

Issuing Date 3/30/2014

Revision Number 0

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name FREE CHLORINE TEST SOLUTION A (DPD 1A FREE CHLORINE REAGENT)

Product Code(s) P-6740

Synonyms none

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

Emergency Overview

May cause skin and eye irritation

Appearance Clear, Colorless

Physical State Liquid

Odor None

OSHA Regulatory Status Safety information is given for exposure to the reagent as sold and considers exposure to the chemical if user has direct eye and skin contact.

Potential Health Effects

Principle Routes of Exposure Ingestion, and, Skin contact.

Acute Toxicity

Eyes May cause irritation.

Skin Substance may cause slight skin irritation.

Inhalation Not an expected route of exposure.

Ingestion May cause gastrointestinal discomfort if consumed in large amounts.

Chronic Effects

May sequester calcium and cause calcium phosphate deposits in the kidneys

Aggravated Medical Conditions Those with impaired kidney function may be more susceptible to the effects of this substance.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS-No | Weight % |
|-------------------------------|-----------|----------|
| EDTA disodium salt, dihydrate | 6381-92-6 | <0.1 |
| Sodium carbonate | 497-19-8 | <1.0 |
| Dipotassium phosphate | 7758-11-4 | 10-20 |
| Water | 7732-18-5 | to 100% |

4. FIRST AID MEASURES

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

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If irritation persists or develops, contact a physician.

Skin Contact Wash off immediately with soap and plenty of water. If irritation develops or persists, consult physician.

Inhalation Move to fresh air. If symptoms persist, call a physician.

Ingestion Drink plenty of water. Clean mouth with water. Never give anything by mouth to an unconscious person. If symptoms persist or develop contact physician.

Notes to Physician Treat symptomatically.

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

Flash Point Not applicable

Suitable Extinguishing Media Water spray, dry chemical, carbon dioxide (CO₂), or foam.

Explosion Data

Protective Equipment and Precautions for Firefighters Wear self-contained breathing apparatus and protective suit.

| | | | | |
|-------------|------------------------|-----------------------|--------------------|--|
| NFPA | Health Hazard 1 | Flammability 0 | Stability 0 | Physical and Chemical Hazards - |
| HMIS | Health Hazard 1 | Flammability 0 | Stability 0 | |

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Refer to Section 8. Avoid contact with skin, eyes, and clothing.

Methods for Containment Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Dispose according to federal, state, and local regulations.

Methods for Cleaning Up Use personal protective equipment. Containerize spill material and hold for later disposal. If local regulations permit, dissolve with large volume of water, neutralize with dilute acid (acetic, hydrochloric), then rinse to drain with excess water. After cleaning, flush away traces 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 Keep containers tightly closed in a dry, cool, and well-ventilated place. Keep out of the reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|--|------------|------------|------------|
| EDTA disodium salt, dihydrate 6381-92-6 | None Known | None Known | None Known |
| Sodium carbonate 497-19-8 | None Known | None Known | None Known |
| Dipotassium phosphate 7758-11-4 | 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. Goggles.

Skin and Body Protection

Wear protective gloves/clothing.

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

| | | | |
|----------------------------|-----------------|---------------------------------|--------------------------|
| Appearance | Clear Colorless | Odor | None |
| Physical State | Liquid | pH | 10 |
| Flash Point | Not applicable | Autoignition Temperature | Not applicable |
| Boiling Point/Range | > 100°C/212°F | Freezing Point | No information available |

| | | | |
|-----------------------|-----------------|----------------------|-------------|
| Vapor Pressure | <17 mmHg @ 20°C | Vapor Density | <1(Air = 1) |
|-----------------------|-----------------|----------------------|-------------|

10. STABILITY AND REACTIVITY

| | |
|---|---|
| Stability | Stable under normal conditions of use and storage. |
| Incompatible Products | No materials to be especially mentioned. |
| Conditions to Avoid | Excessive heat. |
| Hazardous Decomposition Products | Hazardous decomposition products formed under fire conditions - . Phosphorous oxides. |
| Hazardous Reactions | None under normal processing. |
| Hazardous Polymerization | Hazardous polymerization does not occur. |

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

| Chemical Name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|-------------------------------|--------------------|-------------|-----------------|
| EDTA disodium salt, dihydrate | None Known | None Known | None Known |
| Sodium carbonate | 4090 mg/kg (Rat) | None Known | None Known |
| Dipotassium phosphate | None Known | None Known | None Known |
| Water | 90 mL/kg (Rat) | None Known | None Known |

Chronic Toxicity

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

Carcinogenicity Contains no ingredient listed as a carcinogen.

| Chemical Name | ACGIH | IARC | NTP | OSHA |
|-------------------------------|------------|------------|------------|------------|
| EDTA disodium salt, dihydrate | None Known | None Known | None Known | None Known |
| Sodium carbonate | None Known | None Known | None Known | None Known |
| Dipotassium phosphate | None Known | None Known | None Known | None Known |
| Water | None Known | None Known | None Known | None Known |

Endocrine Disruptor Information

| Chemical Name | EU - Endocrine Disruptors Candidate List | EU - Endocrine Disruptors - Evaluated Substances | Japan - Endocrine Disruptor Information |
|-------------------------------|--|--|---|
| EDTA disodium salt, dihydrate | None Known | None Known | None Known |
| Sodium carbonate | None Known | None Known | None Known |
| Dipotassium phosphate | 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) |
|-------------------------------|-----------------------|---|------------|----------------------------|
| EDTA disodium salt, dihydrate | None Known | None Known | None Known | None Known |
| Sodium carbonate | EC50 = 242 mg/L 120 h | LC50= 300 mg/L Lepomis macrochirus 96 h | None Known | EC50 = 265 mg/L 48 h |
| Dipotassium phosphate | None Known | None Known | None Known | None Known |
| Water | None Known | None Known | None Known | None Known |

Persistence and Degradability No information available.

