

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****Product identifier****Product name** DPD #4R Tablet**Other means of identification****Product Code(s)** 6899A**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 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****EMERGENCY OVERVIEW****Hazard statements**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Appearance** 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. Keep out of the reach of children.

**Precautionary Statements - Response**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse.

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

IF SWALLOWED. Drink 1 or 2 glasses of water. Call a physician immediately.

**Precautionary Statements - Storage**

Store locked up.

**Precautionary Statements - Disposal**

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

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

| Chemical name    | CAS No      | Weight-% |
|------------------|-------------|----------|
| Potassium salt   | Proprietary | 5-10     |
| Potassium iodide | 7681-11-0   | 5-15     |
| Boric acid       | 10043-35-3  | 12       |

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#80100291-5002p, and may be disclosed only in a medical emergency

#### 4. FIRST AID MEASURES

##### First Aid Measures

|  |  |
|--|--|
| <b>General advice</b>                            | Do not get in eyes, on skin, or on clothing.   |
| <b>Eye contact</b>                               | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.   |
| <b>Skin contact</b>                              | Wash off immediately with soap and plenty of water for at least 15 minutes. Take off contaminated clothing and wash before reuse. Consult a physician if necessary.                                |
| <b>Inhalation</b>                                | Not expected to require first aid measures. Remove to fresh air.   |
| <b>Ingestion</b>                                 | Drink plenty of water. Never give anything by mouth to an unconscious person. Consult a physician if necessary.  |
| <b><u>Self-protection of the first aider</u></b> | Use personal protection recommended in Section 8. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. |
| <b>Notes to Physician</b>                        | 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

|  |   |
|--|---|
| <b>Personal precautions</b>  | Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing.  |
| <b>Environmental precautions</b>                                   | See Section 12 for additional Ecological Information.   |
| <b><u>Methods and material for containment and cleaning up</u></b> |   |
| <b>Methods for containment</b>                                     | Sweep up in a manner that does not disperse dust and shovel into suitable containers for disposal. Dispose according to local regulations, if permitted dissolve in water and rinse to drain. |
| <b>Methods for cleaning up</b>                                     | 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 taste or swallow. 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      |
|-------------------------------|--|----------|-----------------|
| Potassium salt                | -  | -        | Not Established |
| Potassium iodide<br>7681-11-0 | TWA: 0.01 ppm  | -        | Not Established |
| Boric acid<br>10043-35-3      | 6 mg/m <sup>3</sup> STEL (inhalable fraction,<br>listed under Borate compounds,<br>inorganic) 6 mg/m <sup>3</sup> STEL<br>(inhalable fraction)<br>TWA: 2 mg/m <sup>3</sup> | -        | Not Established |

### Appropriate engineering controls

**Engineering Measures** Ensure that eyewash stations and safety showers are close to the workstation location.

### 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** 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 eyes, skin 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

### Information on basic physical and chemical properties

|                       |              |             |          |
|-----------------------|--------------|-------------|----------|
| <b>Physical state</b> | solid Tablet | <b>Odor</b> | Odorless |
| <b>Appearance</b>     | White        |             |          |
| <b>Color</b>          | White        |             |          |

| <u>Property</u>                | <u>Values</u>            | <u>Remarks • Method</u>     |
|--------------------------------|--------------------------|-----------------------------|
| pH                             | 6                        | (1 tablet in 10mL of water) |
| Melting point / freezing point | No information available |                             |
| Boiling point / boiling range  | No information available |                             |
| Flash point                    | No information available |                             |
| Evaporation rate               |                          |                             |
| Flammability (solid, gas)      | No information available |                             |
| Flammability Limit in Air      |                          |                             |
| Upper flammability limit:      | No information available |                             |

|                                     |                          |
|-------------------------------------|--------------------------|
| <b>Lower flammability limit:</b>    | No information available |
| <b>Vapor pressure</b>               | No information available |
| <b>Vapor density</b>                | No information available |
| <b>Specific gravity</b>             | No information available |
| <b>Water solubility</b>             | Soluble in water         |
| <b>Solubility in other solvents</b> | No information available |
| <b>Partition coefficient</b>        | No information available |
| <b>Autoignition temperature</b>     | 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 Reactions</b>              | Hazardous polymerization does not occur.   |
| <b>Hazardous polymerization</b>         | Hazardous polymerization does not occur.   |
| <b>Conditions to avoid</b>              | Exposure to air or moisture over prolonged periods. Extremes of temperature and direct sunlight. |
| <b>Incompatible materials</b>           | None known based on information supplied.  |
| <b>Hazardous decomposition products</b> | Hazardous decomposition products formed under fire conditions -. Hydrogen iodide. Iodine.        |

**11. TOXICOLOGICAL INFORMATION****Product Information****Information on likely routes of exposure****Component Information**

| Chemical name                 | Oral LD50            | Dermal LD50             | Inhalation LC50         |
|-------------------------------|----------------------|-------------------------|-------------------------|
| Potassium salt                | = 2600 mg/kg ( Rat ) | Not Established         | Not Established         |
| Potassium iodide<br>7681-11-0 | Not Established      | Not Established         | Not Established         |
| Boric acid<br>10043-35-3      | = 2660 mg/kg ( Rat ) | > 2000 mg/kg ( Rabbit ) | > 0.16 mg/L ( Rat ) 4 h |

**Information on toxicological effects**

| Chemical name                 | ACGIH           | IARC            | NTP             | OSHA            |
|-------------------------------|-----------------|-----------------|-----------------|-----------------|
| Potassium salt                | Not Established | Not Established | Not Established | Not Established |
| Potassium iodide<br>7681-11-0 | Not Established | Not Established | Not Established | Not Established |
| Boric acid<br>10043-35-3      | Not Established | Not Established | Not Established | Not Established |

|                        |            |
|------------------------|------------|
| <b>ATEmix (oral)</b>   | 7167       |
| <b>ATEmix (dermal)</b> | 6477 mg/kg |

