

# **Safety Data Sheet**

Revision Date Jan-12-2015 **Revision Number** 0

### 1. Identification of the Substance/Preparation and of the Company/Undertaking

Product identifier

**Product name DPD 1R Test Tablet** 

Other means of identification

**Product Code(s)** 6999

Recommended use of the chemical and restrictions on use

**Recommended Use** Test kit reagent for water testing. Laboratory chemicals. Research and Development.

Professional users.

Details of the supplier of the safety data sheet

**Manufacturer Address** LaMotte Company, Inc. 802 Washington Avenue P.O. Box 329

Chestertown, MD 21620 USA

T 410-778-3100 F 410-778-9748

**Emergency telephone number** 

24 Hour Emergency Number (CHEM-TEL):USA, Canada, Puerto Rico 1-800-255-3924 Outside North American Continent (Call collect) 813-248-0585

#### 2. HAZARDS IDENTIFICATION

Carcinogenicity	Category 1B
Reproductive Toxicity	Category 1B

#### **EMERGENCY OVERVIEW**

#### DANGER

#### Hazard statements

May cause cancer. May damage fertility or the unborn child.



Appearance White to off-white

Physical state solid Tablet

**Odor** Odorless

#### **Precautionary Statements - Prevention**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.

#### **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention.

#### **Precautionary Statements - Storage**

Store locked up.

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant.

#### Other Hazards

May be harmful in contact with skin

#### **Unknown Acute Toxicity**

59% of the mixture consists of ingredient(s) of unknown toxicity

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature of the preparation Mixture of organic and inorganic compounds.

Chemical name	CAS-No	Weight %
N,N-Diethyl-p-phenylenediamine sulfate	6283-63-2	1
Excipient	-	1-10
Boric acid	10043-35-3	9
Citric acid	77-92-9	13
Carbonate salt	-	10-20
Excipient	-	10-20
Phosphate salt	-	20-30

LaMotte Company proprietary formulation under the State of New Jersey Trade Secret Protection Law, assigned the NJTSRN 80100291-5003p, and may be disclosed only in a medical emergency

#### 4. FIRST AID MEASURES

#### **FIRST AID MEASURES**

**General advice** Do not get in eyes, on skin, or on clothing.

**Eye contact**Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

**Skin contact**Wash off immediately with soap and plenty of water for at least 15 minutes while removing

all contaminated clothing and shoes. Consult a physician.

**Inhalation** Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial

respiration and contact emergency personnel. Call a physician immediately.

Induce vomiting, but only if victim is fully conscious. Drink plenty of water. Clean mouth with

water. Never give anything by mouth to an unconscious person. Consult a physician.

<u>Protection of First-aiders</u> Use personal protective equipment. See Section 8 for more detail. Do not use

mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper

respiratory medical device.

Notes to Physician May cause sensitization of susceptible persons. Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Water spray, dry chemical, carbon dioxide (CO<sub>2</sub>), or foam.

### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full

protective gear.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

**Personal precautions** Refer to Section 8. Use personal protective equipment.

**Environmental precautions** See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

**Methods for containment**Prevent dust cloud. Sweep up in a manner that does not dispurse dust and shovel into

suitable containers for disposal. Dispose according to local regulations, if permitted dissolve

in water and rinse to drain.

Methods for cleaning up Keep in suitable and closed containers for disposal. After cleaning, flush away traces with

water.

### 7. HANDLING AND STORAGE

Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Prevent contact with

skin, eyes, and clothing. Do not ingest. Do not eat, drink, or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool, and well-ventilated place. Keep out of the

reach of children. Keep away from direct sunlight.

**Incompatible Products**None known based on information supplied.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
N,N-Diethyl-p-phenylenediamine sulfate 6283-63-2	-	-	None Established
Excipient	TWA: 10 mg/m <sup>3</sup>	TWA: 15 mg/m³ TWA: 5 mg/m³	TWA: 1 mg/m <sup>3</sup>
Boric acid 10043-35-3	6 mg/m³ STEL (inhalable fraction, listed under Borate compounds, inorganic) 6 mg/m³ STEL (inhalable fraction) TWA: 2 mg/m³	-	None Established
Citric acid 77-92-9	-	-	None Established
Carbonate salt	-	-	None Established
Excipient	-	-	None Established
Phosphate salt	-	-	None Established

Appropriate engineering controls

Engineering Measures Showers

Eyewash stations

Ventilation systems. Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Revision Date Jan-16-2015

**Eye/face Protection** Safety glasses with side-shields. Avoid contact with eyes.

**Skin and body protection** Wear latex or nitrile gloves.

**Respiratory protection** None required under normal usage.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes and clothing. Wear suitable gloves and eye/face protection. Wash hands and face before breaks and immediately after handling the product. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical statesolid TabletAppearanceWhite to off-whiteOdorOdorless

