

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**Product identifier****Product name** Nitrate #1 Tablets**Other means of identification****Product Code(s)** 2799A**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** White **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.

Other Hazards

May be harmful if swallowed. Causes mild skin irritation. Harmful to aquatic life with long lasting effects.

Unknown Acute Toxicity

3.2% of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS*

| Chemical name | CAS No | Weight-% |
|---------------|-------------|----------|
| Sulfamic acid | 5329-14-6 | 1-10 |
| Chloride salt | Proprietary | 40-50 |

4. FIRST AID MEASURES**First Aid Measures**

| | |
|---------------------|---|
| Eye contact | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician. |
| Skin contact | Wash 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 | Remove to fresh air. |
| Ingestion | Clean mouth with water and drink afterwards plenty of water. Consult a physician if necessary. |

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. Avoid contact with eyes, skin and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective 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 | 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. |
|-----------------|--|

Conditions for safe storage, including any incompatibilities

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

| | |
|------------------------------|---|
| Incompatible Products | None known based on information supplied. |
|------------------------------|---|

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Control parameters**

| Chemical name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|----------------------------|-----------|----------|-----------------|
| Sulfamic acid 5329-14-6 | - | - | Not Established |
| Chloride salt | - | - | Not Established |

Appropriate engineering controls

Engineering Measures Showers
 Eyewash stations
 Ventilation systems.

Individual protection measures, such as personal protective equipment

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

Skin and body protection Protective gloves. Nitrile rubber.

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 ~0.1g (100mg)
Appearance White **Odor** Odorless

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

| | | |
|---------------------------------------|--------------------------|--|
| pH | 2.5 | |
| 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: | 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 under recommended storage conditions. |
| Hazardous polymerization | Hazardous polymerization does not occur. |
| Conditions to avoid | Extremes of temperature and direct sunlight. |
| Incompatible materials | None 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 |
|----------------------------|----------------------|-----------------|-----------------|
| Sulfamic acid 5329-14-6 | = 1450 mg/kg (Rat) | Not Established | Not Established |
| Chloride salt | = 2600 mg/kg (Rat) | Not Established | Not Established |

Information on toxicological effects

| Chemical name | ACGIH | IARC | NTP | OSHA |
|----------------------------|-----------------|-----------------|-----------------|-----------------|
| Sulfamic acid 5329-14-6 | Not Established | Not Established | Not Established | Not Established |
| Chloride salt | Not Established | Not Established | Not Established | Not Established |

*IARC (International Agency for Research on Cancer)
Group 3 - Not classifiable as to its carcinogenicity to humans*

ATEmix (oral) 3,855.00 mg/kg 6417

12. ECOLOGICAL INFORMATION**Ecotoxicity**

Unknown Aquatic Toxicity 48.9 % 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) |
|----------------------------|---|--|---|
| Sulfamic acid 5329-14-6 | Not Established | 14.2: 96 h Pimephales promelas mg/L LC50 static | Not Established |
| Chloride salt | 2500: 72 h Desmodesmus subspicatus mg/L EC50 | 750 - 1020: 96 h Pimephales promelas mg/L LC50 static 1060: 96 h Lepomis macrochirus mg/L LC50 static | 825: 48 h Daphnia magna mg/L EC50 83: 48 h Daphnia magna mg/L EC50 Static |

Persistence and degradability

No information available.

Bioaccumulation/Accumulation

No information available.

| Chemical name | Log Pow |
|----------------------------|-----------------|
| Sulfamic acid 5329-14-6 | Not Established |
| Chloride salt | Not Established |

13. DISPOSAL CONSIDERATIONS

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

Contaminated packaging Do not reuse empty containers.

| Chemical name | RCRA | RCRA - Basis for Listing | RCRA - D Series Wastes | RCRA - U Series Wastes |
|----------------------------|-----------------|--------------------------|------------------------|------------------------|
| Sulfamic acid 5329-14-6 | Not Established | - | Not Established | Not Established |
| Chloride 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 |
|----------------------------|--------------------------------------|------------------------|------------------------|------------------------|
| Sulfamic acid 5329-14-6 | Not Established | Not Established | Not Established | Not Established |
| Chloride salt | Not Established | Not Established | Not Established | Not Established |

| Chemical name | California Hazardous Waste Status |
|----------------------------|-----------------------------------|
| Sulfamic acid 5329-14-6 | - |
| Chloride salt | - |

14. TRANSPORT INFORMATION

| | |
|-----------------|---------------|
| <u>DOT</u> | Not regulated |
| <u>TDG</u> | Not regulated |
| <u>MEX</u> | Not regulated |
| <u>ICAO</u> | Not regulated |
| <u>IATA</u> | Not regulated |
| <u>IMDG/IMO</u> | Not regulated |
| <u>RID</u> | Not regulated |
| <u>ADR</u> | Not regulated |
| <u>ADN</u> | Not regulated |

15. REGULATORY INFORMATION

International Inventories

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

Legend:

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

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

| Chemical name | SARA 313 - Threshold Values % |
|----------------------------|-------------------------------|
| Sulfamic acid 5329-14-6 | Not Established |
| Chloride salt | Not Established |

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)

| Chemical name | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|----------------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Sulfamic acid 5329-14-6 | Not Established | Not Established | Not Established | Not Established |
| Chloride 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 |
|----------------------------|--------------------------|-----------------|----|
| Sulfamic acid 5329-14-6 | - | Not Established | - |
| Chloride salt | - | Not Established | - |

US State Regulations**California Proposition 65**

| Chemical name | California Proposition 65 |
|----------------------------|---------------------------|
| Sulfamic acid 5329-14-6 | Not Established |
| Chloride salt | Not Established |

U.S. State Right-to-Know Regulations

| Chemical name | New Jersey | Massachusetts | Pennsylvania |
|----------------------------|-----------------|-----------------|-----------------|
| Sulfamic acid 5329-14-6 | X | Not Established | Not Established |
| Chloride salt | 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 |
| Health hazard 0 | | | | |



(Bad file name)

Issuing Date

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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