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

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

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS No</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc; Zinc Dust</td>
<td>7440-66-6</td>
<td>1</td>
</tr>
<tr>
<td>Sulfanilic acid</td>
<td>121-57-3</td>
<td>1</td>
</tr>
</tbody>
</table>

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.

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.

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

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. 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. Keep away from direct sunlight.

Incompatible Products Nitric acid. Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Appropriate engineering controls

Engineering Measures Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Avoid contact with eyes. If splashes are likely to occur:. Wear safety glasses with side shields (or goggles).

Skin and body protection No special protective equipment required.

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks • Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting point / freezing point</td>
<td>No information available</td>
<td>No information available</td>
</tr>
<tr>
<td>Boiling point / boiling range</td>
<td>No information available</td>
<td>No information available</td>
</tr>
<tr>
<td>Flash point</td>
<td>No information available</td>
<td>No information available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No information available</td>
<td>No information available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No information available</td>
<td>No information available</td>
</tr>
<tr>
<td>Flammability Limit in Air</td>
<td>No information available</td>
<td>No information available</td>
</tr>
</tbody>
</table>

(p.e. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).
Upper flammability limit: No information available
Lower flammability limit: No information available
Vapor pressure: No information available
Vapor density: No information available
Specific gravity: No information available
Water solubility: Soluble in water
Solubility in other solvents: No information available
Partition coefficient: No information available
Autoignition temperature: No information available
Decomposition temperature: No information available
Kinematic viscosity: No information available
Dynamic viscosity: No information available
Explosive properties: No information available
Oxidizing properties: No information available

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

10. STABILITY AND REACTIVITY

Stability Stable.
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 a chronic toxicity hazard based on known or supplied information.

Information on likely routes of exposure

Component Information

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc; Zinc Dust 7440-66-6</td>
<td>Not Established</td>
<td>Not Established</td>
<td>Not Established</td>
</tr>
<tr>
<td>Sulfanilic acid 121-57-3</td>
<td>= 12300 mg/kg ( Rat )</td>
<td>Not Established</td>
<td>Not Established</td>
</tr>
</tbody>
</table>

Information on toxicological effects

Sensitization No information available

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc; Zinc Dust 7440-66-6</td>
<td>-</td>
<td>Not Established</td>
<td>Not Established</td>
<td>-</td>
</tr>
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<td>-</td>
<td>Not Established</td>
<td>Not Established</td>
<td>-</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Toxicity to Algae</th>
<th>Toxicity to Fish</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc; Zinc Dust</td>
<td>0.09 - 0.125; 72 h Pseudokirchneriella subcapitata mg/L EC50 static</td>
<td>0.211 - 0.269; 96 h Pimephales promelas mg/L LC50 semi-static 2.16 - 3.05; 96 h Pimephales promelas mg/L LC50 flow-through 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</td>
</tr>
<tr>
<td>7440-66-6</td>
<td></td>
<td>0.139 - 0.908; 48 h Daphnia magna mg/L EC50 Static</td>
</tr>
<tr>
<td>Sulfanilic acid</td>
<td>91: 72 h Desmodesmus subspicatus mg/L EC50</td>
<td>77.8 - 129.6: 96 h Pimephales promelas mg/L LC50 static 85.66: 48 h Daphnia magna mg/L EC50</td>
</tr>
<tr>
<td>121-57-3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>RCRA</th>
<th>RCRA - Basis for Listing</th>
<th>RCRA - D Series Wastes</th>
<th>RCRA - U Series Wastes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc; Zinc Dust</td>
<td>Not Established</td>
<td>-</td>
<td>Not Established</td>
<td>Not Established</td>
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<tr>
<td>7440-66-6</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sulfanilic acid</td>
<td>Not Established</td>
<td>-</td>
<td>Not Established</td>
<td>Not Established</td>
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<tr>
<td>121-57-3</td>
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<tr>
<td>Zinc; Zinc Dust</td>
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<td>Not Established</td>
<td>Not Established</td>
<td>Not Established</td>
<td>Not Established</td>
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<tr>
<td>121-57-3</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Chemical name</th>
<th>California Hazardous Waste Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc; Zinc Dust</td>
<td>-</td>
</tr>
<tr>
<td>7440-66-6</td>
<td></td>
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<tr>
<td>Sulfanilic acid</td>
<td>-</td>
</tr>
<tr>
<td>121-57-3</td>
<td></td>
</tr>
</tbody>
</table>

14. TRANSPORT INFORMATION
15. REGULATORY INFORMATION

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

Legend:
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product 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

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>SARA 313 - Threshold Values %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc; Zinc Dust 7440-66-6</td>
<td>1.0</td>
</tr>
<tr>
<td>Sulfanilic acid 121-57-3</td>
<td>Not Established</td>
</tr>
</tbody>
</table>

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)

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CWA - Reportable Quantities</th>
<th>CWA - Toxic Pollutants</th>
<th>CWA - Priority Pollutants</th>
<th>CWA - Hazardous Substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc; Zinc Dust 7440-66-6</td>
<td>Not Established</td>
<td>X</td>
<td>X</td>
<td>Not Established</td>
</tr>
<tr>
<td>Sulfanilic acid 121-57-3</td>
<td>Not Established</td>
<td>Not Established</td>
<td>Not Established</td>
<td>Not Established</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Hazardous Substances RQs</th>
<th>CERCLA/SARA RQ</th>
<th>RQ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc; Zinc Dust 7440-66-6</td>
<td>1000 lb</td>
<td>Not Established</td>
<td>RQ 454 kg final RQ</td>
</tr>
<tr>
<td>Sulfanilic acid 121-57-3</td>
<td>-</td>
<td>Not Established</td>
<td>RQ 1000 lb final RQ</td>
</tr>
</tbody>
</table>

**US State Regulations**

This product does not contain any Proposition 65 chemicals.

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

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc; Zinc Dust 7440-66-6</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Sulfanilic acid 121-57-3</td>
<td>Not Established</td>
<td>Not Established</td>
<td>Not Established</td>
</tr>
</tbody>
</table>

**16. OTHER INFORMATION**

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health hazard</th>
<th>Flammability</th>
<th>Instability</th>
<th>Physical and Chemical Hazard</th>
<th>HMIS</th>
<th>Health hazard</th>
<th>Flammability</th>
<th>Stability</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>N/A</td>
<td></td>
<td>1</td>
<td>0</td>
<td>0</td>
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</table>

Prepared by Regulatory Affairs Department
Issuing Date May-26-2015
Revision Date May-26-2015
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