

Safety Data Sheet

Revision Number 0

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

Product identifier

Product name Total Iron Tablets

Other means of identification

Product Code(s) 2792A UN-No 3260

Recommended use of the chemical and restrictions on use

Recommended UseUse 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

| Acute toxicity - Oral | Category 4 |
|-----------------------------------|------------|
| Acute toxicity - Dermal | Category 4 |
| Serious eye damage/eye irritation | Category 1 |

EMERGENCY OVERVIEW

DANGER

Hazard statements

Harmful if swallowed. Harmful in contact with skin. Causes serious eye damage.



Appearance Gray

Physical state powder

Odor Slight Sulphurous

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.

IF ON SKIN: Wash with plenty of soap and water.

Call a POISON CENTER or doctor/physician if you feel unwell

Wash contaminated clothing before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell, Rinse mouth

Precautionary Statements - Storage

Store in a well-ventilated place. Keep cool.

Precautionary Statements - Disposal

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

Other Hazards

Harmful to aquatic life with long lasting effects

Unknown Acute Toxicity

52.5% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical name | CAS No | Weight-% |
|----------------------|-----------|----------|
| Sodium dithionite | 7775-14-6 | 15 |
| Sodium metabisulfite | 7681-57-4 | 25-30 |

LaMotte Company proprietary formulation under the State of New Jersey Trade Secret Protection Law, assigned the NJTSRN 80100291-5013p, and may be disclosed only in a medical emergency

4. FIRST AID MEASURES

First Aid Measures

General advice Do not get in eyes, on skin, or on clothing. Show this safety data sheet to the doctor in

attendance.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

Skin contactWash off immediately with soap and plenty of water for at least 15 minutes while removing

all contaminated clothing and shoes.

Inhalation Remove to fresh air. If symptoms arise, call a physician.

Ingestion Drink plenty of water. Clean mouth with water. Never give anything by mouth to an

unconscious person. Consult a physician. Rinse mouth.

Self-protection of the first aiderUse 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.

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Water spray, dry chemical, carbon dioxide (CO₂), 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

Personal precautions See section 8.

Environmental precautions See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for containmentSweep up in a manner that does not dispurse dust and shovel into suitable containers for

disposal. Dispose according to federal, state, and local regulations.

Methods for cleaning up

Use personal protective equipment. Avoid dust formation. 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. Store away from

incompatible materials. Keep out of the reach of children.

Incompatible Products Acids. Alkalis. Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

| Chemical name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|-----------------------------------|--------------------------|----------|--------------------------|
| Sodium dithionite 7775-14-6 | - | - | Not Established |
| Sodium metabisulfite 7681-57-4 | TWA: 5 mg/m ³ | - | TWA: 5 mg/m ³ |

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 Wear protective gloves/clothing.

Respiratory protection Maintain adequate ventilation.

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

0.3g in 10mL water

Sodium metabisulfite

Physical state powder

Appearance Gray Odor Slight Sulphurous

Property Values Remarks • Method

pH 3.75

Melting point / freezing point 150 °C 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:
Lower flammability limit:
Vapor pressure
Vapor density
Specific gravity

No information available
No information available
No information available
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 **Decomposition temperature** No information available No information available Kinematic viscosity **Dynamic viscosity** No information available **Explosive properties** No information available Oxidizing properties No information available

Other Information

Softening point
Molecular weight
VOC Content (%)
Density
No information available

10. STABILITY AND REACTIVITY

Stability Stable under normal conditions of use and storage.

Hazardous Reactions None under normal processing.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid Excessive heat. Exposure to air or moisture over prolonged periods. Keep away from

children.

Incompatible materials Acids. Alkalis. Strong oxidizing agents.

Hazardous decomposition products Carbon oxides (COx). Sulfur oxides (SOx). Sodium oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Component Information

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|-----------------------------------|----------------------|-----------------|-----------------|
| Sodium dithionite 7775-14-6 | = 2500 mg/kg (Rat) | Not Established | Not Established |
| Sodium metabisulfite 7681-57-4 | = 1310 mg/kg (Rat) | > 2 g/kg (Rat) | Not Established |

Information on toxicological effects

| Chemical name ACGIH IARC NTP OSHA |
|-----------------------------------|
|-----------------------------------|

| Sodium dithionite 7775-14-6 | Not Established | Not Established | Not Established | Not Established |
|--------------------------------|-----------------|-----------------|-----------------|-----------------|
| Sodium metabisulfite 7681-57-4 | Not Established | Group 3 | Not Established | Not Established |

ATEmix (oral) 492

ATEmix (dermal) 1489 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

Unknown Aquatic Toxicity 58 % 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) |
|----------------------|--------------------------------|-----------------------------------|-------------------------------|
| Sodium dithionite | 120: 72 h Desmodesmus | 46 - 68: 96 h Leuciscus idus mg/L | 98: 48 h Daphnia magna Straus |
| 7775-14-6 | subspicatus mg/L EC50 87: 96 h | LC50 static | mg/L EC50 |
| | Desmodesmus subspicatus mg/L | | |
| | EC50 | | |
| Sodium metabisulfite | 40: 96 h Desmodesmus | 32: 96 h Lepomis macrochirus | 89: 24 h Daphnia magna Straus |
| 7681-57-4 | subspicatus mg/L EC50 48: 72 h | mg/L LC50 static | mg/L EC50 |
| | Desmodesmus subspicatus mg/L | | |
| | EC50 | | |

Persistence and degradability

No information available.

Bioaccumulation/Accumulation

No information available.

| Chemical name | Log Pow |
|-----------------------------------|-----------------|
| Sodium dithionite 7775-14-6 | Not Established |
| Sodium metabisulfite 7681-57-4 | -3.7 |

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of contents/containers in accordance with local regulations. This material, as supplied, is not a hazardous waste according to state and Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste pursuant to Federal regulations, and the applicable state requirements for the specific area of disposal. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated packaging

Do not reuse empty containers.

| Chemical name | RCRA | RCRA - Basis for Listing | RCRA - D Series Wastes | RCRA - U Series Wastes |
|-----------------------------------|-----------------|--------------------------|------------------------|------------------------|
| Sodium dithionite 7775-14-6 | Not Established | - | Not Established | Not Established |
| Sodium metabisulfite 7681-57-4 | 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 dithionite 7775-14-6 | Not Established | Not Established | Not Established | Not Established |
| Sodium metabisulfite | Not Established | Not Established | Not Established | Not Established |

| Chemical name | California Hazardous Waste Status |
|--------------------------------|-----------------------------------|
| Sodium dithionite 7775-14-6 | - |

| Sodium metabisulfite | - |
|----------------------|---|
| 7681-57-4 | |

14. TRANSPORT INFORMATION

DOT

Proper shipping name CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (SODIUM DISULPHITE)

UN-No 320
Hazard Class 8
Packing group III

<u>IATA</u>

Proper shipping name CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (SODIUM DISULPHITE)

UN-No 3260 Hazard Class 8 Packing group III

IMDG/IMO

Proper shipping name CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.(SODIUM DISULPHITE)

UN-No 3260 Hazard Class 8

15. REGULATORY INFORMATION

International Inventories

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

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 contains a chemical or 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 dithionite 7775-14-6 | Not Established |
| Sodium metabisulfite 7681-57-4 | 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 Yes

CWA (Clean Water Act)

| Chemical name | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|-----------------------------------|--------------------------------|------------------------|---------------------------|-------------------------------|
| Sodium dithionite 7775-14-6 | Not Established | Not Established | Not Established | Not Established |
| Sodium metabisulfite 7681-57-4 | 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 dithionite 7775-14-6 | - | Not Established | - |
| Sodium metabisulfite 7681-57-4 | - | Not Established | - |

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

| Chemical name | California Proposition 65 |
|-----------------------------------|---------------------------|
| Sodium dithionite 7775-14-6 | Not Established |
| Sodium metabisulfite 7681-57-4 | Not Established |

