

Issuing Date 10/11/2011

Revision Number 0

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name DPD 1B
Product Code(s) 6741
Recommended Use Test kit reagent. Industrial (not for food or food contact use). Laboratory chemicals.
Company LaMotte Company, Inc.
802 Washington Avenue
P.O. Box 329
Chestertown, MD 21620
USA
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

WARNING!

Emergency Overview

Harmful if swallowed
Can cause severe irritation to eyes, skin, and respiratory system
May cause burns to the eyes

Appearance Clear, colorless

Physical State Liquid

Odor Odorless

Potential Health Effects

Principle Routes of Exposure Skin and eye contact, Ingestion.

Acute Toxicity

Eyes Contact with eyes causes severe irritation. Causes irritation, redness, and pain. Risk of serious damage to eyes.

Skin May be harmful in contact with skin. Causes irritation. Symptoms can include redness, itching, and pain.

Inhalation May be harmful if inhaled. May cause irritation of respiratory tract.

Ingestion May be harmful if swallowed.

Chronic Effects

Repeated contact may cause allergic reactions in very susceptible persons

Main Symptoms

Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing.

Aggravated Medical Conditions

None known.

Environmental Hazard

No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Chelant	-	<1
Phosphorous acid	13598-36-2	<0.2
N,N-Diethyl-p-phenylenediamine sulfate	6283-63-2	<1
Phosphate salt	-	1-5
Carboxylic acid	-	1-5
Etidronic acid	2809-21-4	1-5
Water	7732-18-5	to 100%

Ingredients not specifically listed by name are proprietary to the LaMotte Company, registered under the State of New Jersey Trade Secret protection law, assigned the NJTSRN#80100291-5026p, and may be disclosed only in a medical emergency.

4. FIRST AID MEASURES

General Advice	Do not get in eyes, on skin, or on clothing.
Eye Contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Immediate medical attention is required.
Skin Contact	Wash off immediately with soap and plenty of water for at least 15 minutes while removing all contaminated clothing and shoes. Call a physician immediately.
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Consult a physician.
Ingestion	Drink plenty of water. Clean mouth with water. Never give anything by mouth to an unconscious person. Consult a physician.
Notes to Physician	May cause sensitization of susceptible persons.
Protection of First-aiders	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.

5. FIRE-FIGHTING MEASURES

Flammable Properties	Not a fire hazard.			
Flash Point	Not applicable			
Suitable Extinguishing Media	Water spray, dry chemical, carbon dioxide (CO ₂), or foam.			
Explosion Data				
NFPA	Health Hazard 1	Flammability 0	Stability 0	Physical and Chemical Hazards N/A
HMIS	Health Hazard 2	Flammability 0	Stability 0	

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment. Refer to Section 8.
Methods for Containment	Absorb/Cover spill with sodium bicarbonate or sodium carbonate to neutralize, then place in a chemical waste container for later disposal.
Methods for Cleaning Up	If local regulations permit, dissolve and rinse to drain with excess water. Following product recovery, flush area with water.

7. HANDLING AND STORAGE

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.
Storage	Store in original container. Keep containers tightly closed in a dry, cool, and well-ventilated place. Keep away from direct sunlight. Keep away from heat. Keep out of the reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Chelant	None Known	None Known	None Known
Phosphorous acid 13598-36-2	None Known	None Known	None Known
N,N-Diethyl-p-phenylenediamine sulfate 6283-63-2	None Known	None Known	None Known
Phosphate salt	None Known	None Known	None Known
Carboxylic acid	None Known	None Known	None Known
Etidronic acid 2809-21-4	None Known	None Known	None Known
Water 7732-18-5	None Known	None Known	None Known

Personal Protective Equipment

Eye/Face Protection

Safety glasses with side-shields. Avoid contact with eyes.

Skin and Body Protection

Wear latex or nitrile gloves.

Respiratory Protection

Maintain adequate ventilation.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, colorless	Odor	Odorless
Physical State	Liquid	pH	1.4-1.7
Flash Point	Not applicable	Boiling Point/Range	> 100°C/212°F
Freezing Point	No information available		
Explosion Limits	Not applicable		
Molecular Weight	No data available	Water Solubility	Soluble in water
Vapor Pressure	<17 mmHg @ 20°C	Vapor Density	<1(Air = 1)

10. STABILITY AND REACTIVITY

Stability	Stable.
Incompatible Products	Alkalis. Metals. Strong oxidizing agents.
Conditions to Avoid	Excessive heat. Direct sunlight.
Hazardous Decomposition Products	Hazardous decomposition products formed under fire conditions - . Carbon oxides (COx).
Hazardous Polymerization	Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information Product does not present an acute toxicity hazard based on known or supplied information.

