



Issuing Date Jan-24-2017

# Safety Data Sheet

OSHA format  
Revision Number 0

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product identifier

Product name DPD 1B Free Chlorine Reagent

### Other means of identification

Product Code(s) P-6741

UN-No 3265

### Recommended use of the chemical and restrictions on use

Recommended Use Use as a laboratory reagent. Industrial (not for food or food contact use). Laboratory chemicals.

### 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 numbers

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

**2. HAZARDS IDENTIFICATION**

Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1

**EMERGENCY OVERVIEW****DANGER****Hazard statements**

Causes severe skin burns and eye damage.

**Appearance** Clear, colorless**Physical state** liquid**Odor** Odorless**Precautionary Statements - Prevention**

Do not taste or swallow. Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

**Response:** Immediately call a poison center or physician.IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

**Storage:**

Store locked up.

**Disposal:**

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

**3. COMPOSITION/INFORMATION ON INGREDIENTS\***

Chemical name	CAS No.	Weight-%
Non-hazardous ingredients	N/A	balance
Phosphorous acid	13598-36-2	<0.2
DPD Sulfate	6283-63-2	<1
Carboxylic acid	*	1-5
Etidronic acid	2809-21-4	1-5
Water	7732-18-5	to 100%

If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret.

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

**4. FIRST AID MEASURES****First Aid Measures****General advice**

Do not get in eyes, on skin, or on clothing.

<b>Eye contact</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water for at least 15 minutes. Remove and isolate contaminated clothing and shoes. Wash contaminated clothing before reuse. Call a physician immediately.
<b>Inhalation</b>	Remove to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.
<b>Ingestion</b>	Do NOT induce vomiting. Drink plenty of water. Clean mouth with water. Never give anything by mouth to an unconscious person. Call a physician immediately.
<b><u>Self-protection of the first aider</u></b>	Use personal protective equipment. See section 8 for more information. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
<b>Notes to Physician</b>	May cause sensitization of susceptible persons.

## 5. FIREFIGHTING MEASURES

### **Suitable extinguishing media**

Water spray. Dry chemical. Carbon dioxide (CO<sub>2</sub>). 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**

<b>Personal precautions</b>	Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment. See section 8.
<b>Environmental precautions</b>	See Section 12 for additional Ecological Information. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

### **Methods and material for containment and cleaning up**

<b>Methods for containment</b>	Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.
<b>Methods for cleaning up</b>	Pick up and transfer to properly labeled containers. After cleaning, flush away traces with water.

## 7. HANDLING AND STORAGE

### **Precautions for safe handling**

<b>Handling</b>	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes, skin and clothing. Do not taste or swallow. Do not eat, drink or smoke when using this product.
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### **Conditions for safe storage, including any incompatibilities**

<b>Storage:</b>	Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from sunlight. Keep away from heat. Keep out of the reach of children.
<b>Incompatible Products</b>	Alkalis. Metals. Strong oxidizing agents.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Control parameters****Exposure guidelines**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Non-hazardous ingredients N/A	*-	*-	Not Established
Phosphorous acid 13598-36-2	*-	*-	Not Established
DPD Sulfate 6283-63-2	*-	*-	Not Established
Carboxylic acid	*-	*-	Not Established
Etidronic acid 2809-21-4	*-	*-	Not Established
Water 7732-18-5	*-	*-	Not Established

**Appropriate engineering controls****Engineering Measures**

Showers  
Eyewash stations  
Ventilation systems.

**Individual protection measures, such as personal protective equipment****Eye/Face Protection**

Wear safety glasses with side shields (or goggles). Avoid contact with eyes.

**Skin and body protection**

Protective gloves. Neoprene™. Nitrile rubber.

**Respiratory protection**

Use only with adequate ventilation.

**Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes, skin and clothing. Wear suitable gloves and eye/face protection. Wash hands and face before breaks and immediately after handling the product. Take off contaminated clothing and wash before reuse.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Information on basic physical and chemical properties**

Physical state	liquid	Odor	Odorless
Appearance	Clear, colorless		

Property	Values	Remarks • Method
pH	1.4	
Melting point / freezing point	No information available	
Boiling point / boiling range	No information available	
Flash point	Not Applicable	
Evaporation rate		
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit:	No information available	
Lower flammability limit:	No information available	
Vapor pressure	No information available	
Vapor density	No information available	
Specific gravity	No information available	
Water solubility	Soluble in water	
Solubility in other solvents	No information available	
Partition coefficient	No information available	
Autoignition temperature	No information available	

<b>Decomposition temperature</b>	No information available
<b>Kinematic viscosity</b>	No information available
<b>Dynamic viscosity</b>	No information available
<b>Explosive properties</b>	No information available
<b>Oxidizing properties</b>	No information available

**Other Information**

<b>Softening point</b>	No information available
<b>Molecular weight</b>	No information available
<b>VOC Content (%)</b>	No information available
<b>Density</b>	No information available
<b>Bulk density</b>	No information available

**10. STABILITY AND REACTIVITY**

<b>Stability</b>	Stable.
<b>Hazardous polymerization</b>	Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	Extremes of temperature and direct sunlight. Excessive heat.
<b>Incompatible materials</b>	Alkalis. Metals. Strong oxidizing agents.
<b>Hazardous decomposition products</b>	Hazardous decomposition products. Carbon oxides (COx).

