



SAFETY DATA SHEET

Preparation Date: 5/17/2017 Revision Date: 5/17/2017 Revision Number: G1

1. IDENTIFICATION

Product identifier

Product code: L1022

Product Name: LANTHANUM NITRATE, REAGENT

Other means of identification

Synonyms: Nitric acid, lanthanum salt, hexahydrate

Lanthum nitrate hexahydrate

CAS #: 10277-43-7
RTECS # OE5250000
CI#: Not available

Recommended use of the chemical and restrictions on use Recommended use:

No information available.

Uses advised against No information available

Supplier: Spectrum Chemical Mfg. Corp 14422 South San Pedro St.

Gardena, CA 90248 (310) 516-8000.

Order Online At: https://www.spectrumchemical.com
Chemtrec 1-800-424-9300

Emergency telephone numberChemtrec 1-800-424-9300Contact Person:Martin LaBenz (West Coast)Contact Person:Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

| Skin corrosion/irritation | Category 2 |
|--|-------------|
| Serious eye damage/eye irritation | Category 2A |
| Specific target organ toxicity (single exposure) | Category 3 |
| Oxidizing solids | Category 2 |

Label elements

Danger

Hazard statements

Causes skin irritation
Causes serious eye irritation
May cause respiratory irritation
May intensify fire; oxidizer

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Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

May be harmful if swallowed

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Keep away from heat/sparks/open flames/hot surfaces. — No smoking Keep/Store away from clothing and other combustible materials
Take any precaution to avoid mixing with combustibles

Wear protective gloves Wear eye/face protection

Precautionary Statements - Response

IN CASE OF FIRE: Use water to extinguish. Do not use dry chemicals or foams. CO 2 or Halon may provide limited control.

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 water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash it before reuse

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Components | CAS-No. | Weight % |
|--------------------------------|------------|----------|
| Lanthanum Nitrate, hexahydrate | 10277-43-7 | 100 |

4. FIRST AID MEASURES

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you

have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222. Ensure that medical personnel are aware of the material(s)

involved and take precautions to protect themselves.

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothing and

shoes. Get medical attention. If skin irritation persists, call a physician.

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Eye Contact: Flush eyes with water for 15 minutes. Get medical attention. If symptoms persist, call a

physician.

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

respiration. Get medical attention.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Obtain medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms Causes serious eye irritation. Causes skin irritation. Irritating to respiratory system.

Exposure to nitrites/nitrates can cause gastroenteritis, abdominal pain, nausea, vomiting, diarrhea, metabolic acidosis, purging, methemoglobinemia, cyanosis, muscle weakness, dizziness, lightheadedness, loss of coordination, fatigue, headache, seizures, convulsions, dyspnea, dysrhythmias, coma, and death. Can affect the liver, metabolism(weight loss), blood (methemoglobinemia), cardiovascular system (bradycardia/tachydardia, hypotension,

vasodilation, irregular heartbeat), kidneys.

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Water. CO2 may be of no value in extinguishing fires

involving oxidizers and may only provide limited control.

Unsuitable Extinguishing Media: Dry chemical. Foam. Halons.

Specific hazards arising from the chemical

Hazardous Combustion Products: Lanthanum oxides, Nitrogen oxides

Hazardous Combustion Products: No information available.

Specific hazards: Oxidizer. Keep away from combustible materials (wood,

paper, oil, clothing, etc.) The product is not flammable, but it may cause fire when in contact with other material. Contact with combustible or organic materials may cause fire. Contact with finely divided (powdered) metals may cause ignition (fire) or explosion. Will accelerate burning when involved in a fire. Container explosion may occur

under fire conditions or when heated.

Special Protective Actions for Firefighters

Specific Methods: Water mist may be used to cool closed containers. For

large fires, flood fire area with water from a distance. Cool affected containers with flooding quantities of water. DO NOT use combustible materials such as sawdust. Do not

get water inside containers.

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

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6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Wear personal protective equipment. Avoid contact with skin,

eyes and clothing. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Remove all sources of ignition. Avoid dust formation. Keep combustibles (wood, paper, oil, clothing,

etc.) away from spilled material.

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering

drains. Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Cover with plastic sheet to prevent

spreading.

Methods for cleaning upSweep up and shovel. Use appropriate tools to put the spilled material in a

suitable chemical waste disposal container. Do not use combustible materials such as paper towels, sawdust, clothing, etc. to clean up spill. Clean contaminated

surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Keep away from incompatible materials.

Safe Handling Advice

Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Use only in well-ventilated areas. Do not ingest. Do not breathe dust. When using do not smoke. Keep away from combustible material. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Hygroscopic. Protect from moisture. Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials. Store in a segregated and approved area.

