

DPD REAGENT #2

Product: R-0002

Section 1: PRODUCT INFORMATION

Chemical family: Acidic organic amine solution.

Supplier: Lowry & Associates
Agents for Taylor Technologies Inc.
4 – 1151 Gorham Street
Newmarket, Ontario
L3Y 7V1
Tel: 905-836-0505
Fax: 905-895-4539.

Emergency Phone Number: Canutec 613-996-6666.
410-472-4340

Manufacturer: Taylor Technologies Inc.
31 Loveton Circle
Sparks, MD USA 21152
Tel: 410-472-4340.

TDG classification: Not regulated.

WHMIS classification:

D2B



DSL status: Not available.

Section 2: HAZARDOUS INGREDIENTS

| C.A.S. | CONCENTRATION % | Ingrédient | V.L.E. | DL/50 | CL/50 |
|-----------|-----------------|-----------------------------------------|---------------|---------------|---------------|
| 6283-63-2 | < 1 | N,N-DIETHYL-P-PHENYLENE-DIAMINE SULFATE | NOT AVAILABLE | NOT AVAILABLE | NOT AVAILABLE |
| | < 10 | ORGANIC ACID | NOT AVAILABLE | NOT AVAILABLE | NOT AVAILABLE |

Section 2A: ADDITIONAL INGREDIENT INFORMATION

Note: Balance: water (CAS# 7732-18-5).
(supplier).
Organic acid: LD50 2400 mg/kg – rat oral.
Organic acid: LD50 >7940 mg/kg – rabbit dermal.
Organic Acid: HMIRC Reg. No. 4634 (Granted October 14, 2003).

Section 3: PHYSICAL DATA

Physical state: Liquid.

Appearance & odor: Odourless.
Colourless.

Odor threshold (ppm): None

Vapour pressure (mmHg): 17

Vapour density (air=1): 0.65

Volatiles (%)

By volume: 99

**Evaporation rate
(butyl acetate = 1):** Not available.

Boiling point (°C): 100

Freezing point (°C): 0

pH: 1.3

Specific gravity @ 20 °C: 1.01

Solubility in water (%): Soluble.

Coefficient of water\oil dist.: Not available.

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| Section 4: FIRE & EXPLOSION DATA |
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Flammability: Not flammable.

Conditions of flammability: Surrounding fire.

Extinguishing media: Suitable for surrounding fire.

Special procedures: Self-contained breathing apparatus required.
Firefighters should wear the usual protective gear.

Auto-ignition temperature: Not applicable.

Flash point (°C), method: Not applicable.

**Lower flammability
limit (% vol):** Not applicable.

**Upper flammability
limit (% vol):** Not applicable.

Explosion Data

Sensitivity to static discharge: Not applicable.

Sensitivity to mechanical impact: Not applicable.

Hazardous combustion products: Carbon monoxide (CO).
Hydrogen gas (H₂).
Carbon dioxide (CO₂).
Sulfur oxides (SO_x).
Nitrogen oxides (NO_x).
Phosphine.
Phosphorus oxides (PO_x).

Explosive power: Not applicable.

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| Section 5: REACTIVITY DATA |
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Chemical stability: Stable under normal conditions.

Conditions of instability: Extreme temperatures.
Extreme heat.

Hazardous polymerization: No

Incompatible substances: Metals.
Strong caustics.
Oxidizers.

Hazardous decomposition products: See hazardous combustion products.

Section 6: TOXICOLOGICAL PROPERTIES

Route of entry: Ingestion and skin contact.

Effects of acute exposure

Eye contact: Irritant.

Skin contact: May cause dermatitis.
Irritant.

Inhalation: May be harmful if inhaled.

Ingestion: Irritant.
May cause gastro-intestinal irritation.
May cause nausea and diarrhea.
May cause cramps.
Toxic

Effects of chronic exposure: Pre-existing eye and skin disorders may be aggravated by exposure to this product.

LD50 of product, species & route: Not available for mixture, see the ingredients section.

LC50 of product, species & route: Not available.

Exposure limit of material: Not available for mixture, see the ingredients section.

Sensitization to product: Not available.

Carcinogenic effects: Not listed as a carcinogen.

Reproductive effects: Not available.

Teratogenicity: Not available.

Mutagenicity: Not available.

Synergistic materials: Not available.

Section 7: PREVENTATIVE MEASURES

Precautionary Measures

Gloves/Type:



Wear protective gloves.

Respiratory/Type: None required under normal use.




NIOSH approved respirator, if necessary.

Eye/Type: 

Safety glasses.

Footwear/Type: Safety shoes per local regulations.

Clothing/Type: 

Lab coat.

Other/Type: Eye wash facility should be in close proximity.
Emergency shower should be in close proximity.

Ventilation requirements: Provide sufficient mechanical ventilation to maintain exposure below TLV.

Leak/Spill: Absorb with inert material.
Wear appropriate protective equipment.
Neutralize with soda ash.
Place in a closed container for disposal.

Waste disposal: In accordance with municipal, provincial and federal regulations.

Handling procedures and equipment: Avoid breathing vapors/mists.
Use adequate ventilation.
Wear personal protective equipment appropriate to task.
Wash thoroughly after handling.
Avoid contact with skin, eyes and clothing.
Launder contaminated clothing prior to reuse.
Do not ingest.

Storage requirements: Keep out of direct sunlight.
Store in a cool and dry place.

Special shipping information: Not regulated.

Section 8: FIRST AID MEASURES

Skin contact: Remove contaminated clothing.
Get medical attention.
Wash thoroughly with soap and water.

Eye contact: Immediately flush eyes with large amounts of water for at least 20 minutes, or until the chemical is removed, lifting upper and lower lids. Obtain prompt medical attention.

Inhalation: Remove victim to fresh air.
If irritation occurs, consult a physician.

Ingestion: Do not induce vomiting, seek medical attention.
Give diluted milk of magnesia.
Drink a large amount of water.
Never give anything by mouth to an unconscious or convulsing person, or one who is rapidly losing consciousness.

Additional information: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any inaccuracies.

Section 9: ADDITIONAL INFORMATION

General note: This material safety data sheet was prepared from information obtained from various sources, including product suppliers and the Canadian Center for Occupational Health and Safety.

Data prepared by: Lowry & Associates
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