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH 6 (1 tablet in 10mL of water)

Melting point/freezing pointNo information availableBoiling Point/RangeNo information availableFlash pointNo information available

**Evaporation rate** 

Flammability (solid, gas) No information available

Flammability Limit in Air

Upper flammability limit:
Lower flammability limit:
Vapor pressure
Vapor density
Specific gravity

No information available
No information available
No information available
No information available

Water solubility Soluble in water

No information available Solubility in other solvents No information available **Partition coefficient Autoignition temperature** No information available **Decomposition temperature** No information available Kinematic viscosity No information available No information available Dynamic viscosity No information available **Explosive properties** No information available **Oxidizing properties** 

**Other Information** 

Softening pointNo information availableMolecular weightNo information availableVOC ContentNo information availableDensityNo information availableBulk densityNo information available

#### 10. STABILITY AND REACTIVITY

Stability Stable.

**Hazardous Reactions** Hazardous polymerization does not occur.

**Hazardous polymerization** Hazardous polymerization does not occur.

Conditions to avoid Exposure to air or moisture over prolonged periods. Extremes of temperature and direct

sunlight.

**Incompatible materials**None known based on information supplied.

Hazardous decomposition products None under normal use.

\_\_\_\_\_

#### 11. TOXICOLOGICAL INFORMATION

**Product Information** May cause eye, skin, and respiratory tract irritation.

Information on likely routes of exposure

**Component Information** 

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
N,N-Diethyl-p-phenylenediamine sulfate 6283-63-2	None Established	None Established	None Established
Excipient	> 5 g/kg (Rat)	> 2 g/kg (Rabbit)	> 5800 mg/m³ (Rat) 4 h
Boric acid 10043-35-3	= 2660 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	> 0.16 mg/L (Rat)4 h
Citric acid 77-92-9	= 3000 mg/kg ( Rat )	None Established	None Established
Carbonate salt	= 1870 mg/kg (Rat)	None Established	None Established
Excipient	> 10 g/kg (Rat)	None Established	None Established
Phosphate salt	None Established	> 4640 mg/kg ( Rabbit )	None Established

Information on toxicological effects

**Carcinogenicity**The table below indicates whether each agency has listed any ingredient as a carcinogen.

Carcinogernoity	1110 (0010)	JOIOW III GIOGLOG WITOLITOT CACI	Tagonoy hao notoa any mg	rodioni do a caromogom
Chemical name	ACGIH	IARC	NTP	OSHA
N,N-Diethyl-p-phenylenedia mine sulfate 6283-63-2	-	None Established	None Established	-
Excipient	-	None Established	None Established	-
Boric acid 10043-35-3	=	Group 2A	None Established	Х
Citric acid 77-92-9	-	None Established	None Established	-
Carbonate salt	-	None Established	None Established	-
Excipient	-	None Established	None Established	-
Phosphate salt	-	None Established	None Established	-

IARC: (International Agency for Research on Cancer)

Group 2A - Probably Carcinogenic to Humans

**Reproductive toxicity** Product is or contains a chemical which is a known or suspected reproductive hazard.

Contains a known or suspected reproductive toxin.

**Developmental toxicity** No information available.

**Teratogenic** May cause harm to the unborn child.

Target organ effects No information available.

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (dermal) 3129 mg/kg

LD50 Oral: Oral Rat LD50: 195mg/kg for N,N-Diethyl-p-phenylenediamine sulfate

# 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

Unknown Aquatic Toxicity 78.3% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical name	Toxicity to Algae	Toxicity to Fish	Daphnia Magna (Water Flea)
N,N-Diethyl-p-phenylenediamine sulfate 6283-63-2	None Established	None Established	None Established
Excipient	None Established	None Established	None Established
Boric acid	None Established	1020: 72 h Carassius auratus	115 - 153: 48 h Daphnia magna

10043-35-3		mg/L LC50 flow-through	mg/L EC50
Citric acid	None Established	1516: 96 h Lepomis macrochirus	120: 72 h Daphnia magna mg/L
77-92-9		mg/L LC50 static	EC50
Carbonate salt	None Established	None Established	None Established
Excipient	None Established	None Established	None Established
Phosphate salt	None Established	None Established	None Established

#### Persistence and degradability

No data is available on the product itself.

### **Bioaccumulation/Accumulation**

No information available.

Chemical name	Log Pow
N,N-Diethyl-p-phenylenediamine sulfate 6283-63-2	None Established
Excipient	None Established
Boric acid 10043-35-3	-0.757
Citric acid 77-92-9	-1.72
Carbonate salt	None Established
Excipient	None Established
Phosphate salt	None Established

# 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Method** 

Dispose of in accordance with local regulations. Can be incinerated, when in compliance with local regulations. Should not be released into the environment.