Incompatible Materials:

Reducing agents
Organic materials
Combustible materials
Powdered metals

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

| Components CAS-No. | OSHA | NIOSH | ACGIH | AIHA WHEEL |
|--------------------|------|-------|-------|------------|
|--------------------|------|-------|-------|------------|

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NITRATE. REAGENT

| Lanthanum Nitrate, | 10277-43-7 | None | None | None | None |
|--------------------|------------|------|------|------|------|
| hexahydrate | | | | | |

Canada

| Components | CAS-No. | Canada - Alberta | Canada - British Columbia | Canada - Ontario | Canada - Quebec |
|-----------------------------------|------------|------------------|------------------------------|------------------|-----------------|
| Lanthanum Nitrate, hexahydrate | 10277-43-7 | None | None | None | None |

Australia and Mexico

| Components | CAS-No. | Australia | Mexico |
|--------------------------------|------------|-----------|--------|
| Lanthanum Nitrate, hexahydrate | 10277-43-7 | None | None |

Appropriate engineering controls

Engineering measures to reduce exposure: Ensure adequate ventilation, especially in confined areas.

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure

limit.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection: Goggles

Skin and body protection: Chemical resistant apron

Gloves

Long sleeved clothing

Respiratory protection: Effective dust mask. Wear respirator with dust filter. Be sure to use an

approved/certified respirator or equivalent.

Hygiene measures: Avoid contact with skin, eyes and clothing. When using, do not eat, drink or

smoke. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:Appearance:Color:SolidCrystals.White.

Odor:TasteFormula:Odorless.No information available.La(NO3)3.6H2O

Molecular/Formula weight:Flammability:Flashpoint (°C/°F):433.03 g/molNo information availableNo information available

Flash Point Tested according to: Autoignition Temperature (°C/°F): Lower Explosion Limit (%): Not available

No information available

No information available

Upper Explosion Limit (%): Melting point/range(°C/°F): Decomposition temperature(°C/°F):

No information available 40°C/104°F No information available

Boiling point/range(°C/°F):

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No information available Bulk density: Density (g/cm3):

No information available
No information available

VOC content (g/L):

Specific gravity: pH: Vapor pressure @ 20°C (kPa):

No information available 3-4 No information available

Evaporation rate: Vapor density:

No information available
No information available
No information available

Odor threshold (ppm): Partition coefficient Viscosity:

No information available (n-octanol/water): No information available

No information available

Miscibility: Solubility:

No information available Easily soluble in water

Soluble in Acetone

10. STABILITY AND REACTIVITY

Reactivity

Oxidizer. Reacts with reducing agents, organic material, combustible materials, and powdered metals

Contact with combustible materials (wood, paper, oil, clothing, etc.) may cause fire

Contact with powdered metals may cause fire or explosion Can react vigorously on contact with reducing materials

Chemical stability

Stability: Hygroscopic. Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Exposure to moist air. Exposure to moisture. Ignition sources. Contact with

combustible materials (wood, paper, oil, clothing, etc.). Contact with finely divided

(powdered) metals. Incompatible materials.

Incompatible Materials: Reducing agents

Organic materials
Combustible materials
Powdered metals

Hazardous decomposition

products:

Lanthanum oxides. Nitrogen oxides (NOx).

Other Information

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:

Ingestion. Inhalation.

Acute Toxicity

Component Information

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Lanthanum Nitrate, hexahydrate

CAS-No. 10277-43-7

LD50/oral/rat = No information available

LD50/oral/mouse = No information available

LD50/dermal/rabbit = No information available

LD50/dermal/rat = No information available

LC50/inhalation/rat = No information available

LC50/inhalation/mouse = No infomation available

Other LD50 or LC50information = 4500 mg/kg oral LD50 rat (for Lanthanum Nitrate (CAS no. 10099-59-9))

Product Information

LD50/oral/rat =

VALUE- Acute Tox Oral = 4500 mg/kg

LD50/oral/mouse =

Value - Acute Tox Oral = No information available

LD50/dermal/rabbit

VALUE-Acute Tox Dermal = No information available

LD50/dermal/rat

VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat

VALUE-Vapor = No information available

VALUE-Gas = No information available

VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

VALUE-Vapor = No information available

VALUE - Gas = No information available

VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: Causes skin irritation.

Eye Contact: Causes serious eye irritation. Symptoms may include stinging, tearing, redness,

swelling and blurred vision.