U.S. State Right-to-Know Regulations

| Chemical name | New Jersey | Massachusetts | Pennsylvania |
|-----------------------------------|------------|---------------|--------------|
| Sodium dithionite 7775-14-6 | X | X | X |
| Sodium metabisulfite 7681-57-4 | X | X | X |

CPSC (Consumer Product Safety Commission) - Specially Regulated Substances

16. OTHER INFORMATION NFPA Health hazard 2 Flammability 0 Instability 0 Physical and Chemical

Hazards N/A

Health hazard 2 Flammability 0 Stability 0



2792A Total Iron Tablets

| Health Hazard | 2 |
|---------------|---|
| Fire Hazard | 0 |
| Reactivity | 0 |

Prepared by Regulatory Affairs Department

Issuing DateFeb-10-2015Revision DateJun-25-2015

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



Safety Data Sheet

OSHA format Revision Number 0

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

Product identifier

Product name Copper HR Tablets

Other means of identification

Product Code(s) 3701A

Recommended use of the chemical and restrictions on use

Recommended UseUse as a laboratory reagent. Industrial (not for 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

OSHA Regulatory Status

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

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

Appearance purple Physical state solid Tablet Odor Odorless

EMERGENCY OVERVIEW

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.

Other Hazards

May be harmful if swallowed May cause skin and eye irritation

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3. COMPOSITION/INFORMATION ON INGREDIENTS*

| Chemical name | CAS No | Weight-% |
|------------------------|------------|----------|
| Zincon monosodium salt | 62625-22-3 | <1 |
| Boric acid | 10043-35-3 | 25 |

LaMotte Company proprietary formulation under the State of New Jersey Trade Secret Protection Law, assigned the NJTSRN 80100291-5014p, and may be disclosed only in a medical emergency

All ingredients may not be listed. Ingredients not listed do not meet the reporting requirements of the OSHA Hazard Communication Standard (HCS) as specified in 29 CFR 1910.1200.

4. FIRST AID MEASURES

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

symptoms persist, call a physician.

Skin contact Wash off immediately with soap and plenty of water for at least 15 minutes. Take off

contaminated clothing and wash before reuse. If symptoms persist, call a physician.

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

Ingestion Drink plenty of water. Do not induce vomiting without medical advice. Call a physician

immediately. Never give anything by mouth to an unconscious person.

aware of the material(s) involved, take precautions to protect themselves and prevent

spread of contamination.

5. FIREFIGHTING MEASURES

Suitable extinguishing media

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

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

Personal precautions 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 Prevent dust cloud.

Methods for cleaning up Avoid dust formation. Sweep up and shovel into suitable containers for disposal. Keep in

suitable and closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Do not taste or

swallow. Avoid contact with skin, eyes or clothing. 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. Protect from sunlight.

Incompatible Products None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

| Chemical name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|------------------------|----------------------------------|----------|-----------------|
| Zincon monosodium salt | - | - | Not Established |
| 62625-22-3 | | | |
| Boric acid | STEL: 6 mg/m3 inhalable fraction | - | Not Established |
| 10043-35-3 | TWA: 2 mg/m³ inhalable fraction | | |

Appropriate engineering controls

Engineering Measures Ensure adequate ventilation, especially in confined areas.

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 Rubber gloves. Nitrile rubber.

Respiratory protection None required under normal usage.

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

Physical state solid Tablet

Appearance purple Odor Odorless

Property Values Remarks • Method

PΗ

Melting point / freezing pointNo information availableBoiling point / boiling rangeNo information available

Flash point Not Applicable

Evaporation rate

Flammability (solid, gas) No information available

Flammability Limit in Air

Upper flammability limit:
Lower flammability limit:
Vapor pressure
Vapor density

No information available
No information available
No information available
No information available

Specific gravity
Water solubility
No information available
Soluble in water

Solubility in other solvents
Partition coefficient
No information available
No information available

Autoignition temperature
Decomposition temperature
Kinematic viscosity
Dynamic viscosity
Explosive properties
No information available

Other Information

Softening point
Molecular weight
VOC Content (%)
Density
No information available

10. STABILITY AND REACTIVITY

Stability Stable.

Hazardous Reactions Hazardous polymerization does not occur.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid Exposure to air or moisture over prolonged periods. Extremes of temperature and direct

sunlight. Keep away from children.

Incompatible materialsNone known based on information supplied.

Hazardous decomposition products

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Component identification

| Chemical name | ATEmix (oral) | ATEmix (dermal) | Inhalation LC50 |
|------------------------|--------------------|-----------------------|-----------------------|
| Zincon monosodium salt | Not Established | Not Established | Not Established |
| 62625-22-3 | | | |
| Boric acid | = 2660 mg/kg (Rat) | > 2000 mg/kg (Rabbit) | > 0.16 mg/L (Rat) 4 h |
| 10043-35-3 | | | |

Information on toxicological effects

| Chemical name | ACGIH | IARC | NTP | OSHA |
|-----------------------------------|-----------------|-----------------|-----------------|-----------------|
| Zincon monosodium salt 62625-22-3 | Not Established | Not Established | Not Established | Not Established |
| Boric acid 10043-35-3 | Not Established | Group 2A | Not Established | Not Established |

ATEmix (oral) 2,699.00 mg/kg **ATEmix (dermal)** 8,000.00 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

Unknown Aquatic Toxicity 52.1 % 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) |
|------------------------|-------------------|------------------------------|-------------------------------|
| Zincon monosodium salt | Not Established | Not Established | Not Established |
| 62625-22-3 | | | |
| Boric acid | Not Established | 1020: 72 h Carassius auratus | 115 - 153: 48 h Daphnia magna |
| 10043-35-3 | | mg/L LC50 flow-through | mg/L EC50 |

Persistence and degradability

No information available.

Bioaccumulation/Accumulation

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No information available.

| Chemical name | Log Pow |
|--------------------------------------|-----------------|
| Zincon monosodium salt 62625-22-3 | Not Established |
| Boric acid 10043-35-3 | -0.757 |

13. DISPOSAL CONSIDERATIONS

Disposal MethodsDispose of waste product or used containers according to local regulations. Can be

incinerated, when in compliance with local regulations. Should not be released into the

environment.

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 |
|---|------------------------|-----------------|--------------------------|------------------------|------------------------|
| Z | Zincon monosodium salt | Not Established | - | Not Established | Not Established |
| | 62625-22-3 | | | | |
| | Boric acid | Not Established | - | Not Established | Not Established |
| | 10043-35-3 | | | | |

| Chemical name | RCRA - Halogenated Organic Compounds | RCRA - P Series Wastes | RCRA - F Series Wastes | RCRA - K Series Wastes |
|--------------------------------------|---|------------------------|------------------------|------------------------|
| Zincon monosodium salt 62625-22-3 | Not Established | Not Established | Not Established | Not Established |
| Boric acid 10043-35-3 | Not Established | Not Established | Not Established | Not Established |

| Chemical name | California Hazardous Waste Status |
|------------------------|-----------------------------------|
| Zincon monosodium salt | - |
| 62625-22-3 | |
| Boric acid | Toxic |
| 10043-35-3 | |

14. TRANSPORT INFORMATION

DOT Not regulated

ICAONot regulatedIATANot regulatedIMDG/IMONot regulated

RID Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA Complies DSL/NDSL Complies **EINECS/ELINCS** Does not comply **ENCS** Does not comply **IECSC** Complies Does not comply **KECL PICCS** Complies Complies **AICS**

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 % |
|--------------------------------------|-------------------------------|
| Zincon monosodium salt 62625-22-3 | Not Established |
| Boric acid 10043-35-3 | Not Established |

SARA 311/312 Hazard Categories

| Acute health hazard | Yes |
|-----------------------------------|-----|
| Chronic Health Hazard | Yes |
| 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 |
|--------------------------------------|--------------------------------|------------------------|---------------------------|-------------------------------|
| Zincon monosodium salt 62625-22-3 | Not Established | Not Established | Not Established | Not Established |
| Boric acid 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 |
|------------------------|--------------------------|-----------------|----|
| Zincon monosodium salt | - | Not Established | - |
| 62625-22-3 | | | |
| Boric acid | - | Not Established | - |
| 10043-35-3 | | | |