**11. TOXICOLOGICAL INFORMATION**

<b>Product Information</b>	Product does not present an acute toxicity hazard based on known or supplied information
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**Information on likely routes of exposure****Component identification**

<b>Chemical name</b>	<b>ATEmix (oral)</b>	<b>ATEmix (dermal)</b>	<b>Inhalation LC50</b>
Non-hazardous ingredients N/A	Not Established	Not Established	Not Established
Phosphorous acid 13598-36-2	= 1895 mg/kg ( Rat )	Not Established	Not Established
DPD Sulfate 6283-63-2	Not Established	Not Established	Not Established
Carboxylic acid	= 3 g/kg ( Rat ) = 3000 mg/kg ( Rat )	Not Established	Not Established
Etidronic acid 2809-21-4	= 2400 mg/kg ( Rat )	> 7940 mg/kg ( Rabbit )	Not Established
Water 7732-18-5	> 90 mL/kg ( Rat )	Not Established	Not Established

**Information on toxicological effects**

<b>Chemical name</b>	<b>ACGIH</b>	<b>IARC</b>	<b>NTP</b>	<b>OSHA</b>
Non-hazardous ingredients N/A	Not Established	Not Established	Not Established	Not Established
Phosphorous acid 13598-36-2	Not Established	Not Established	Not Established	Not Established
DPD Sulfate 6283-63-2	Not Established	Not Established	Not Established	Not Established
Carboxylic acid	Not Established	Not Established	Not Established	Not Established
Etidronic acid 2809-21-4	Not Established	Not Established	Not Established	Not Established
Water 7732-18-5	Not Established	Not Established	Not Established	Not Established

<b>Chronic toxicity</b>	Repeated contact may cause allergic reactions in very susceptible persons.
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<b>ATEmix (oral)</b>	57,971.00 mg/kg
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**12. ECOLOGICAL INFORMATION****Ecotoxicity****Unknown Aquatic Toxicity** 2.46 % 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)
Non-hazardous ingredients N/A	Not Established	Not Established	Not Established
Phosphorous acid 13598-36-2	Not Established	6980 - 9784: 96 h Brachydanio rerio mg/L LC50 static	Not Established
DPD Sulfate 6283-63-2	Not Established	Not Established	Not Established
Carboxylic acid	Not Established	1516: 96 h Lepomis macrochirus mg/L LC50 static	120: 72 h Daphnia magna mg/L EC50
Etidronic acid 2809-21-4	Not Established	360: 96 h Oncorhynchus mykiss mg/L LC50 static 868: 96 h Lepomis macrochirus mg/L LC50 static	527: 48 h Daphnia magna mg/L EC50
Water 7732-18-5	Not Established	Not Established	Not Established

**Persistence and degradability**

No information available.

**Bioaccumulation/Accumulation**

No information available.

Chemical name	Log Pow
Non-hazardous ingredients N/A	Not Established
Phosphorous acid 13598-36-2	Not Established
DPD Sulfate 6283-63-2	Not Established
Carboxylic acid	-1.72
Etidronic acid 2809-21-4	3.49
Water 7732-18-5	Not Established

**13. DISPOSAL CONSIDERATIONS****Disposal Methods**

Dispose of waste product or used containers according to local regulations.

**Contaminated packaging**

Dispose of waste product or used containers according to local regulations.

Chemical name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Non-hazardous ingredients N/A	Not Established	-	Not Established	Not Established
Phosphorous acid 13598-36-2	Not Established	-	Not Established	Not Established
DPD Sulfate 6283-63-2	Not Established	-	Not Established	Not Established
Carboxylic acid	Not Established	-	Not Established	Not Established
Etidronic acid 2809-21-4	Not Established	-	Not Established	Not Established
Water 7732-18-5	Not Established	-	Not Established	Not Established

Chemical name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Non-hazardous ingredients	Not Established	Not Established	Not Established	Not Established