Inhalation Irritating to respiratory system. Symptoms may include wheezing, cough, chest

tightness, and shortness of breath. May also cause nausea, vomiting, diarrhea, abdominal pain. Inhalation of high levels of nitrites/nitrates may also cause pulmonary edema. It can also interfere with the ability of the blood to carry oxygen

causing headache, dizziness and a blue color to the skin and lips

(methemoglobinemia), and other symtoms of methemoglobinemia (see other symptoms under ingestion). Higher levels can cause trouble breathing, circulatory

collapse and even death.

Ingestion May be harmful if swallowed.

Aspiration hazard No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity This product is also a nitrate, therefore nitrate poisoning can occur. Prolonged or

repeated nitrate ingestion may affect the urinary system (kidneys) and also may

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affect the blood, resulting in methemoglobin with attendant cyanosis, anorexia, hyperpnea and later dyspnea and chocolate brown colored blood. The primary toxic effects of nitrates include orthostatic hypotension and methemoglobinemia,

Other symptoms include muscular weakness, faintness, dizziness,

lightheadedness, fatigue, throbbing headache, mental impairment, incoordination, seizures, and convulsions, bradycardia or tachydardia, dysrhythmias, dyspnea. Prolonged or repeated ingestion of large amounts of nitrates may affect the liver and can cause gastroenteritis, nausea, vomiting, abdominal pain, weight loss.

Possible coma and death.

Sensitization: No information available.

Mutagenic Effects: No information available

Carcinogenic effects: IARC group 2A - Listed under Nitrate or Nitrite (ingested) under conditions that

result in endogenous nitrosation.

| Components | CAS-No. | IARC | ACGIH - Carcinogens | NTP | OSHA HCS - Carcinogens | Australia - Notifiable Carcinogenic Substances | Australia - Prohibited Carcinogenic Substances |
|-----------------------------------|---------|---|------------------------|------------|---------------------------|---|---|
| Lanthanum Nitrate, hexahydrate | | Group 2A - Probably Carcinogenic to Humans - Monograph 94 [2010] (covers ingested nitrates under conditions that result in endogenous nitrosation) | | Not listed | Present | Not listed | Not listed |

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity No data is available

Reproductive Effects: No information available
Developmental Effects: No information available
Teratogenic Effects: No information available

Specific Target Organ Toxicity

STOT - single exposure
STOT - repeated exposure
Tagget Organs:

Respiratory system.
No information available.

Target Organs:No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: No data available.

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Persistence and degradability: No information available

Bioaccumulative potential: No information available.

Mobility: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal Do not re-use empty containers Dispose of as unused product.

| Components | CAS-No. | RCRA - F Series Wastes | RCRA - K Series Wastes | RCRA - P Series Wastes | RCRA - U Series Wastes |
|--------------------|------------|---------------------------|---------------------------|---------------------------|---------------------------|
| Lanthanum Nitrate, | 10277-43-7 | None | None | None | None |
| hexahydrate | | | | | |

14. TRANSPORT INFORMATION

DOT

UN-No: UN1477

Proper Shipping Name: Nitrates, inorganic, n.o.s.

Hazard Class: 5.1

Subsidiary Class No information available

Packing group: II Emergency Response Guide 140

Number

Marine PollutantNo data availableDOT RQ (lbs):No information availableSpecial ProvisionsIB8, IP2, IP4, T3, TP33Symbol(s):No information available

Description: UN1477, Nitrates, inorganic, n.o.s., 5.1, II

TDG (Canada)

UN-No: UN1477

Proper Shipping Name: Nitrates, inorganic, n.o.s.

Hazard Class: 5.1

Subsidiary Risk: No information available

Packing Group:

Marine Pollutant No Information available

Description: UN1477, Nitrates, inorganic, n.o.s., 5.1, II

ADR

UN-No: UN1477

Proper Shipping Name: Nitrates, inorganic, n.o.s.

Hazard Class: 5.1 Packing Group:

Subsidiary Risk: No information available

Special Provisions 511

Description: UN1477, Nitrates, inorganic, n.o.s., 5.1, II

IMO / IMDG

Product code: L1022 Product name: LANTHANUM 9 / 12

UN-No: UN1477

Proper Shipping Name: Nitrates, inorganic, n.o.s.

Hazard Class: 5.1

Subsidiary Risk: No information available

Packing Group:

Marine Pollutant No information available

EMS: F-A

Description UN1477, Nitrates, inorganic, n.o.s., 5.1, II

RID

UN-No: UN1477

Proper Shipping Name: Nitrates, inorganic, n.o.s.

Hazard Class: 5.1

Subsidiary Risk: No information available

Packing Group: II Special Provisions 511

Description: UN1477, Nitrates, inorganic, n.o.s., 5.1, II

ICAO

UN-No: UN1477

Proper Shipping Name: Nitrates, inorganic, n.o.s.