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

| Chemical name | California Proposition 65 |
|--------------------------------------|---------------------------|
| Zincon monosodium salt 62625-22-3 | Not Established |
| Boric acid 10043-35-3 | Not Established |

U.S. State Right-to-Know Regulations

| Chemical name | New Jersey | Massachusetts | Pennsylvania |
|--------------------------------------|-----------------|-----------------|-----------------|
| Zincon monosodium salt 62625-22-3 | Not Established | Not Established | Not Established |

| Boric acid | X | Not Established | Not Established |
|------------|---|-----------------|-----------------|
| 10043-35-3 | | | |

CPSC (Consumer Product Safety Commission) - Specially Regulated Substances

NFPA Health hazard 1 Flammability 0 Instability 0 Physical and Chemical Hazards N/A



Prepared by Issuing Date Reason for revision Regulatory Affairs Department May-26-2015

(M)SDS sections updated 2 11 Software error caused EU data to be pulled into US OSHA SDS. This error incorrectly classified Boric acid as a carcinogen in the US.

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



Safety Data Sheet

Revision Number 0

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

Product identifier

Product name Nitrate CTA TesTabs

Other means of identification

Product Code(s) 3703A

Recommended use of the chemical and restrictions on use

Recommended Use Laboratory chemicals. Use as a laboratory reagent.

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

Skin sensitization Category 1

EMERGENCY OVERVIEW

WARNING

Hazard statements

May cause an allergic skin reaction.



Appearance Gray Physical state Tablet Odor Odorless

Precautionary Statements - Prevention

Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves.

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

If skin irritation or rash occurs: Get medical advice/attention

Wash contaminated clothing 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 - Disposal

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

Other Hazards

Causes mild skin irritation Very toxic to aquatic life with long lasting effects

Unknown Acute Toxicity

19% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical name | CAS No | Weight-% |
|-----------------|-----------|----------|
| Zinc; Zinc Dust | 7440-66-6 | 1 |
| Sulfanilic acid | 121-57-3 | 1 |

LaMotte Company proprietary formulation under the State of New Jersey Trade Secret Protection Law, assigned the NJTSRN 80100291-5074p, and may be disclosed only in a medical emergency

4. FIRST AID MEASURES

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

symptoms persist, call a physician.

Skin contact Wash off with warm water and soap. If skin irritation persists, call a physician.

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

Ingestion Drink plenty of water. Never give anything by mouth to an unconscious person. Consult a

physician if necessary.

aware of the material(s) involved, take precautions to protect themselves and prevent

spread of contamination.

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

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

Personal precautions 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 Prevent dust cloud. Contain and collect spillage with non-combustible absorbent material,

(e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal

according to local / national regulations (see Section 13).

Methods for cleaning up After cleaning, flush away traces with water.

7. HANDLING AND STORAGE

Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Do not taste or Handling

swallow. Avoid contact with skin, eyes or clothing. 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.

Nitric acid. Strong oxidizing agents. **Incompatible Products**

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| Chemical name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|------------------------------|-----------|----------|-----------------|
| Zinc; Zinc Dust 7440-66-6 | - | - | Not Established |
| Sulfanilic acid 121-57-3 | - | - | Not Established |

Appropriate engineering controls

Engineering Measures Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Avoid contact with eyes. If splashes are likely to occur:. Wear safety glasses with side **Eye/Face Protection**

shields (or goggles).

No special protective equipment required. Skin and body protection

None required under normal usage. Respiratory protection

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with **Hygiene Measures**

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

Tablet Physical state Gray **Appearance**

Odorless Odor

Property Values Remarks • Method

> No information available рH

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:
Lower flammability limit:
Vapor pressure
Vapor density
Specific gravity

No information available
No information available
No information available
No information available

Water solubility Soluble in water

Solubility in other solvents No information available Partition coefficient No information available No information available **Autoignition temperature 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
Molecular weight
VOC Content (%)
Density
No information available

10. STABILITY AND REACTIVITY

Stability Stable.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid Exposure to air or moisture over prolonged periods. Extremes of temperature and direct

sunlight.

Incompatible materials Nitric acid. Strong oxidizing agents.

Hazardous decomposition products Carbon oxides (COx). Nitrogen oxides (NOx). Sulfur oxides (SOx).

11. TOXICOLOGICAL INFORMATION

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

Information on likely routes of exposure

Component Information

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|------------------------------|---------------------|-----------------|-----------------|
| Zinc; Zinc Dust 7440-66-6 | Not Established | Not Established | Not Established |
| Sulfanilic acid 121-57-3 | = 12300 mg/kg (Rat) | Not Established | Not Established |

Information on toxicological effects

Sensitization No information available

| Chemical name | ACGIH | IARC | NTP | OSHA |
|-----------------|-------|-----------------|-----------------|------|
| Zinc; Zinc Dust | - | Not Established | Not Established | - |
| 7440-66-6 | | | | |
| Sulfanilic acid | - | Not Established | Not Established | - |
| 121-57-3 | | | | |

Chronic toxicity Product does not present a chronic toxicity hazard based on known or supplied information.

ATEmix (oral) 20345 ATEmix (dermal) 9396 mg/kg

Dermal LD50 No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Unknown Aquatic Toxicity 98 % 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) |
|-----------------|-----------------------------------|----------------------------------|--------------------------------|
| Zinc; Zinc Dust | 0.09 - 0.125: 72 h | 0.211 - 0.269: 96 h Pimephales | 0.139 - 0.908: 48 h Daphnia |
| 7440-66-6 | Pseudokirchneriella subcapitata | promelas mg/L LC50 semi-static | magna mg/L EC50 Static |
| | mg/L EC50 static 0.11 - 0.271: 96 | 2.16 - 3.05: 96 h Pimephales | |
| | h Pseudokirchneriella subcapitata | promelas mg/L LC50 flow-through | |
| | mg/L EC50 static | 0.24: 96 h Oncorhynchus mykiss | |
| | | mg/L LC50 flow-through 0.41: 96 | |
| | | h Oncorhynchus mykiss mg/L | |
| | | LC50 static 0.45: 96 h Cyprinus | |
| | | carpio mg/L LC50 semi-static | |
| | | 0.59: 96 h Oncorhynchus mykiss | |
| | | mg/L LC50 semi-static 2.66: 96 h | |
| | | Pimephales promelas mg/L LC50 | |
| | | static 3.5: 96 h Lepomis | |
| | | macrochirus mg/L LC50 static 30: | |
| | | 96 h Cyprinus carpio mg/L LC50 | |
| | | 7.8: 96 h Cyprinus carpio mg/L | |
| | | LC50 static | |
| Sulfanilic acid | 91: 72 h Desmodesmus | | 85.66: 48 h Daphnia magna mg/L |
| 121-57-3 | subspicatus mg/L EC50 | promelas mg/L LC50 static | EC50 |

Persistence and degradability

No information available.

Bioaccumulation/Accumulation

No information available.

| Chemical name | Log Pow |
|------------------------------|-----------------|
| Zinc; Zinc Dust 7440-66-6 | Not Established |
| Sulfanilic acid 121-57-3 | -0.9 |

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose according to federal, state, and local regulations. If permitted, dissolve in large volume of water, neutralize pH with dilute base, rinse to drain with excess water.

