



Safety Data Sheet

Classified According to OSHA Hazard Communication Standard (HCS 2024)

SECTION 1: Identification

1.1. Product Identifier

Trade Name or Designation VeriSpec[®] ICP-MS Internal Standard 8

10 ppm: ⁶Li, Sc, Ge, Rh, In, Tb, Lu, Bi

Product Number RV010660

Other Identifying Product Numbers RV010660-100N

1.2. Recommended Use and Restrictions on Use

Calibration Standard

1.3. Details of the Supplier of the Safety Data Sheet

Company Ricca Chemical Company

Address 412 West Fork Drive

Arlington, TX 76012 USA

Telephone 888-467-4222

1.4. Emergency Telephone Number (24 hours)

CHEMTREC (USA) 800-424-9300

CHEMTREC (International) 1+ 703-527-3887

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SECTION 2: Hazard(s) Identification

2.1. Classification of the Substance or Mixture

Hazard Class	Category	Hazard Statements	Precautionary Statements
Skin Corrosion / Irritation	Category 1	H314	P260,P264,P280,P301+P330+P331, P303+P361+P353,P363,P304+P340, P310,P321,P305+P351+P338,P405, P501
Serious Eye Damage / Eye Irritation	Category 1	H318	P280,P305+P351+P338,P310
Corrosive to Metals	Category 1	H290	P234,P390,P406

2.2. GHS Label Elements

Pictograms:



Signal Word: **Danger**

Hazard Statements:

NOTE: Hazard statements may be combined on labels to improve clarity and readability.

Hazard Number	Hazard Statement
H290	May be corrosive to metals
H314	Causes severe skin burns and eye damage

Precautionary Statements:

NOTE: Precautionary statements may be combined or consolidated on labels to improve clarity and readability.

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Prevention

Precautionary Number	Precautionary Statement
P234	Keep only in original packaging.
P260	Do not breathe fumes or mist.
P264	Wash hands, arms, and face thoroughly after handling.
P280	Wear protective gloves and eye protection.

Response

Precautionary Number	Precautionary Statement
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a poison center or doctor.
P363	Wash contaminated clothing before reuse.
P390	Absorb spillage to prevent material damage.

Storage

Precautionary Number	Precautionary Statement
P405	Store locked up.

Disposal

Precautionary Number	Precautionary Statement
P501	Dispose of contents/container to suitable waste stream in accordance with local, state, federal, and international regulations.

2.3. Hazards not Otherwise Classified

No other hazards identified.

2.4. Ingredients of Unknown Acute Toxicity

10 percent of this mixture consists of ingredient(s) of unknown acute oral and dermal toxicity.

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SECTION 3: Composition / Information on Ingredients

3.1. Components of Mixture

Chemical Name (IUPAC)	Common Name and Synonyms	CAS Number	Weight%
nitric acid	Nitric Acid	7697-37-2	10.00
water	Water	7732-18-5	0.90
chlorane	Hydrochloric Acid; Muriatic acid	7647-01-0	0.20
lithium nitrate	Lithium Nitrate; Nitric acid, lithium salt (1:1)	7790-69-4	< 0.1
azanium thiocyanate	Ammonium Thiocyanate; Ammonium rhodanide	1762-95-4	< 0.1
indium(3+) trinitrate hydrate	Indium (III) Nitrate Hydrate; Nitric acid, indium(3+) salt, hydrate (2:9)	13465-14-0	< 0.1
terbium(3+) trinitrate pentahydrate	Terbium(III) Nitrate Pentahydrate	57584-27-7	< 0.1
lutetium(III) nitrate	Lutetium Nitrate; lutetium trinitrate	10099-67-9	< 0.1
bismuth(III) nitrate pentahydrate	Bismuth (III) Nitrate Pentahydrate; bismuth trinitrate pentahydrate	10035-06-0	< 0.1
rhodium(III) chloride	Rhodium (III) Chloride; rhodium trichloride	10049-07-7	< 0.1
dioxogermane	Germanium Oxide; germanic acid	1310-53-8	< 0.1

SECTION 4: First-Aid Measures

4.1. Description of Necessary Measures

Eye Contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Ingestion: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Inhalation: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Skin Contact: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

4.2. Most Important Symptoms and Effects, Acute and Delayed

Causes severe skin burns and eye damage

4.3. Immediate Medical Attention or Special Treatment Needed

Immediately call a poison center or doctor.