Contaminated packaging

Dispose of in accordance with local regulations.

Chemical name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
N,N-Diethyl-p-phenylenedia mine sulfate 6283-63-2	None Established	-	None Established	None Established
Excipient	None Established	-	None Established	None Established
Boric acid 10043-35-3	None Established	-	None Established	None Established
Citric acid 77-92-9	None Established	-	None Established	None Established
Carbonate salt	None Established	-	None Established	None Established
Excipient	None Established	-	None Established	None Established
Phosphate salt	None Established	-	None Established	None Established

Chemical name	RCRA - Halogenated	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
	Organic Compounds			
N,N-Diethyl-p-phenylenedia mine sulfate 6283-63-2	None Established	None Established	None Established	None Established
Excipient	None Established	None Established	None Established	None Established
Boric acid 10043-35-3	None Established	None Established	None Established	None Established

Citric acid 77-92-9	None Established	None Established	None Established	None Established
Carbonate salt	None Established	None Established	None Established	None Established
Excipient	None Established	None Established	None Established	None Established
Phosphate salt	None Established	None Established	None Established	None Established

Chemical name	California Hazardous Waste Status
N,N-Diethyl-p-phenylenediamine sulfate 6283-63-2	-
Excipient	-
Boric acid 10043-35-3	-
Citric acid 77-92-9	-
Carbonate salt	-
Excipient	-
Phosphate salt	-

# 14. TRANSPORT INFORMATION

**DOT** Not regulated

ICAO Not regulated

IATA Not regulated

IMDG/IMO Not regulated

RID Not regulated

### 15. REGULATORY INFORMATION

**International Inventories** 

**TSCA** Complies **DSL/NDSL** Complies **EINECS/ELINCS** Complies Complies **ENCS** Complies **IECSC** Complies **KECL** Complies **PICCS AICS** Complies

#### Leaend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

### **U.S. Federal Regulations**

### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	SARA 313 - Threshold Values %	
N,N-Diethyl-p-phenylenediamine sulfate 6283-63-2	None Established	
Excipient	None Established	
Boric acid 10043-35-3	None Established	
Citric acid 77-92-9	None Established	
Carbonate salt	None Established	
Excipient	None Established	
Phosphate salt	None Established	

SARA 311/312 Hazard Categories

Acute health hazard Yes
Chronic Health Hazard Yes
Fire hazard No
Sudden release of pressure hazard No
Reactive Hazard No

### **Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
N,N-Diethyl-p-phenylenedia mine sulfate 6283-63-2	None Established	None Established	None Established	None Established
Excipient	None Established	None Established	None Established	None Established
Boric acid 10043-35-3	None Established	None Established	None Established	None Established
Citric acid 77-92-9	None Established	None Established	None Established	None Established
Carbonate salt	None Established	None Established	None Established	None Established
Excipient	None Established	None Established	None Established	None Established
Phosphate salt	None Established	None Established	None Established	None Established

### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	RQ
N,N-Diethyl-p-phenylenediamine sulfate 6283-63-2	<u>-</u>	None Established	-
Excipient	-	None Established	-
Boric acid 10043-35-3	-	None Established	-
Citric acid 77-92-9	-	None Established	-
Carbonate salt	-	None Established	-

Excipient	-	None Established	-
Phosphate salt	-	None Established	-

# U.S. State Regulations

#### **California Proposition 65**

Chemical name	California Prop. 65	
N,N-Diethyl-p-phenylenediamine sulfate 6283-63-2	None Established	
Excipient	None Established	
Boric acid 10043-35-3	None Established	
Citric acid 77-92-9	None Established	
Carbonate salt	None Established	
Excipient	None Established	
Phosphate salt	None Established	

### **U.S. State Right-to-Know Regulations**

Chemical name	New Jersey	Massachusetts	Pennsylvania
N,N-Diethyl-p-phenylenediamine sulfate 6283-63-2	None Established	None Established	None Established
Excipient	Χ	X	X
Boric acid 10043-35-3	None Established	None Established	None Established
Citric acid 77-92-9	None Established	None Established	None Established
Carbonate salt	None Established	None Established	None Established
Excipient	None Established	None Established	None Established
Phosphate salt	None Established	None Established	None Established
16. OTHER INFORMATION			

NFPAHealth hazard 1Flammability 0Instability 0Physical and Chemical Hazards N/AHMISHealth hazard 1Flammability 0Physical hazards 0Personal precautions N/A



Prepared by

Regulatory Affairs Department

6999 / DPD 1R Test Tablet

Issuing DateNov-15-2010Revision DateJan-16-2015

**Reason for revision** Update to Format New US GHS format

**Disclaimer** 

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of MSDS**