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 |
|------------------------------|-----------------|--------------------------|------------------------|------------------------|
| Zinc; Zinc Dust 7440-66-6 | Not Established | - | Not Established | Not Established |
| Sulfanilic acid 121-57-3 | Not Established | - | Not Established | Not Established |

| Chemical name | RCRA - Halogenated Organic Compounds | RCRA - P Series Wastes | RCRA - F Series Wastes | RCRA - K Series Wastes |
|------------------------------|---|------------------------|------------------------|------------------------|
| Zinc; Zinc Dust 7440-66-6 | Not Established | Not Established | Not Established | Not Established |
| Sulfanilic acid 121-57-3 | Not Established | Not Established | Not Established | Not Established |

| Chemical name | California Hazardous Waste Status |
|------------------------------|-----------------------------------|
| Zinc; Zinc Dust 7440-66-6 | - |
| Sulfanilic acid 121-57-3 | - |

14. TRANSPORT INFORMATION

DOT Not regulated

IATA Not regulated

IMDG/IMO Not regulated

15. REGULATORY INFORMATION

International Inventories

Complies **TSCA DSL/NDSL** Complies **EINECS/ELINCS** Does not comply **ENCS** Does not comply **IECSC** Does not comply Does not comply **KECL PICCS** Does not comply Does not comply **AICS**

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 contains a chemical or 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 % |
|------------------------------|-------------------------------|
| Zinc; Zinc Dust 7440-66-6 | 1.0 |
| Sulfanilic acid 121-57-3 | 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 |
|------------------------------|--------------------------------|------------------------|---------------------------|-------------------------------|
| Zinc; Zinc Dust 7440-66-6 | Not Established | X | X | Not Established |
| Sulfanilic acid 121-57-3 | 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 |
|------------------------------|--------------------------|-----------------|---|
| Zinc; Zinc Dust 7440-66-6 | 1000 lb | Not Established | RQ 454 kg final RQ RQ 1000 lb final RQ |
| Sulfanilic acid 121-57-3 | • | 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 | |
|------------------------------|-----------------|-----------------|-----------------|--|
| Zinc; Zinc Dust 7440-66-6 | X | X | Х | |
| Sulfanilic acid 121-57-3 | 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



Prepared by Regulatory Affairs Department

Issuing Date May-26-2015
Revision Date May-26-2015
Reason for revision New US GHS format

Disclaimer

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End of Material Safety Data Sheet



Safety Data Sheet

OSHA format Revision Number 0

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

Product identifier

Product name Dissolved Oxygen Tablets

Other means of identification

Product Code(s) 3976A

Recommended use of the chemical and restrictions on use

Recommended Use Laboratory chemicals. Research and Development.

Details of the supplier of the safety data sheet

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

OSHA Regulatory Status

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

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

| Appearance Gray | Physical state solid Tablet | Odor Odorless |
|-----------------|-----------------------------|----------------------|
| | | |
| | | |

EMERGENCY OVERVIEW

Precautionary Statements - Prevention

Do not handle until all safety precautions have been read and understood. Keep container tightly closed. Keep out of 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 in a well-ventilated place. Keep cool.

3. COMPOSITION/INFORMATION ON INGREDIENTS*

LaMotte Company proprietary formulation under the State of New Jersey Trade Secret Protection Law, assigned the NJTSRN 80100291-5074p, and may be disclosed only in a medical emergency

4. FIRST AID MEASURES

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

symptoms persist, call a physician.

Skin contact Wash off immediately with soap and plenty of water for at least 15 minutes. Take off

contaminated clothing and wash before reuse. If symptoms persist, call a physician.

Inhalation Remove to fresh air.

Ingestion Drink plenty of water. Never give anything by mouth to an unconscious person. Consult a

physician if necessary.

<u>Self-protection of the first aider</u> 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.

5. FIREFIGHTING MEASURES

Suitable extinguishing media

Water spray, dry chemical, carbon dioxide (CO₂), 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

Personal precautions See section 8.

Environmental precautions See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for containment Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth,

diatomaceous earth, vermiculite) and place in container for disposal according to local /

national regulations (see Section 13).

Methods for cleaning up Sweep up and shovel into suitable containers for disposal. Keep in suitable and closed

containers for disposal. If local regulations permits small amounts (<50 tablets), dissolve

and rinse to drain with excess 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

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from **Storage**

heat, moisture, and incompatibles. Keep out of the reach of children.

Incompatible Products None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Appropriate engineering controls

Showers **Engineering Measures**

> **Evewash stations** Ventilation systems.

Individual protection measures, such as personal protective equipment

Wear safety glasses with side shields (or goggles). Avoid contact with eyes. **Eye/Face Protection**

Gloves & Lab Coat. Skin and body protection

Respiratory protection None required under normal usage.

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with **Hygiene Measures**

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

solid Tablet Physical state

Odor Odorless **Appearance** Gray

Values Remarks • Method **Property**

R Hq

Melting point / freezing point No information available

Boiling point / boiling range No information available

Not Applicable Flash point **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 No information available Partition coefficient No information available **Autoignition temperature Decomposition temperature** No information available Kinematic viscosity No information available No information available Dynamic viscosity No information available **Explosive properties** No information available **Oxidizing properties**

Other Information

Softening point No information available

Molecular weightNo information availableVOC Content (%)No information availableDensityNo information availableBulk densityNo information available

10. STABILITY AND REACTIVITY

Stability Stable.

Hazardous Reactions Hazardous polymerization does not occur.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid Exposure to air or moisture over prolonged periods. Excessive heat.

Incompatible materialsNone known based on information supplied.

Hazardous decomposition products None under normal use.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Component identification

Information on toxicological effects

ATEmix (oral) 10,081.00 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

Unknown Aquatic Toxicity 75.1 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Persistence and degradability

No information available.

Bioaccumulation/Accumulation

No information available.

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.

14. TRANSPORT INFORMATION

DOT Not regulated

IMDG/IMO Not regulated

Not regulated

15. REGULATORY INFORMATION

International Inventories

Does not comply **TSCA DSL/NDSL** Does not comply **EINECS/ELINCS** Does not comply **ENCS** Does not comply **IECSC** Does not comply Does not comply **KECL** Does not comply **PICCS 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

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)

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

US State Regulations

California Proposition 65

U.S. State Right-to-Know Regulations

CPSC (Consumer Product Safety Commission) - Specially Regulated Substances

16. OTHER INFORMATION

NFPA Health hazard 1 Flammability 0 Instability 0 Physical and Chemical Hazards N/A



Prepared by Issuing Date Reason for revision Disclaimer Regulatory Affairs Department Jun-01-2015 (M)SDS sections updated 9

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End of Safety Data Sheet



Safety Data Sheet

Revision Number 0

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

Product identifier

Product name Coliform Tablet with MUG

Other means of identification

Product Code(s) 4890

Recommended use of the chemical and restrictions on use

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

Details of the supplier of the safety data sheet

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

OSHA Regulatory Status

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

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

EMERGENCY OVERVIEW

Appearance Tan Physical state Tablet ~0.1g (100mg) **Odor** Odorless

Precautionary Statements - Prevention

Do not handle until all safety precautions have been read and understood. Keep container tightly closed. Keep out of 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 in a well-ventilated place. Keep cool.

3. COMPOSITION/INFORMATION ON INGREDIENTS*

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

All ingredients may not be listed. Ingredients not listed do not meet the reporting requirements of the OSHA Hazard Communication Standard (HCS) as specified in 29 CFR 1910.1200.

4. FIRST AID MEASURES

First Aid Measures

General advice No hazards which require special first aid measures. Do not get in eyes, on skin, or on

clothing.

Eye contact Rinse thoroughly with plenty of water, also under the eyelids.

Skin contact Wash off with warm water and soap.

Inhalation Not expected to require first aid measures. Remove to fresh air.

Ingestion Drink plenty of water.

Self-protection of the first aiderUse personal protective equipment. See section 8 for more information.

5. FIREFIGHTING MEASURES

Suitable extinguishing media

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

Unsuitable extinguishing media

None.

Specific hazards arising from the chemical

None known.

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

Personal precautions See section 8.

Environmental precautions See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for containment Dispose according to federal, state, and local regulations.

Methods for cleaning up If local regulations permit, dissolve and rinse to drain with excess water. Sweep up and

discard to trash. 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 tightly closed in a dry and cool place. Protect from moisture. Keep out of the reach of

children.

Incompatible ProductsNo materials to be especially mentioned.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

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).