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

| Chemical name                 | Toxicity to Algae                            | Toxicity to Fish  | Daphnia Magna (Water Flea)  |
|-------------------------------|--|---|---|
| Potassium salt                | 2500: 72 h Desmodesmus subspicatus mg/L EC50 | 750 - 1020: 96 h Pimephales promelas mg/L LC50 static 1060: 96 h Lepomis macrochirus mg/L LC50 static | 825: 48 h Daphnia magna mg/L EC50 83: 48 h Daphnia magna mg/L EC50 Static |
| Potassium iodide<br>7681-11-0 | Not Established                              | Not Established   | Not Established   |
| Boric acid<br>10043-35-3      | Not Established                              | 1020: 72 h Carassius auratus mg/L LC50 flow-through   | 115 - 153: 48 h Daphnia magna mg/L EC50                                   |

### Persistence and degradability

No information available.

### Bioaccumulation/Accumulation

No information available.

| Chemical name                 | Log Pow         |
|-------------------------------|-----------------|
| Potassium salt                | Not Established |
| Potassium iodide<br>7681-11-0 | Not Established |
| Boric acid<br>10043-35-3      | -0.757          |

## 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 |
|-------------------------------|-----------------|--------------------------|------------------------|------------------------|
| Potassium salt                | Not Established | -                        | Not Established        | Not Established        |
| Potassium iodide<br>7681-11-0 | Not Established | -                        | Not Established        | Not Established        |
| Boric acid<br>10043-35-3      | Not Established | -                        | Not Established        | Not Established        |

| Chemical name                 | RCRA - Halogenated Organic Compounds | RCRA - P Series Wastes | RCRA - F Series Wastes | RCRA - K Series Wastes |
|-------------------------------|--------------------------------------|------------------------|------------------------|------------------------|
| Potassium salt                | Not Established                      | Not Established        | Not Established        | Not Established        |
| Potassium iodide<br>7681-11-0 | Not Established                      | Not Established        | Not Established        | Not Established        |
| Boric acid<br>10043-35-3      | Not Established                      | Not Established        | Not Established        | Not Established        |

| Chemical name                 | California Hazardous Waste Status |
|-------------------------------|-----------------------------------|
| Potassium salt                | -                                 |
| Potassium iodide<br>7681-11-0 | -                                 |
| Boric acid<br>10043-35-3      | -                                 |

## 14. TRANSPORT INFORMATION

### DOT

Not regulated

IATA Not regulated

IMDG/IMO Not regulated

## 15. REGULATORY INFORMATION

### International Inventories

|               |                 |
|---------------|-----------------|
| TSCA          | Does not comply |
| DSL/NDSL      | Does not comply |
| EINECS/ELINCS | Does not comply |
| ENCS          | Does not comply |
| IECSC         | Does not comply |
| KECL          | Does not comply |
| PICCS         | Does not comply |
| AICS          | 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 % |
|-------------------------------|-------------------------------|
| Potassium salt                | Not Established               |
| Potassium iodide<br>7681-11-0 | Not Established               |
| Boric acid<br>10043-35-3      | Not Established               |

#### 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  |

#### 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 |
|-------------------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Potassium salt                | Not Established             | Not Established        | Not Established           | Not Established            |
| Potassium iodide<br>7681-11-0 | Not Established             | Not Established        | Not Established           | Not Established            |
| Boric acid<br>10043-35-3      | Not Established             | Not Established        | Not Established           | Not 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 |
|-------------------------------|--------------------------|-----------------|----|
| Potassium salt                | -                        | Not Established | -  |
| Potassium iodide<br>7681-11-0 | -                        | Not Established | -  |
| Boric acid<br>10043-35-3      | -                        | Not Established | -  |

### US State Regulations

#### California Proposition 65

| Chemical name                 | California Proposition 65 |
|-------------------------------|---------------------------|
| Potassium salt                | Not Established           |
| Potassium iodide<br>7681-11-0 | Not Established           |
| Boric acid<br>10043-35-3      | Not Established           |

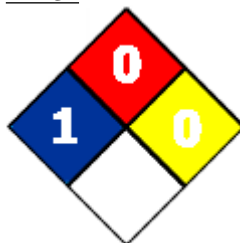
#### U.S. State Right-to-Know Regulations

| Chemical name                 | New Jersey      | Massachusetts   | Pennsylvania    |
|-------------------------------|-----------------|-----------------|-----------------|
| Potassium salt                | Not Established | Not Established | Not Established |
| Potassium iodide<br>7681-11-0 | Not Established | Not Established | Not Established |
| Boric acid<br>10043-35-3      | X               | Not Established | Not Established |

### CPSC (Consumer Product Safety Commission) - Specially Regulated Substances

## 16. OTHER INFORMATION

|             |                 |                |               |                                   |
|-------------|-----------------|----------------|---------------|-----------------------------------|
| <u>NFPA</u> | Health hazard 1 | Flammability 0 | Instability 0 | Physical and Chemical Hazards N/A |
| <u>HMIS</u> | Health hazard 1 | Flammability 0 | Stability 0   |                                   |



|               |   |
|---------------|---|
| Health Hazard | 1 |
| Fire Hazard   | 0 |
| Reactivity    | 0 |

Prepared by Regulatory Affairs Department  
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**Revision note** Boric acid classification differs between the US and EU. It is not classified in the US but it is in the EU.

#### 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 Safety Data Sheet**