Hazard Class: 5.1

Subsidiary Risk: No information available

Packing Group:

Description: UN1477, Nitrates, inorganic, n.o.s., 5.1, II

Special Provisions A3

IATA

UN-No: UN1477

Proper Shipping Name: Nitrates, inorganic, n.o.s.

Hazard Class: 5.1

Subsidiary Risk: No information available

Packing Group: II ERG Code: 5L

Special Provisions No information available

Description: UN1477, Nitrates, inorganic, n.o.s., 5.1, II

15. REGULATORY INFORMATION

International Inventories

| Components | CAS-No. | U.S. TSCA | KOREA KECL | Philippines (PICCS) | Japan ENCS | CHINA | Australia (AICS) | EINECS-No. |
|-----------------------------------|------------|------------|-------------|---------------------|-------------|---------|---------------------|-------------|
| Lanthanum Nitrate, hexahydrate | 10277-43-7 | Not Listed | Not present | Present | Not present | Present | Present | Not present |

U.S. Regulations

Lanthanum Nitrate, hexahydrate

New Jersey RTK Hazardous Substance List: 3722

New Jersey (EHS) List: 3722 500 lb TPQ

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

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NITRATE. REAGENT

| Components | CAS-No. | Carcinogen | Developmental Toxicity | Male | Female |
|--------------------------------|------------|------------|------------------------|--------------|--------------|
| | | | | Reproductive | Reproductive |
| | | | | Toxicity | Toxicity: |
| Lanthanum Nitrate, hexahydrate | 10277-43-7 | Not Listed | Not Listed | Not Listed | Not Listed |

CERCLA/SARA

| Components | CAS-No. | CERCLA - Hazardous Substances and their Reportable Quantities | Section 302 Extremely Hazardous Substances and TPQs | Section 302 Extremely Hazardous Substances and RQs | Section 313 - Chemical Category | Section 313 - Reporting de minimis |
|-----------------------------------|------------|---|---|--|------------------------------------|--|
| Lanthanum Nitrate, hexahydrate | 10277-43-7 | None | None | | | 1.0% de minimis concentration |

U.S. TSCA

| Components | CAS-No. | TSCA Section 5(a)2 - Chemicals | TSCA 8(d) -Health and Safety |
|--------------------------------|------------|--------------------------------|------------------------------|
| · . | | With Significant New Use Rules | Reporting |
| | | (SNURS) | |
| Lanthanum Nitrate, hexahydrate | 10277-43-7 | Not Applicable | Not Applicable |

Canada

WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

The WHMIS 2015 classification of this product has not been validated or reviewed yet.

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

WHMIS 1988 Hazard Class

C Oxidizing materials

Components

Lanthanum Nitrate, hexahydrate

WHMIS 1988

С

Canada Controlled Products Regulation:

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Inventory

| Components | CAS-No. | Canada (DSL) | Canada (NDSL) |
|--------------------------------|------------|--------------|---------------|
| Lanthanum Nitrate, hexahydrate | 10277-43-7 | Not Listed | Not Listed |

| Components | CAS-No. | CEPA Schedule I - Toxic Substances |
|--------------------------------|------------|--------------------------------------|
| Lanthanum Nitrate, hexahydrate | 10277-43-7 | Not listed |
| Components | | CEPA - 2010 Greenhouse Gases Subject |
| | | to Mandatory Reporting |
| Lanthanum Nitrate, hexahydrate | 10277-43-7 | Not listed |

EU Classification

EU GHS - SV - CLP 172/2008

| Components | CAS-No. | EU GHS - SV - CLP (172/2008) |
|------------|---------|------------------------------|

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| Lanthanum Nitrate, hexahydrate | 10277-43-7 | No information |
|--------------------------------|------------|----------------|
| | | |

EU - CLP (1272/2008)

R-phrase(s)

R 8 - Contact with combustible material may cause fire.

R36/37/38 - Irritating to eyes, respiratory system and skin.

S -phrase(s)

S17 - Keep away from combustible material.

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S37 - Wear suitable gloves.

| Components | CAS-No. | Classification | Concentration Limits: | Safety Phrases |
|--------------------------------|------------|----------------|-----------------------|----------------|
| Lanthanum Nitrate, hexahydrate | 10277-43-7 | | No information | |

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

Xi - Irritant. O - Oxidising.





16. OTHER INFORMATION

Preparation Date: 5/17/2017
Revision Date: 5/17/2017
Prepared by: Sonia Owen

Disclaimer:

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet

Product code: L1022 Product name: LANTHANUM 12 / 12
NITRATE. REAGENT