Skin and body protection Protective 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

Physical state Tablet ~0.1g (100mg)

AppearanceTanOdorOdorless

Property Values Remarks • Method

pH 7 (1 tablet in 10mL of water)

pH 7
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:
Lower flammability limit:
Vapor pressure
No information available
No information available
No information available

Vapor densityNo information availableSpecific gravityNo information available

Water solubility Soluble in water

Solubility in other solvents No information available Partition coefficient No information available No information available **Autoignition temperature Decomposition temperature** No information available Kinematic viscosity No information available No information available Dynamic viscosity No information available **Explosive properties** No information available **Oxidizing properties**

Other Information

Softening point No information available

Molecular weightNo information availableVOC Content (%)No information availableDensityNo information availableBulk densityNo information available

10. STABILITY AND REACTIVITY

Stability Stable.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid Exposure to air or moisture over prolonged periods. Excessive heat.

Incompatible materialsNo materials to be especially mentioned.

Hazardous decomposition products

11. TOXICOLOGICAL INFORMATION

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

Information on likely routes of exposure

Component identification

Information on toxicological effects

 ATEmix (oral)
 9,549.00 mg/kg

 ATEmix (dermal)
 80,000.00 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

Persistence and degradability

No data is available on the product itself.

Bioaccumulation/Accumulation

No information available.

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.

14. TRANSPORT INFORMATION

DOT Not regulated

IMDG/IMO Not regulated

Not regulated

15. REGULATORY INFORMATION

International Inventories

Complies **TSCA** Complies **DSL/NDSL EINECS/ELINCS** Does not comply Does not comply **ENCS** Complies **IECSC** Complies **KECL PICCS** Does not comply **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

SARA 311/312 Hazard Categories

Acute health hazard No
Chronic Health Hazard No
Fire hazard No
Sudden release of pressure hazard No
Reactive Hazard No

CWA (Clean Water Act)

CERCLA

US State Regulations

California Proposition 65

U.S. State Right-to-Know Regulations

CPSC (Consumer Product Safety Commission) - Specially Regulated Substances

16. OTHER INFORMATION

NFPA Health hazard 0 Flammability 0 Instability 0 Physical and Chemical Hazards N/A

TIAZATUS IN/A

Health hazard 0 Flammability 0 Stability 0



Prepared by Issuing Date Reason for revision Disclaimer Regulatory Affairs Department Aug-06-2015 Update to Format

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



Safety Data Sheet

OSHA format Revision Number 0

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

Product identifier

Product name Phosphorus Tablets

Other means of identification

Product Code(s) 5422A

Recommended use of the chemical and restrictions on use

Recommended Use

Use as a laboratory reagent.

Details of the supplier of the safety data sheet

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 White Physical state Tablet Odor None

Precautionary Statements - Prevention

Wear protective gloves/protective clothing/eye protection/face protection. 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. Immediately call a poison center or physician.

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 in a well-ventilated place. Keep cool.

Unknown Acute Toxicity

4.46% of the mixture consists of ingredient(s) of unknown toxicity.

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-% |
|---------------------------------|------------|----------|
| Ammonium molybdate tetrahydrate | 12054-85-2 | 2 |
| Sodium bisulfate* | 7681-38-1 | 10-15 |

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

LaMotte Company proprietary formulation under the State of New Jersey Trade Secret Protection Law, assigned the NJTSRN 80100291-5034p, and may be disclosed only in a medical emergency

4. FIRST AID MEASURES

First Aid Measures

General advice No hazards which require special first aid measures. Repeated or prolonged skin contact

may cause allergic reactions with susceptible persons. Keep out of reach of children.

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 with soap and plenty of water removing all contaminated clothes and shoes. If

irritation develops or persists, consult physician.

Inhalation Remove to fresh air. Not an expected route of exposure.

Ingestion Do NOT induce vomiting. Drink plenty of water. Consult a physician.

Self-protection of the first aiderDo 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.

5. FIREFIGHTING MEASURES

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dry chemical, CO₂, water spray or alcohol-resistant 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

Personal precautions Avoid contact with eyes, skin and clothing.

Environmental precautions See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for containment Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth,

diatomaceous earth, vermiculite) and place in container for disposal according to local /

national regulations (see Section 13).

Methods for cleaning up Sweep up and shovel into suitable containers for disposal. After cleaning, flush away traces

with water.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Avoid contact with eyes, skin and clothing. Handle in accordance with good industrial

hygiene and safety practice. Do not taste or swallow. Do not eat, drink, or smoke when

using this product.

Conditions for safe storage, including any incompatibilities

Storage Keep container tightly closed in a dry and well-ventilated place. Keep away from heat.

Protect from moisture. Keep out of the reach of children.

Incompatible Products Acids. Strong reducing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

| Chemical name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|---------------------------------|--|-----------------------------|---------------------------------|
| Ammonium molybdate tetrahydrate | TWA: 0.5 mg/m ³ Mo respirable | TWA: 5 mg/m ³ Mo | IDLH: 1000 mg/m ³ Mo |
| 12054-85-2 | fraction | (vacated) TWA: 5 mg/m³ Mo | _ |
| Sodium bisulfate* | - | - | Not Established |
| 7681-38-1 | | | |

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).

Skin and body protection Protective gloves.

Hygiene Measures Take off contaminated clothing and wash before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Tablet Appearance White

Appearance White Odor None

ColorWhiteOdor thresholdNot Applicable

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

pH 2 (1 tablet in 10mL of water)

Melting point / freezing point

Boiling point / boiling range

No information available
No information available

Flash point Not Applicable -

Evaporation rate No information available Flammability (solid, gas) No information available

Flammability Limit in Air

Upper flammability limit:
Lower flammability limit:
Vapor pressure
Vapor density
Specific gravity

No information available
No information available
No information available
No information available

Water solubility Soluble in water

Solubility in other solvents Soluble

Partition coefficient No information available

Autoignition temperature Not Applicable

Decomposition temperature
Kinematic viscosity
No information available
No information available
No information available
No information available

Explosive properties Not Applicable

Oxidizing properties No information available

Other Information

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

10. STABILITY AND REACTIVITY

Stability Stable.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid Excessive heat. Moisture.

Incompatible materials Acids. Strong reducing agents.

Hazardous decomposition products None under normal use.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Component identification

| Chemical name | ATEmix (oral) | ATEmix (dermal) | Inhalation LC50 |
|--|----------------------|-----------------|-----------------|
| Ammonium molybdate tetrahydrate 12054-85-2 | Not Established | Not Established | Not Established |
| Sodium bisulfate* 7681-38-1 | = 2490 mg/kg (Rat) | Not Established | Not Established |

Information on toxicological effects

| Chemical name | ACGIH | IARC | NTP | OSHA |
|--------------------|-----------------|-----------------|-----------------|-----------------|
| Ammonium molybdate | A3 | Not Established | Not Established | Not Established |
| tetrahydrate | | | | |
| 12054-85-2 | | | | |
| Sodium bisulfate* | Not Established | Not Established | Not Established | Not Established |
| 7681-38-1 | | | | |

ATEmix (oral) 5,222.00 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

| Chemical name | Toxicity to Algae | Toxicity to Fish | Daphnia Magna (Water Flea) |
|--|-------------------|------------------|--------------------------------------|
| Ammonium molybdate tetrahydrate 12054-85-2 | Not Established | Not Established | Not Established |
| Sodium bisulfate* 7681-38-1 | Not Established | Not Established | 190: 48 h Daphnia magna mg/L EC50 |

Persistence and degradability

No information available.