Bioaccumulation/Accumulation No information available.

| Chemical Name | Log Pow |
|-------------------------------|------------|
| EDTA disodium salt, dihydrate | None Known |
| Sodium carbonate | None Known |
| Dipotassium phosphate | None Known |
| Water | None Known |

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Dispose of in accordance with local regulations.

| Chemical Name | RCRA - Halogenated Organic Compounds | RCRA - P Series Wastes | RCRA - F Series Wastes | RCRA - K Series Wastes |
|---|--------------------------------------|------------------------|------------------------|------------------------|
| EDTA disodium salt, dihydrate - 6381-92-6 | None Known | None Known | None Known | None Known |
| Sodium carbonate - 497-19-8 | None Known | None Known | None Known | None Known |
| Dipotassium phosphate - 7758-11-4 | None Known | None Known | None Known | None Known |

| | | | | |
|-------------------|------------|------------|------------|------------|
| Water - 7732-18-5 | None Known | None Known | None Known | None Known |
|-------------------|------------|------------|------------|------------|

14. TRANSPORT INFORMATION

DOT Not regulated

IATA Not regulated

IMDG/IMO Not regulated

15. REGULATORY INFORMATION

International Inventories

| Component | TSCA | DSL | EINECS/ELINCS | ENCS | IECSC | KECL | PICCS | AICS |
|---|---------|-----|---------------|--------|-------|----------|-------|------|
| EDTA disodium salt, dihydrate 6381-92-6 (<0.1) | TSCA | X | EINECS/ELINCS | 2-1265 | X | KECL | X | X |
| Sodium carbonate 497-19-8 (<1.0) | Present | X | X | 1-164 | X | KE-31380 | X | X |
| Dipotassium phosphate 7758-11-4 (10-20) | Present | X | X | 1-452 | X | KE-12167 | 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 % |
|-------------------------------|-----------|----------|-------------------------------|
| EDTA disodium salt, dihydrate | 6381-92-6 | <0.1 | None Known |
| Sodium carbonate | 497-19-8 | <1.0 | None Known |
| Dipotassium phosphate | 7758-11-4 | 10-20 | 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 |
|---|-----------------------------|------------------------|---------------------------|----------------------------|
| EDTA disodium salt, dihydrate 6381-92-6 (<0.1) | None Known | None Known | None Known | None Known |
| Sodium carbonate 497-19-8 (<1.0) | None Known | None Known | None Known | None Known |
| Dipotassium phosphate 7758-11-4 (10-20) | 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)

| Chemical Name | CAS-No | Weight % | HAPS data | VOC Chemicals | Class 1 Ozone Depletors | Class 2 Ozone Depletors |
|-------------------------------|-----------|----------|------------|---------------|-------------------------|-------------------------|
| EDTA disodium salt, dihydrate | 6381-92-6 | <0.1 | None Known | None Known | None Known | None Known |
| Sodium carbonate | 497-19-8 | <1.0 | None Known | None Known | None Known | None Known |
| Dipotassium phosphate | 7758-11-4 | 10-20 | 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 |
|-------------------------------|--------------------------|------------------------------------|
| EDTA disodium salt, dihydrate | None Known | None Known |
| Sodium carbonate | None Known | None Known |
| Dipotassium phosphate | 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 |
|-------------------------------|-----------|---------------------|
| EDTA disodium salt, dihydrate | 6381-92-6 | None Known |
| Sodium carbonate | 497-19-8 | None Known |
| Dipotassium phosphate | 7758-11-4 | None Known |
| Water | 7732-18-5 | None Known |

U.S. State Right-to-Know Regulations

| Chemical Name | Massachusetts | New Jersey | Pennsylvania | Illinois | Rhode Island |
|-------------------------------|---------------|------------|--------------|------------|--------------|
| EDTA disodium salt, dihydrate | None Known | None Known | None Known | None Known | None Known |
| Sodium carbonate | None Known | None Known | None Known | None Known | None Known |
| Dipotassium phosphate | None Known | None Known | None Known | None Known | None Known |
| Water | None Known | None Known | None Known | None Known | None Known |

International Regulations

Mexico - Grade

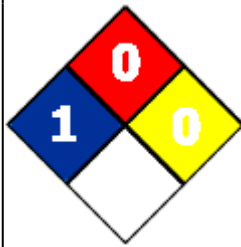

| Chemical Name | Carcinogen Status | Exposure Limits |
|-------------------------------|-------------------|-----------------|
| EDTA disodium salt, dihydrate | None Known | None Known |
| Sodium carbonate | None Known | None Known |
| Dipotassium phosphate | None Known | None Known |
| Water | None Known | None Known |

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

| Component | WHMIS Hazard Class |
|---|---|
| EDTA disodium salt, dihydrate 6381-92-6 (<0.1) | Uncontrolled product according to WHMIS classification criteria |
| Sodium carbonate 497-19-8 (<1.0) | 1 % D2B E |
| Dipotassium phosphate 7758-11-4 (10-20) | Uncontrolled product according to WHMIS classification criteria |
| 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>1</td> </tr> <tr> <td>Fire Hazard</td> <td>0</td> </tr> <tr> <td>Reactivity</td> <td>0</td> </tr> </table> | Health Hazard | 1 | Fire Hazard | 0 | Reactivity | 0 |  | |
| Health Hazard | 1 | | | | | | | | |
| Fire Hazard | 0 | | | | | | | | |
| Reactivity | 0 | | | | | | | | |

Prepared By Regulatory Affairs Department
 Issuing Date 4/18/2012
 Revision Date 20-Apr-2012
 Revision Note
 Update to Format
 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