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

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Chelant	None Known	None Known	None Known
Phosphorous acid	1500 mg/kg (Rat)	None Known	None Known
N,N-Diethyl-p-phenylenediamine sulfate	None Known	None Known	None Known
Phosphate salt	None Known	4640 mg/kg (Rabbit)	None Known
Carboxylic acid	3000 mg/kg (Rat)	None Known	None Known
Etidronic acid	2400 mg/kg (Rat)	7940 mg/kg (Rabbit)	None Known
Water	90 mL/kg (Rat)	None Known	None Known

Chronic Toxicity

Chronic Toxicity Repeated contact may cause allergic reactions in very susceptible persons.

Chemical Name	ACGIH	IARC	NTP	OSHA
Chelant	None Known	None Known	None Known	None Known
Phosphorous acid	None Known	None Known	None Known	None Known
N,N-Diethyl-p-phenylenediamine sulfate	None Known	None Known	None Known	None Known
Phosphate salt	None Known	None Known	None Known	None Known
Carboxylic acid	None Known	None Known	None Known	None Known
Etidronic acid	None Known	None Known	None Known	None Known
Water	None Known	None Known	None Known	None Known

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors.

Chemical Name	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information
Chelant	None Known	None Known	None Known
Phosphorous acid	None Known	None Known	None Known
N,N-Diethyl-p-phenylenediamine sulfate	None Known	None Known	None Known
Phosphate salt	None Known	None Known	None Known
Carboxylic acid	None Known	None Known	None Known
Etidronic acid	None Known	None Known	None Known
Water	None Known	None Known	None Known

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Chelant	None Known	None Known	None Known	None Known
Phosphorous acid	None Known	LC50 6980 - 9784 mg/L Brachydanio rerio 96 h	None Known	None Known
N,N-Diethyl-p-phenylenediamine sulfate	None Known	None Known	None Known	None Known
Phosphate salt	None Known	None Known	None Known	None Known
Carboxylic acid	None Known	LC50= 1516 mg/L Lepomis macrochirus 96 h LC50= 440 mg/L Leuciscus idus 96 h	EC50 = 14 mg/L 15 min	EC50 = 120 mg/L 72 h
Etidronic acid	None Known	LC50= 360 mg/L Oncorhynchus mykiss 96 h LC50= 563 mg/L Lepomis macrochirus 96 h	None Known	EC50 = 527 mg/L 48 h
Water	None Known	None Known	None Known	None Known

Chemical Name	Log Pow
Chelant	None Known
Phosphorous acid	None Known
N,N-Diethyl-p-phenylenediamine sulfate	None Known
Phosphate salt	None Known
Carboxylic acid	-1.72 20 °C
Etidronic acid	= 3.49
Water	None Known

15. REGULATORY INFORMATION

International Inventories

Component	TSCA	DSL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Chelant (<1)	TSCA	X	EINECS/ELINCS	2-1265	X	KECL	X	X
Phosphorous acid 13598-36-2 (<0.2)	Present	X	X	1-421	X	KE-28491	X	X
N,N-Diethyl-p-phenylenediamine sulfate 6283-63-2 (<1)	TSCA	DSL	X	3-243	X	KECL	X	X
Phosphate salt (1-5)	Present	X	X	1-452	X	KE-28622	X	X
Carboxylic acid (1-5)	Present	X	X	2-1318	X	KE-20831	X	X
Etidronic acid 2809-21-4 (1-5)	Present	X	X	2-1866; 2-2936	X	KE-20516	X	X
Water 7732-18-5 (to 100%)	Present	X	X	ENCS	X	KE-35400	X	X

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	CAS-No	Weight %	SARA 313 - Threshold Values %
Chelant		<1	None Known
Phosphorous acid	13598-36-2	<0.2	None Known
N,N-Diethyl-p-phenylenediamine sulfate	6283-63-2	<1	None Known
Phosphate salt		1-5	None Known
Carboxylic acid		1-5	None Known
Etidronic acid	2809-21-4	1-5	None Known
Water	7732-18-5	to 100%	None Known

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
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).