Bioaccumulation/Accumulation

No information available.

| Chemical name | Log Pow |
|---------------------------------|-----------------|
| Ammonium molybdate tetrahydrate | Not Established |
| 12054-85-2 | |
| Sodium bisulfate* | Not Established |

| 7681-38-1 | |
|-----------|--|

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 |
|--|-----------------|--------------------------|------------------------|------------------------|
| Ammonium molybdate tetrahydrate 12054-85-2 | Not Established | - | Not Established | Not Established |
| Sodium bisulfate* 7681-38-1 | Not Established | - | Not Established | Not Established |

| Chemical name | RCRA - Halogenated | RCRA - P Series Wastes | RCRA - F Series Wastes | RCRA - K Series Wastes |
|--|--------------------|------------------------|------------------------|------------------------|
| | Organic Compounds | | | |
| Ammonium molybdate tetrahydrate 12054-85-2 | Not Established | Not Established | Not Established | Not Established |
| Sodium bisulfate* 7681-38-1 | Not Established | Not Established | Not Established | Not Established |

| Chemical name | California Hazardous Waste Status |
|--|-----------------------------------|
| Ammonium molybdate tetrahydrate 12054-85-2 | - |
| Sodium bisulfate* 7681-38-1 | - |

14. TRANSPORT INFORMATION

DOT Not regulated

IMDG/IMO Not regulated

Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA Complies **DSL/NDSL** Complies **EINECS/ELINCS** Does not comply **ENCS** Does not comply **IECSC** Complies **KECL** Does not comply **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 % |
|--|-------------------------------|
| Ammonium molybdate tetrahydrate 12054-85-2 | 1.0 |
| Sodium bisulfate* 7681-38-1 | 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 | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous |
|--|------------------|------------------------|---------------------------|-----------------|
| | Quantities | | | Substances |
| Ammonium molybdate tetrahydrate 12054-85-2 | Not Established | Not Established | Not Established | Not Established |
| Sodium bisulfate* 7681-38-1 | 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 |
|--|--------------------------|-----------------|----|
| Ammonium molybdate tetrahydrate 12054-85-2 | - | Not Established | - |
| Sodium bisulfate* 7681-38-1 | - | Not Established | - |

US State Regulations

California Proposition 65

| Chemical name | California Proposition 65 |
|---------------------------------|---------------------------|
| Ammonium molybdate tetrahydrate | Not Established |
| 12054-85-2 | |
| Sodium bisulfate* | Not Established |
| 7681-38-1 | |

U.S. State Right-to-Know Regulations

| Chemical name | New Jersey | Massachusetts | Pennsylvania |
|---------------------------------|-----------------|-----------------|-----------------|
| Ammonium molybdate tetrahydrate | Not Established | Not Established | Not Established |
| 12054-85-2 | | | |
| Sodium bisulfate* 7681-38-1 | Not Established | Not Established | Not Established |

CPSC (Consumer Product Safety Commission) - Specially Regulated Substances

16. OTHER INFORMATION

NFPA Health hazard 0 Flammability 0 Instability 0 Physical and Chemical Hazards N/A

HMIS Health hazard 1 Flammability 0 Stability 0



Issuing Date Reason for revision

Jun-01-2015

Update to Format MSDS was reviewed per Canada request - Canada requires MSDS to be dated within 3 years of the request

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



Safety Data Sheet

Revision Number 0

Issuing Date Jun-01-2015 Revision Date Jan-11-2016

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

Product identifier

Product name Wide Range pH Tablets

Other means of identification

Product Code(s) 6459A

Recommended use of the chemical and restrictions on use

Recommended UseUse as a laboratory reagent. Industrial (not for food or food contact use).

Details of the supplier of the safety data sheet

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

OSHA Regulatory Status

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

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

| Appearance brown-gray | Physical state Tablet | Odor None |
|-----------------------|-----------------------|------------------|

EMERGENCY OVERVIEW

Precautionary Statements - Prevention

Do not handle until all safety precautions have been read and understood. Keep container tightly closed. Keep out of 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 in a well-ventilated place. Keep cool.

3. COMPOSITION/INFORMATION ON INGREDIENTS*

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

LaMotte Company proprietary formulation under the State of New Jersey Trade Secret Protection Law, assigned the NJTSRN 80100291-5074p, and may be disclosed only in a medical emergency

4. FIRST AID MEASURES

First Aid Measures

General advice No hazards which require special first aid measures. Do not get in eyes, on skin, or on

clothing. Keep out of reach of children.

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 with soap and plenty of water removing all contaminated clothes and shoes. If

irritation develops or persists, consult physician.

Inhalation Remove to fresh air. Not an expected route of exposure.

Ingestion Do NOT induce vomiting. Drink plenty of water. Consult a physician.

Self-protection of the first aider 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.

5. FIREFIGHTING MEASURES

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dry chemical, CO₂, water spray or alcohol-resistant 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

Personal precautions Avoid contact with eyes, skin and clothing.

Environmental precautions See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for containment Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth,

diatomaceous earth, vermiculite) and place in container for disposal according to local /

national regulations (see Section 13).

Methods for cleaning upSweep up and shovel into suitable containers for disposal. If local regulations permit,

dissolve and rinse to drain with excess water. After cleaning, flush away traces with water.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Avoid contact with eyes, skin and clothing. Handle in accordance with good industrial

hygiene and safety practice. Do not taste or swallow. Do not eat, drink, or smoke when

using this product.

None

Conditions for safe storage, including any incompatibilities

Storage Keep container tightly closed in a dry and well-ventilated place. Keep away from heat.

Protect from moisture. Keep out of the reach of children.

Incompatible Products None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

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).

Skin and body protection Protective gloves.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Tablet Appearance brown-gray

Appearance brown-gray Odor

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

pH 6 (1 tablet in 10mL of water)

Melting point / freezing point

Boiling point / boiling range

No information available
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:

Vapor pressure

Vapor density

Specific gravity

Water solubility

Solubility in other solvents

Partition coefficient

No information available

Partition coefficient
Autoignition temperature
Decomposition temperature
Kinematic viscosity
Dynamic viscosity
Explosive properties
No information available

Other Information

Softening pointNo information availableMolecular weightNo information availableVOC Content (%)No information availableDensityNo information available

Issuing Date Jun-01-2015 Revision Date Jan-11-2016

Bulk density No information available

10. STABILITY AND REACTIVITY

Stability Stable.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid Excessive heat. Moisture.

Incompatible materialsNone known based on information supplied.

Hazardous decomposition products None under normal use.

11. TOXICOLOGICAL INFORMATION

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

Information on likely routes of exposure

Component identification

Information on toxicological effects

Carcinogenicity Contains no ingredient listed as a carcinogen.

Chronic toxicity Product does not present a chronic toxicity hazard based on known or supplied information.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Unknown Aquatic Toxicity 100 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Persistence and degradability

No information available.

Bioaccumulation/Accumulation

No information available.

13. DISPOSAL CONSIDERATIONS

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

Contaminated packaging Do not reuse empty containers.

14. TRANSPORT INFORMATION

DOT Not regulated

IATA Not regulated

IMDG/IMO Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA Complies **DSL/NDSL** Complies Complies **EINECS/ELINCS** Does not comply **ENCS IECSC** Does not comply **KECL** Does not comply Does not comply **PICCS 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

SARA 311/312 Hazard Categories

Acute health hazard No
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)

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

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

CPSC (Consumer Product Safety Commission) - Specially Regulated Substances

| 16. OTHER INFORMATION | | | | |
|-----------------------|-----------------|----------------|---------------|--------------------------------------|
| NFPA | Health hazard 0 | Flammability 0 | Instability 0 | Physical and Chemical Hazards N/A |



Issuing Date Revision Date Reason for revision Jun-01-2015 Jan-11-2016

(M)SDS sections updated 2

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



Safety Data Sheet

OSHA format Revision Number 0

Issuing Date Jun-01-2015 Revision Date Feb-24-2016

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 UseUse as a laboratory reagent. Industrial (not for 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

EMERGENCY OVERVIEW

Hazard statements

This product 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.

Response: IF exposed or concerned: Get medical advice/attention.

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.

Storage:

Store locked up.

Disposal:

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

3. COMPOSITION/INFORMATION ON INGREDIENTS*

| Chemical name | CAS# | Weight-% |
|---------------|------------|----------|
| Boric acid | 10043-35-3 | 12 |

All ingredients may not be listed. Ingredients not listed do not meet the reporting requirements of the OSHA Hazard Communication Standard (HCS) as specified in 29 CFR 1910.1200.