N/A				
Phosphorous acid 13598-36-2	Not Established	Not Established	Not Established	Not Established
DPD Sulfate 6283-63-2	Not Established	Not Established	Not Established	Not Established
Carboxylic acid	Not Established	Not Established	Not Established	Not Established
Etidronic acid 2809-21-4	Not Established	Not Established	Not Established	Not Established
Water 7732-18-5	Not Established	Not Established	Not Established	Not Established

Chemical name	California Hazardous Waste Status
Non-hazardous ingredients N/A	*_-
Phosphorous acid 13598-36-2	*_-
DPD Sulfate 6283-63-2	*_-
Carboxylic acid	*_-
Etidronic acid 2809-21-4	*_-
Water 7732-18-5	*_-

#### 14. TRANSPORT INFORMATION

##### DOT

**UN-No** 3265  
**Proper shipping name** CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Phosphorous Acid)  
**Hazard Class** 8  
**Packing group** III

##### TDG

Not regulated

##### MEX

Not regulated

##### ICAO

**UN-No** 3265  
**Proper shipping name** CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Phosphonic Acid)  
**Hazard Class** 8  
**Packing group** III

##### IATA

**UN-No** 3265  
**Proper shipping name** CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Phosphonic Acid)  
**Hazard Class** 8  
**Packing group** III

##### IMDG/IMO

**UN-No** 3265  
**Proper shipping name** CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Phosphonic Acid)  
**Hazard Class** 8  
**Packing group** III

##### RID

Not regulated

##### ADR

Not regulated

##### ADN

Not regulated

**15. REGULATORY INFORMATION****International Inventories**

<b>TSCA</b>	Does not comply
<b>DSL/NDSL</b>	Does not comply
<b>EINECS/ELINCS</b>	Does not comply
<b>ENCS</b>	Does not comply
<b>IECSC</b>	Does not comply
<b>KECL</b>	Does not comply
<b>PICCS</b>	Does not comply
<b>AICS</b>	Does not comply

**Legend:**

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 Chemical Substances/European 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

**US 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 %
Non-hazardous ingredients N/A	Not Established
Phosphorous acid 13598-36-2	Not Established
DPD Sulfate 6283-63-2	Not Established
Carboxylic acid	Not Established
Etidronic acid 2809-21-4	Not Established
Water 7732-18-5	Not Established

**SARA 311/312 Hazard Categories**

<b>Acute health hazard</b>	Yes
<b>Chronic Health Hazard</b>	No
<b>Fire hazard</b>	No
<b>Sudden release of pressure hazard</b>	No
<b>Reactive Hazard</b>	No

**CWA (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
Non-hazardous ingredients N/A	Not Established	Not Established	Not Established	Not Established
Phosphorous acid 13598-36-2	Not Established	Not Established	Not Established	Not Established
DPD Sulfate 6283-63-2	Not Established	Not Established	Not Established	Not Established
Carboxylic acid	Not Established	Not Established	Not Established	Not Established
Etidronic acid 2809-21-4	Not Established	Not Established	Not Established	Not Established
Water	Not Established	Not Established	Not Established	Not Established



7732-18-5				
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**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
Non-hazardous ingredients N/A	*-	Not Established	-
Phosphorous acid 13598-36-2	*-	Not Established	-
DPD Sulfate 6283-63-2	*-	Not Established	-
Carboxylic acid	*-	Not Established	-
Etidronic acid 2809-21-4	*-	Not Established	-
Water 7732-18-5	*-	Not Established	-

**US State Regulations**

Chemical name	California Proposition 65
Non-hazardous ingredients N/A	Not Established
Phosphorous acid 13598-36-2	Not Established
DPD Sulfate 6283-63-2	Not Established
Carboxylic acid	Not Established
Etidronic acid 2809-21-4	Not Established
Water 7732-18-5	Not Established

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

Chemical name	New Jersey	Massachusetts	Pennsylvania
Non-hazardous ingredients N/A	Not Established	Not Established	Not Established
Phosphorous acid 13598-36-2	X	Not Established	Not Established
DPD Sulfate 6283-63-2	Not Established	Not Established	Not Established
Carboxylic acid	Not Established	Not Established	Not Established
Etidronic acid 2809-21-4	Not Established	Not Established	Not Established
Water 7732-18-5	Not Established	Not Established	X

**CPSC (Consumer Product Safety Commission) - Specially Regulated Substances****16. OTHER INFORMATION**

<b>NFPA</b>	Health hazard 1	Flammability 0	Instability 0	Physical and Chemical Hazards N/A
<b>HMIS</b>	Health hazard 2	Flammability 0	Stability 0	



Health Hazard	2
Fire Hazard	0
Reactivity	0

**Prepared by**  
**Issuing Date**  
**Reason for revision**  
**Disclaimer**

Regulatory Affairs Department  
Jan-24-2017

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 Safety Data Sheet**