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Chelant (<1)	None Known	None Known	None Known	None Known
Phosphorous acid 13598-36-2 (<0.2)	None Known	None Known	None Known	None Known
N,N-Diethyl-p-phenylenediamine sulfate 6283-63-2 (<1)	None Known	None Known	None Known	None Known
Phosphate salt (1-5)	None Known	None Known	None Known	None Known
Carboxylic acid (1-5)	None Known	None Known	None Known	None Known

Etidronic acid 2809-21-4 (1-5)	None Known	None Known	None Known	None Known
Water 7732-18-5 (to 100%)	None Known	None Known	None Known	None Known

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPS) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Chelant		<1	None Known	None Known	None Known	None Known
Phosphorous acid	13598-36-2	<0.2	None Known	None Known	None Known	None Known
N,N-Diethyl-p-phenylene nediamine sulfate	6283-63-2	<1	None Known	None Known	None Known	None Known
Phosphate salt		1-5	None Known	None Known	None Known	None Known
Carboxylic acid		1-5	None Known	None Known	None Known	None Known
Etidronic acid	2809-21-4	1-5	None Known	None Known	None Known	None Known
Water	7732-18-5	to 100%	None Known	None Known	None Known	None Known

CERCLA

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Chelant	None Known	None Known
Phosphorous acid	None Known	None Known
N,N-Diethyl-p-phenylenediamine sulfate	None Known	None Known
Phosphate salt	None Known	None Known
Carboxylic acid	None Known	None Known
Etidronic acid	None Known	None Known
Water	None Known	None Known

U.S. State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals

Chemical Name	CAS-No	California Prop. 65
Chelant		None Known
Phosphorous acid	13598-36-2	None Known
N,N-Diethyl-p-phenylenediamine sulfate	6283-63-2	None Known
Phosphate salt		None Known
Carboxylic acid		None Known
Etidronic acid	2809-21-4	None Known
Water	7732-18-5	None Known

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Chelant	None Known	None Known	None Known	None Known	None Known
Phosphorous acid	None Known	X	None Known	None Known	None Known
N,N-Diethyl-p-phenylenedia mine sulfate	None Known	None Known	None Known	None Known	None Known
Phosphate salt	None Known	None Known	None Known	None Known	None Known
Carboxylic acid	None Known	None Known	None Known	None Known	None Known
Etidronic acid	None Known	X	None Known	None Known	None Known

Water	None Known	None Known	None Known	None Known	None Known
-------	------------	------------	------------	------------	------------

International Regulations

Mexico - Grade

Chemical Name	Carcinogen Status	Exposure Limits
Chelant	None Known	None Known
Phosphorous acid	None Known	None Known
N,N-Diethyl-p-phenylenediamine sulfate	None Known	None Known
Phosphate salt	None Known	None Known
Carboxylic acid	None Known	None Known
Etidronic acid	None Known	None Known
Water	None Known	None Known

Canada

Component	WHMIS Hazard Class
Chelant (<1)	Uncontrolled product according to WHMIS classification criteria
Phosphorous acid 13598-36-2 (<0.2)	1 %
N,N-Diethyl-p-phenylenediamine sulfate 6283-63-2 (<1)	Not determined
Phosphate salt (1-5)	Uncontrolled product according to WHMIS classification criteria
Carboxylic acid (1-5)	1 % E
Etidronic acid 2809-21-4 (1-5)	Not determined
Water 7732-18-5 (to 100%)	Uncontrolled product according to WHMIS classification criteria



16. OTHER INFORMATION

NFPA	HMIS	PPE	Transport Symbol						
	<table border="1"> <tr> <td>Health Hazard</td> <td style="text-align: center;">2</td> </tr> <tr> <td>Fire Hazard</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Reactivity</td> <td style="text-align: center;">0</td> </tr> </table>	Health Hazard	2	Fire Hazard	0	Reactivity	0		
Health Hazard	2								
Fire Hazard	0								
Reactivity	0								

Prepared By Regulatory Affairs Department

Issuing Date 10/11/2011

Revision Date 13-Oct-2011

Revision Note

Initial Release

Disclaimer

The information provided on this MSDS 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