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SECTION 5: Fire-Fighting Measures

5.1. Extinguishing Media

Not considered to be a fire or explosion hazard.

5.2. Specific Hazards Arising from the Substance or Mixture in a Fire

Not considered to be a fire or explosion hazard.

5.3. Special Protective Equipment and Precautions for Firefighters

Wear protective clothing and NIOSH-approved breathing equipment appropriate for the surrounding fire.

SECTION 6: Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Wear protective gloves and eye protection.

6.2. Cleanup and Containment Methods and Materials

Absorb with suitable material and dispose of in accordance with local regulations.

SECTION 7: Handling and Storage

7.1. Precautions for Safe Handling and Storage Conditions

Store locked up.

SECTION 8: Exposure Controls / Personal Protection

8.1. Exposure Limits

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U.S. OSHA - Permissible Exposure Limits (PEL) - Time Weighted Averages (TWA)

Chemical Name	CAS Number	Exposure Limit
Rhodium (III) Chloride	10049-07-7	"0.1 mg/m3 TWA (as Rh)" As Rhodium, insoluble compounds [RR-00047-5]
Ammonium Thiocyanate	1762-95-4	"5 mg/m3 TWA (as CN)" As Cyanides [RR-00812-8]
Nitric Acid	7697-37-2	2 ppm TWA; 5 mg/m3 TWA

U.S. OSHA - Permissible Exposure Limits (PEL) - Ceiling Limits

Chemical Name	CAS Number	Exposure Limit
Hydrochloric Acid	7647-01-0	5 ppm Ceiling; 7 mg/m3 Ceiling

U.S. OSHA - Permissible Exposure Limits (PEL) - Short Term Exposure Limits (STEL)

No limits found.

U.S. OSHA - Specifically Regulated Chemicals

No limits found.

ACGIH - Threshold Limit Values - Ceilings (TLV-C)

Chemical Name	CAS Number	Exposure Limit
Hydrochloric Acid	7647-01-0	2 ppm Ceiling

ACGIH - Threshold Limit Values - Short Term Exposure Limits (TLV-STEL)

Chemical Name	CAS Number	Exposure Limit
Nitric Acid	7697-37-2	4 ppm STEL

ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)

Chemical Name	CAS Number	Exposure Limit
Rhodium (III) Chloride	10049-07-7	"1 mg/m3 TWA (as Rh)" As Rhodium insoluble compounds [RR-00047-5]
Indium (III) Nitrate Hydrate	13465-14-0	"0.1 mg/m3 TWA (as In)" As Indium compounds [RR-00600-8]
Nitric Acid	7697-37-2	2 ppm TWA

8.2. Engineering Controls

No specific controls are needed.

8.3. Individual Protective Measures and Personal Protective Equipment

Respiratory Protection: Wear protective gloves and eye protection.

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Skin Protection: Wear protective gloves and eye protection.

Eye Protection: Wear protective gloves and eye protection.

SECTION 9: Physical and Chemical Properties

9.1. Basic Physical and Chemical Properties

Physical State: Liquid

Color: Data not available.

Odor: Data not available.

Odor Threshold: Data not available.

Melting/Freezing Point: Data not available.

Boiling Point/Range: Data not available.

Flammability: Data not available.

Flammability/Explosive Limits: Data not available.

Flash Point: Not flammable

Auto-Ignition Temperature: Data not available.

Decomposition Temperature: Data not available.

pH: Data not available.

Kinematic Viscosity: Data not available.

Solubility: Data not available.

Vapor Pressure: Data not available.

Evaporation Rate: Data not available.

Relative Density: 1.06

Relative Vapor Density: Data not available.

Particle Characteristics: Data not available.

Partition Coefficient n-octanol/water, log Data not available.

SECTION 10: Stability and Reactivity

10.1. Reactivity and Chemical Stability

Stable under normal conditions of use and storage.

10.2. Possibility of Hazardous Reactions

Data not available.

10.3. Conditions to Avoid and Incompatible Materials

Keep only in original packaging.

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10.4. Hazardous Decomposition Products

None identified.