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

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.

Skin contact 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.

Inhalation Not expected to require first aid measures. Remove to fresh air.

Ingestion Drink plenty of water. Never give anything by mouth to an unconscious person. Consult a

physician if necessary.

Self-protection of the first aider

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.

Notes to Physician May cause sensitization of susceptible persons. Treat symptomatically.

5. FIREFIGHTING MEASURES

Suitable extinguishing media

Water spray, dry chemical, carbon dioxide (CO₂), 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

Personal precautions Use personal protection recommended in Section 8. Avoid contact with skin, eyes or

clothing.

Environmental precautions See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for containment Sweep up in a manner that does not dispurse dust and shovel into suitable containers for

disposal. Dispose according to local regulations, if permitted dissolve in water and rinse to

drain.

Methods for cleaning upAfter 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 |
|---------------|----------------------------------|----------|-----------------|
| Boric acid | STEL: 6 mg/m3 inhalable fraction | *- | Not Established |
| 10043-35-3 | TWA: 2 mg/m³ inhalable fraction | | |

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.

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

Physical state Solid Tablet

Appearance White Odor Odorless

Color White

Property Values Remarks • Method

pH 6 (1 tablet in 10mL of water)

Melting point / freezing pointNo information availableBoiling point / boiling rangeNo information available

Flash point Not Applicable

Evaporation rate

Flammability (solid, gas) No information available Flammability Limit in Air

Upper flammability limit:
Lower flammability limit:
Vapor pressure
Vapor density
Specific gravity

No information available
No information available
No information available
No information available

Water solubility Soluble in water

Solubility in other solvents No information available No information available **Partition coefficient Autoignition temperature** No information available **Decomposition temperature** No information available Kinematic viscosity No information available Dynamic viscosity No information available No information available **Explosive properties** Oxidizing properties No information available **Issuing Date** Jun-01-2015 **Revision Date** Feb-24-2016

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.

Hazardous Reactions Hazardous polymerization does not occur.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid Exposure to air or moisture over prolonged periods. Extremes of temperature and direct

sunlight.

Incompatible materials None known based on information supplied.

Hazardous decomposition products Hazardous decomposition products formed under fire conditions -. Hydrogen iodide. Iodine.

11. TOXICOLOGICAL INFORMATION

Product Information

Information on likely routes of exposure

Component identification

| Chemical name | ATEmix (oral) | ATEmix (dermal) | Inhalation LC50 |
|---------------|--------------------|-----------------------|-----------------------|
| Boric acid | = 2660 mg/kg (Rat) | > 2000 mg/kg (Rabbit) | > 0.16 mg/L (Rat) 4 h |
| 10043-35-3 | | | |

Information on toxicological effects

| Chemical name | ACGIH | IARC | NTP | OSHA |
|---------------|-----------------|-----------------|-----------------|-----------------|
| Boric acid | Not Established | Not Established | Not Established | Not Established |
| 10043-35-3 | | | | |

ATEmix (oral) 7,167.00 mg/kg ATEmix (dermal) 6,477.00 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

| Chemical name | Toxicity to Algae | Toxicity to Fish | Daphnia Magna (Water Flea) |
|---------------|-------------------|------------------------------|-------------------------------|
| Boric acid | Not Established | 1020: 72 h Carassius auratus | 115 - 153: 48 h Daphnia magna |
| 10043-35-3 | | mg/L LC50 flow-through | mg/L EC50 |

Persistence and degradability

No information available.

Bioaccumulation/Accumulation

No information available.

| Chemical name | Log Pow |
|---------------|---------|
| Boric acid | -0.757 |
| 10043-35-3 | |

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 |
|---|---------------|-----------------|--------------------------|------------------------|------------------------|
| Ī | Boric acid | Not Established | - | Not Established | Not Established |
| 1 | 10043-35-3 | | | | |

| Chemical name | RCRA - Halogenated Organic Compounds | RCRA - P Series Wastes | RCRA - F Series Wastes | RCRA - K Series Wastes |
|--------------------------|---|------------------------|------------------------|------------------------|
| Boric acid 10043-35-3 | Not Established | Not Established | Not Established | Not Established |

| Chemical name | California Hazardous Waste Status |
|---------------|-----------------------------------|
| Boric acid | *_ |
| 10043-35-3 | |

14. TRANSPORT INFORMATION

DOT Not regulated

IATA Not regulated

<u>IMDG/IMO</u> Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA Does not comply Does not comply **DSL/NDSL EINECS/ELINCS** Does not comply **ENCS** Does not comply **IECSC** Does not comply Does not comply **KECL PICCS** Does not comply **AICS** Does not comply

<u>Legend:</u>

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 % |
|---------------|-------------------------------|
| Boric acid | Not Established |
| 10043-35-3 | |

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 |
|--------------------------|--------------------------------|------------------------|---------------------------|-------------------------------|
| Boric acid 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 |
|---------------|--------------------------|-----------------|----|
| Boric acid | *- | Not Established | - |
| 10043-35-3 | | | |

US State Regulations

| Chemical name | California Proposition 65 |
|---------------|---------------------------|
| Boric acid | Not Established |
| 10043-35-3 | |

U.S. State Right-to-Know Regulations

| Chemical name | New Jersey | Massachusetts | Pennsylvania |
|---------------|------------|-----------------|-----------------|
| Boric acid | X | Not Established | Not Established |
| 10043-35-3 | | | |

CPSC (Consumer Product Safety Commission) - Specially Regulated Substances

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



Prepared by Regulatory Affairs Department

Issuing DateJun-01-2015Revision DateFeb-24-2016

Revision note Boric acid classification differs between the US and EU. It is not classified in the US but it is in the EU.

Reason for revision SDS sections updated 2 3

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



Safety Data Sheet

OSHA format Revision Number 0

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

Product identifier

Product name Hardness T (HR) Tablet

Other means of identification

Product Code(s) 6917A

Recommended use of the chemical and restrictions on use

Recommended UseUse as a laboratory reagent. Industrial (not for food or food contact use).

Details of the supplier of the safety data sheet

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

Serious eye damage/eye irritation Category 2

EMERGENCY OVERVIEW

WARNING

Hazard statements

Causes serious eye irritation.



Appearance Off-white Physical state powder Odor Odorless

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling. Wear eye/face protection.

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 eye irritation persists: Get medical advice/attention.

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 in a well-ventilated place. Keep cool.

Other Hazards

May be harmful if swallowed Harmful to aquatic life with long lasting effects

Unknown Acute Toxicity

3% of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical name | CAS No | Weight-% |
|-------------------------------|-------------|----------|
| Eriochrome black | 1787-61-7 | <1 |
| Sodium borate | 1330-43-4 | 4 |
| Aromatic carboxylic acid salt | Proprietary | 5 |
| Carbonate salt | Proprietary | 13 |

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 Excipients not listed by name are non-hazardous and proprietary to the manufacturer

4. FIRST AID MEASURES

First Aid Measures

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

Eye contact Immediately flush eyes with gentle stream of water for at least 15 minutes, occasionally

lifting upper and lower eyelids. If irritation persists or develops, contact a physician.

Skin contact Wash off with warm water and soap. If irritation develops or persists, consult physician.

Inhalation Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial

respiration and contact emergency personnel.

Ingestion Drink plenty of water. Clean mouth with water. If gastrointestinal distress occurs contact

physician. Consult a physician.

<u>Self-protection of the first aider</u> 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.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Water spray, dry chemical, carbon dioxide (CO₂), 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

Personal precautions See section 8. Avoid contact with the skin and the eyes.

Environmental precautions No special environmental precautions required. See Section 12 for additional Ecological

Information.

Methods and material for containment and cleaning up

Methods for containment Prevent dust cloud.

Methods for cleaning up Avoid dust formation. Sweep up and shovel into suitable containers for disposal.

