

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

Product identifier

Product name DPD 1A Free Chlorine Reagent

Other means of identification

Product Code(s) P-6740

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

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

EMERGENCY OVERVIEW

Appearance Clear colorless **Physical state** liquid **Odor** None

Unknown Acute Toxicity

13.68% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical name | CAS No | Weight-% |
|-----------------------|-----------|----------|
| Sodium carbonate | 497-19-8 | <1.0 |
| Dipotassium phosphate | 7758-11-4 | 10-20 |

4. FIRST AID MEASURES

First Aid Measures

| | |
|--|--|
| Eye contact | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician. |
| Skin contact | Wash skin with soap and water. Consult a physician if necessary. |
| Inhalation | Not expected. Remove to fresh air. |
| Ingestion | Drink plenty of water. Clean mouth with water. Never give anything by mouth to an unconscious person. Consult a physician if necessary. |
| <u>Self-protection of the first aider</u> | Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protection recommended in Section 8. |

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Protective equipment and precautions for firefighters

Wear self-contained breathing apparatus and protective suit.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

| | |
|----------------------------------|---|
| Personal precautions | Avoid contact with eyes, skin and clothing. Use personal protection recommended in Section 8. |
| Environmental precautions | See Section 12 for additional Ecological Information. |

Methods and material for containment and cleaning up

| | |
|--------------------------------|--|
| Methods for containment | Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. |
| Methods for cleaning up | 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. |
| Incompatible Products | No materials to be especially mentioned. |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| Chemical name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|------------------------------------|-----------|----------|-----------------|
| Sodium carbonate 497-19-8 | - | - | Not Established |
| Dipotassium phosphate 7758-11-4 | - | - | 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). Goggles.

Skin and body protection Protective gloves. Nitrile rubber.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product. Do not eat, drink or smoke when using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| | | | |
|-----------------------|-----------------|-------------|------|
| Physical state | liquid | Odor | None |
| Appearance | Clear colorless | | |

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

| | | | |
|--------------------------------|--------------------------|-----------------|--|
| pH | 10 | | |
| Melting point / freezing point | No information available | | |
| Boiling point / boiling range | > 100 °C | | |
| Flash point | No information available | | |
| 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 | . | <17 mmHg @ 20°C | |
| Vapor density | <1 | (air=1) | |
| Specific gravity | No information available | | |
| Water solubility | No information available | | |
| Solubility in other solvents | No information available | | |
| Partition coefficient | No information available | | |
| Autoignition temperature | No information available | | |
| Decomposition temperature | No information available | | |
| Kinematic viscosity | No information available | | |
| Dynamic viscosity | No information available | | |
| Explosive properties | No information available | | |
| Oxidizing properties | No information available | | |

Other Information

| | |
|------------------|--------------------------|
| Softening point | No information available |
| Molecular weight | No information available |
| VOC Content (%) | No information available |
| Density | No information available |
| Bulk density | No information available |

10. STABILITY AND REACTIVITY

Stability Stable under recommended storage conditions.
Hazardous Reactions None under normal processing.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid Excessive heat.
Incompatible materials No materials to be especially mentioned.
Hazardous decomposition products Hazardous decomposition products formed under fire conditions -. Phosphorous oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Component Information

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|------------------------------------|----------------------|-----------------|--------------------------------------|
| Sodium carbonate 497-19-8 | = 4090 mg/kg (Rat) | Not Established | = 2300 mg/m ³ (Rat) 2 h |
| Dipotassium phosphate 7758-11-4 | Not Established | Not Established | Not Established |

Information on toxicological effects

Carcinogenicity Contains no ingredient listed as a carcinogen.

| Chemical name | ACGIH | IARC | NTP | OSHA |
|------------------------------------|-------|-----------------|-----------------|------|
| Sodium carbonate 497-19-8 | - | Not Established | Not Established | - |
| Dipotassium phosphate 7758-11-4 | - | Not Established | Not Established | - |

Chronic toxicity May sequester calcium and cause calcium phosphate deposits in the kidneys.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Unknown Aquatic Toxicity 13.68 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

| Chemical name | Toxicity to Algae | Toxicity to Fish | Daphnia Magna (Water Flea) |
|------------------------------------|--------------------------------|--|-----------------------------------|
| Sodium carbonate 497-19-8 | 242: 120 h Nitzschia mg/L EC50 | 310 - 1220: 96 h Pimephales promelas mg/L LC50 static 300: 96 h Lepomis macrochirus mg/L LC50 static | 265: 48 h Daphnia magna mg/L EC50 |
| Dipotassium phosphate 7758-11-4 | Not Established | Not Established | Not Established |

Persistence and degradability

No information available.

Bioaccumulation/Accumulation

No information available.

| Chemical name | Log Pow |
|------------------------------------|-----------------|
| Sodium carbonate 497-19-8 | Not Established |
| Dipotassium phosphate 7758-11-4 | Not Established |

13. DISPOSAL CONSIDERATIONS

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

Contaminated packaging Do not reuse empty containers.

| Chemical name | RCRA | RCRA - Basis for Listing | RCRA - D Series Wastes | RCRA - U Series Wastes |
|------------------------------------|-----------------|--------------------------|------------------------|------------------------|
| Sodium carbonate 497-19-8 | Not Established | - | Not Established | Not Established |
| Dipotassium phosphate 7758-11-4 | Not Established | - | Not Established | Not Established |

| Chemical name | RCRA - Halogenated Organic Compounds | RCRA - P Series Wastes | RCRA - F Series Wastes | RCRA - K Series Wastes |
|---------------|--------------------------------------|------------------------|------------------------|------------------------|
| | | | | |

| | | | | |
|------------------------------------|-----------------|-----------------|-----------------|-----------------|
| Sodium carbonate 497-19-8 | Not Established | Not Established | Not Established | Not Established |
| Dipotassium phosphate 7758-11-4 | Not Established | Not Established | Not Established | Not Established |

| Chemical name | California Hazardous Waste Status |
|------------------------------------|-----------------------------------|
| Sodium carbonate 497-19-8 | - |
| Dipotassium phosphate 7758-11-4 | - |

14. TRANSPORT INFORMATION

DOT Not regulated

IATA Not regulated

IMDG/IMO Not regulated

15. REGULATORY INFORMATION

International Inventories

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

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 % |
|------------------------------------|-------------------------------|
| Sodium carbonate 497-19-8 | Not Established |
| Dipotassium phosphate 7758-11-4 | 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 |
|------------------------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Sodium carbonate 497-19-8 | Not Established | Not Established | Not Established | Not Established |
| Dipotassium phosphate 7758-11-4 | 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 |
|------------------------------------|--------------------------|-----------------|----|
| Sodium carbonate 497-19-8 | - | Not Established | - |
| Dipotassium phosphate 7758-11-4 | - | Not Established | - |

US State Regulations

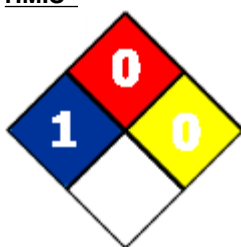
This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

| Chemical name | New Jersey | Massachusetts | Pennsylvania |
|------------------------------------|-----------------|-----------------|-----------------|
| Sodium carbonate 497-19-8 | Not Established | Not Established | Not Established |
| Dipotassium phosphate 7758-11-4 | Not Established | Not Established | Not Established |

16. OTHER INFORMATION

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



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

| | |
|---------------------|-------------------------------|
| Prepared by | Regulatory Affairs Department |
| Issuing Date | Apr-28-2015 |
| Revision Date | May-05-2015 |
| Reason for revision | 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 Material Safety Data Sheet