SECTION 11: Toxicological Information

11.1. Information on Toxicological Effects

Acute Toxicity - Oral Exposure:

Not acutely toxic.

Chemical Name	CAS Number	Toxicity
Bismuth (III) Nitrate Pentahydrate	10035-06-0	Oral LD50 Rat 4042 mg/kg (Source: NLM_CIP)
Ammonium Thiocyanate	1762-95-4	Oral LD50 Acute Toxicity Estimate 500 mg/kg (Source: ECHA)
Terbium(III) Nitrate Pentahydrate	57584-27-7	Oral LD50 Rat >5 g/kg (no deaths occurred, Source: ECHA) As Nitric acid, terbium(3+) salt (3:1) [10043-27-3]
Hydrochloric Acid	7647-01-0	Oral LD50 Rat 700 mg/kg (Source: Canada_WHMIS)
Lithium Nitrate	7790-69-4	Oral LD50 Rat 1426 mg/kg (Source: Canada_WHMIS)

Acute Toxicity - Dermal Exposure:

Not acutely toxic.

Chemical Name	CAS Number	Toxicity
Ammonium Thiocyanate	1762-95-4	Dermal LD50 Acute Toxicity Estimate 1100 mg/kg (Source: ECHA)
Hydrochloric Acid	7647-01-0	Dermal LD50 Rabbit >5010 mg/kg (Source: JAPAN_GHS)
Lithium Nitrate	7790-69-4	Dermal LD50 Rat >2000 mg/kg (Source: ECHA_API)

Acute Toxicity - Inhalation Exposure:

Inhalation acute toxicity estimate (ATE, vapor): 32.2000 mg/L, 4 h(calculated); Inhalation acute toxicity estimate (ATE, dust or mist): 247.8929 mg/L

Chemical Name	CAS Number	Toxicity
Germanium Oxide	1310-53-8	Inhalation LC50 Rat >3100 mg/m ³ 4 h (no deaths occurred, particulate powder, Source: ECHA_API)
Ammonium Thiocyanate	1762-95-4	Inhalation LC50 Acute Toxicity Estimate 1.5 mg/L 4 h (Source: ECHA)
Hydrochloric Acid	7647-01-0	Inhalation LC50 Acute Toxicity Estimate 0.5 mg/L 4 h (Source: ECHA)
Nitric Acid	7697-37-2	Inhalation LC50 Rat 3.22 mg/L 4 h (Source: WHMIS)
Lithium Nitrate	7790-69-4	Inhalation LC50 Rat >5.93 mg/L 4 h (no deaths occurred, aerosol, Source: ECHA_API)

11.2 Carcinogenicity:

International Agency for Research on Cancer (IARC)

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Chemical Name	CAS Number	Classification
Hydrochloric Acid	7647-01-0	Group 1 (Carcinogenic to Humans) - Monograph 100F [2012]; Monograph 54 [1992] As Acid mists, strong inorganic
Nitric Acid	7697-37-2	Group 1 (Carcinogenic to Humans) - Monograph 100F [2012]; Monograph 54 [1992] As Acid mists, strong inorganic

National Toxicology Program (NTP)

Chemical Name	CAS Number	Classification
No data found.		

U.S. OSHA specifically regulated carcinogens

Chemical Name	CAS Number	Classification
No data found.		

11.3 Additional Toxicology Information:

Causes severe skin burns and eye damage.

SECTION 12: Ecological Information

12.1. Ecotoxicity

Chemical Name	CAS Number	Species	Exposure	Toxicity
Ammonium Thiocyanate	1762-95-4	Freshwater Fish	Acute	LC50 96 h Oncorhynchus mykiss 65 mg/L [static] (ECHA)
Ammonium Thiocyanate	1762-95-4	Water Flea	Chronic	NOEC 21 d Daphnia magna 1.25 mg/L [semi-static] (reproduction, ECHA_API)

12.2. Persistence and Degradability

Data not available.

12.3. Bioaccumulative Potential

Data not available.

12.4. Mobility in soil

Data not available.

12.5. Other Adverse Ecological Effects

Data not available.



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SECTION 13: Disposal Considerations

13.1. Waste Treatment Methods

Data not available.