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 away from

heat, moisture, and incompatibles. Keep out of the reach of children.

Incompatible ProductsNone known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

| Chemical name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|-------------------------------|--|----------|-----------------|
| Eriochrome black 1787-61-7 | - | - | Not Established |
| Sodium borate 1330-43-4 | 6 mg/m³ STEL (inhalable fraction, listed under Borate compounds, inorganic) 6 mg/m³ STEL (inhalable fraction) TWA: 2 mg/m³ | - | TWA: 1 mg/m³ |
| Aromatic carboxylic acid salt | - | - | Not Established |
| Carbonate salt | - | - | Not Established |

Appropriate engineering controls

Engineering Measures None under normal use conditions.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Wear safety glasses with side shields (or goggles).

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

Physical state powder

AppearanceOff-whiteOdorOdorless

Property Values Remarks • Method

pH 11 (1 tablet in 10mL of water)

Melting point / freezing point No information available

Boiling point / boiling range No information available No information available Flash point

Evaporation rate

Flammability (solid, gas)

Flammability Limit in Air

No information available

Upper flammability limit: No information available No information available Lower flammability limit: 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 **Decomposition temperature** No information available Kinematic viscosity No information available No information available **Dynamic viscosity Explosive properties** No information available Oxidizing properties No information available

Other Information

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

10. STABILITY AND REACTIVITY

Stability Stable.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid Exposure to air or moisture over prolonged periods. Temperature extremes.

Incompatible materials None known based on information supplied.

Hazardous decomposition products None under normal use.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Component Information

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|-------------------------------|----------------------|-------------------------|------------------------|
| Eriochrome black 1787-61-7 | = 17590 mg/kg(Rat) | > 3000 mg/kg (Rabbit) | > 2 mg/L (Rat)4 h |
| Sodium borate 1330-43-4 | = 2660 mg/kg (Rat) | > 2000 mg/kg(Rabbit) | Not Established |
| Aromatic carboxylic acid salt | = 2100 mg/kg (Rat) | Not Established | Not Established |
| Carbonate salt | = 4090 mg/kg (Rat) | Not Established | = 2300 mg/m³ (Rat) 2 h |

Information on toxicological effects

| Chemical name | ACGIH | IARC | NTP | OSHA |
|-------------------------------|-----------------|-----------------|-----------------|-----------------|
| Eriochrome black 1787-61-7 | Not Established | Not Established | Not Established | Not Established |
| Sodium borate 1330-43-4 | Not Established | Not Established | Not Established | Not Established |
| Aromatic carboxylic acid salt | Not Established | Not Established | Not Established | Not Established |
| Carbonate salt | Not Established | Not Established | Not Established | Not Established |

Chronic toxicity None known.

ATEmix (oral) 3461

ATEmix (dermal) 54054 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

| Chemical name | Toxicity to Algae | Toxicity to Fish | Daphnia Magna (Water Flea) |
|-------------------------------|---|---|--|
| Eriochrome black 1787-61-7 | 0.094: 72 h Desmodesmus subspicatus mg/L EC50 | 12.3: 96 h Brachydanio rerio mg/L LC50 static 6: 96 h Pimephales promelas mg/L LC50 static 7.3: 96 h Oncorhynchus mykiss mg/L LC50 static | 41.3: 48 h Daphnia magna mg/L EC50 |
| Sodium borate 1330-43-4 | 2.6 - 21.8: 96 h Pseudokirchneriella subcapitata mg/L EC50 static 158: 96 h Desmodesmus subspicatus mg/L EC50 | 340: 96 h Limanda limanda mg/L LC50 | 1085 - 1402: 48 h Daphnia magna mg/L LC50 |
| Aromatic carboxylic acid salt | Not Established | 420 - 558: 96 h Pimephales promelas mg/L LC50 flow-through 100: 96 h Pimephales promelas mg/L LC50 static | 650: 48 h Daphnia magna mg/L EC50 |
| Carbonate salt | 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 |

Persistence and degradability

No information available.

Bioaccumulation/Accumulation

No information available.

| Chemical name | Log Pow |
|-------------------------------|-----------------|
| Eriochrome black 1787-61-7 | Not Established |
| Sodium borate 1330-43-4 | Not Established |
| Aromatic carboxylic acid salt | -2.13 |
| Carbonate salt | 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 |
|-------------------------------|-----------------|--------------------------|------------------------|------------------------|
| Eriochrome black 1787-61-7 | Not Established | - | Not Established | Not Established |
| Sodium borate 1330-43-4 | Not Established | - | Not Established | Not Established |
| Aromatic carboxylic acid salt | Not Established | - | Not Established | Not Established |
| Carbonate salt | Not Established | - | Not Established | Not Established |

| Chemical name | RCRA - Halogenated Organic Compounds | RCRA - P Series Wastes | RCRA - F Series Wastes | RCRA - K Series Wastes |
|-------------------------------|---|------------------------|------------------------|------------------------|
| Eriochrome black 1787-61-7 | Not Established | Not Established | Not Established | Not Established |
| Sodium borate 1330-43-4 | Not Established | Not Established | Not Established | Not Established |
| Aromatic carboxylic acid salt | Not Established | Not Established | Not Established | Not Established |

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| Carbonate salt | Not Established | Not Established | Not Established | Not Established |
|----------------|-----------------|-----------------|-----------------|-----------------|

| Chemical name | California Hazardous Waste Status |
|-------------------------------|-----------------------------------|
| Eriochrome black 1787-61-7 | - |
| Sodium borate 1330-43-4 | - |
| Aromatic carboxylic acid salt | - |
| Carbonate salt | - |

14. TRANSPORT INFORMATION

DOT Not regulated

IATA Not regulated
IMDG/IMO Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA Complies Complies DSL/NDSL **EINECS/ELINCS** Does not comply Complies **ENCS** Complies **IECSC** Does not comply **KECL 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 % |
|-------------------------------|-------------------------------|
| Eriochrome black 1787-61-7 | Not Established |
| Sodium borate 1330-43-4 | Not Established |
| Aromatic carboxylic acid salt | Not Established |
| Carbonate salt | Not Established |

SARA 311/312 Hazard Categories

Acute health hazard

Chronic Health Hazard

No
Fire hazard

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 |
|-------------------------------|--------------------------------|------------------------|---------------------------|-------------------------------|
| Eriochrome black 1787-61-7 | Not Established | Not Established | Not Established | Not Established |
| Sodium borate 1330-43-4 | Not Established | Not Established | Not Established | Not Established |
| Aromatic carboxylic acid salt | Not Established | Not Established | Not Established | Not Established |
| Carbonate salt | 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 |
|-------------------------------|--------------------------|-----------------|----|
| Eriochrome black | - | Not Established | - |
| 1787-61-7 | | | |
| Sodium borate 1330-43-4 | - | Not Established | - |
| Aromatic carboxylic acid salt | - | Not Established | - |
| Carbonate salt | - | Not Established | - |

US State Regulations

California Proposition 65

| Chemical name | California Proposition 65 |
|-------------------------------|---------------------------|
| Eriochrome black 1787-61-7 | Not Established |
| Sodium borate 1330-43-4 | Not Established |
| Aromatic carboxylic acid salt | Not Established |
| Carbonate salt | Not Established |

U.S. State Right-to-Know Regulations

| Chemical name | New Jersey | Massachusetts | Pennsylvania |
|-------------------------------|-----------------|-----------------|-----------------|
| Eriochrome black 1787-61-7 | Not Established | Not Established | Not Established |
| Sodium borate 1330-43-4 | Not Established | X | Х |
| Aromatic carboxylic acid salt | Not Established | Not Established | Not Established |
| Carbonate salt | Not Established | Not Established | Not Established |

CPSC (Consumer Product Safety Commission) - Specially Regulated Substances

16. OTHER INFORMATION

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



Prepared by Issuing Date Reason for revision Disclaimer Regulatory Affairs Department Jun-01-2015 (M)SDS sections updated 3

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