dose value. LC50, Inhalation, Rat: (Sulfuric Acid) 510 mg/m<sup>3</sup>/2H, No toxic effect noted.

### Section 12. Ecological Information

**Ecotoxicological Information:** Concentrated Sulfuric Acid has moderate acute and chronic toxicity to aquatic life. Insufficient data are available on the long-term effects of Sulfuric Acid to aquatic life, plants, birds, or land animals.

**Chemical Fate Information:** Small quantities of acids will be neutralized by the alkalinity in aquatic ecosystems.

### Section 13. Disposal Considerations

Neutralize with soda ash or Calcium Carbonate. Wash the resulting solution down the drain with excess water. Treat the solid residue as normal refuse. Always dispose of in accordance with local, state and federal regulations.

### Section 14. Transport Information

Part Numbers:

This product is not regulated.

### Section 15. Regulatory Information (Not meant to be all inclusive - selected regulation represented)

**OSHA Status:**The above items either do not contain any specifically hazardous material or the potentially hazardous material is present in such low concentration that the items do not present any immediate threat to health and safety. These items do not meet the OSHA Hazard Communication Standard (29 CFR 1910.1200) definition of a hazardous material.

**TSCA Status:**All components of this solution are listed on the TSCA Inventory or are mixtures (hydrates) of items listed on the TSCA Inventory.

Sara Title III:

**Section 302 Extremely Hazardous Substances:**Not Applicable.

**Section 311/312 Hazardous Categories:**No

**Section 313 Toxic Chemicals:**Not Applicable.

**California:** None Reported.

**Pennsylvania:** Ethylenediaminetetraacetic Acid (EDTA) Disodium Dihydrate is listed as an Environmental Hazard on the state's Hazardous Substances List. Sulfuric Acid is listed as an Environmental Hazard on the state's Hazardous Substances List. Sulfuric Acid is listed as an Environmental Hazard on the state's Hazardous Substances List. Ethylenediaminetetraacetic Acid (EDTA) Disodium Dihydrate is listed as an Environmental Hazard on the state's Hazardous Substances List.

**RCRA Status:** Not Applicable.

**CERCLA Reportable Quantity:** Ethylenediaminetetraacetic Acid (EDTA) Disodium Dihydrate - 5000 pounds. Sulfuric Acid - 1,000 pounds. Sulfuric Acid - 1,000 pounds. Ethylenediaminetetraacetic Acid (EDTA) Disodium Dihydrate - 5000 pounds.

**WHMIS:** Not Applicable.

### Section 16. Other Information

NFPA Ratings:

Health: 1

Flammability: 0

Reactivity: 0

Special Notice Key:None

HMIS Ratings:

Health: 1

Flammability: 0

Reactivity: 0

Protective Equipment:B (Protective Eyewear, Gloves)



For RICCA, SpectroPure, Red Bird, and Solutions Plus Brands

Emergency Contact(24 hr) -- CHEMTREC®

Domestic: 800-424-9300

International: 703-527-3887

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Rev 1, 10-09-2001: Reformatted to electronic data format.

Rev 2, 04-12-2005: Reviewed and approved for distribution; (Section 15) revised hazardous categories to 'No'.

Rev 3, 06-30-2006: (Section 1) added Red Bird catalog number D-150.

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration of its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and RICCA CHEMICAL COMPANY assumes no legal responsibility or liability whatsoever resulting from its use.