SECTION 14: Transportation Information

14.1 Transportation by Land - Department of Transportation (DOT, United States of America)

Sizes: 100 mL

UN Number: UN2031

Proper Shipping Name: Nitric Acid Solution

Hazard Class: 8

Packing Group: II

Hazard Label(s):



14.2 Transportation by Air - International Air Transport Association (IATA)

Sizes: 100 mL

UN Number: UN2031

Proper Shipping Name: Nitric Acid Solution

Hazard Class: 8

Packing Group: II

Hazard Label(s):





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14.3 Transportation of Dangerous Goods (TDG, Canada)

Sizes: 100 mL

UN Number: UN2031

Proper Shipping Name: NITRIC ACID SOLUTION

Hazard Class: 8

Packing Group: II

Hazard Label(s):



SECTION 15: Regulatory Information

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15.01. Occupational Safety and Health Administration (OSHA) Hazards

Chemical Name	CAS Number	Regulatory Information
No data found.		

15.02. Superfund Amendments and Reauthorization Act (SARA) 302 Extremely Hazardous Substances

Chemical Name	CAS Number	RQ	TPQ
Hydrochloric Acid	7647-01-0	500 lb TPQ (gas only)	5000 lb EPCRA RQ (gas only)
Nitric Acid	7697-37-2	1000 lb TPQ	1000 lb EPCRA RQ

15.03. Superfund Amendments and Reauthorization Act (SARA) 311/312 Hazardous Chemicals

Chemical Name	CAS Number	Regulatory Information
Ammonium Thiocyanate	1762-95-4	5000 lb final RQ; 2270 kg final RQ
Hydrochloric Acid	7647-01-0	5000 lb final RQ; 2270 kg final RQ
Nitric Acid	7697-37-2	1000 lb final RQ; 454 kg final RQ

15.04. Superfund Amendments and Reauthorization Act (SARA) 313 Toxics Release Inventory (TRI)

Chemical Name	CAS Number	List	Regulatory Information
Indium (III) Nitrate Hydrate	13465-14-0	Emission Reporting	"1.0 % de minimis concentration (reportable only when in aqueous solution, listed under Chemical Category N511)" As Nitrate compounds, water dissociable [RR-03804-0]
Ammonium Thiocyanate	1762-95-4	Emission Reporting	"1.0 % de minimis concentration (X+CN ⁻ where X=H ⁺ or any other group where a formal dissociation can be made, for example, KCN or Ca(CN) ₂ , listed under Chemical Category N106)" As Cyanide compounds [RR-00812-8]; "1.0 % de minimis concentration (10% of total aqueous Ammonia is reportable under this listing)" As Aqueous ammonia from water dissociable ammonium salts and other sources [RR-47925-4]
Hydrochloric Acid	7647-01-0	Emission Reporting	1.0 % de minimis concentration (acid aerosols including mists, vapors, gas, fog, and other airborne forms of any particle size)
Nitric Acid	7697-37-2	Emission Reporting	1.0 % de minimis concentration

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Lithium Nitrate	7790-69-4	Emission Reporting	"1.0 % de minimis concentration (reportable only when in aqueous solution, listed under Chemical Category N511)" As Nitrate compounds, water dissociable [RR-03804-0]
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15.05. Massachusetts Right-to-Know Substance List

Chemical Name	CAS Number	Regulatory Information
Rhodium (III) Chloride	10049-07-7	Present
Ammonium Thiocyanate	1762-95-4	Present
Hydrochloric Acid	7647-01-0	Extraordinarily hazardous
Nitric Acid	7697-37-2	Extraordinarily hazardous

15.06. Pennsylvania Right-to-Know Hazardous Substances

Chemical Name	CAS Number	Regulatory Information
Ammonium Thiocyanate	1762-95-4	Environmental hazard
Hydrochloric Acid	7647-01-0	Environmental hazard
Nitric Acid	7697-37-2	Environmental hazard

15.07. New Jersey Worker and Community Right-to-Know Components

Chemical Name	CAS Number	Regulatory Information
Bismuth (III) Nitrate Pentahydrate	10035-06-0	"sn 3722" As Nitrate compounds [RR-01770-9]
Lutetium Nitrate	10099-67-9	"sn 3722" As Nitrate compounds [RR-01770-9]
Indium (III) Nitrate Hydrate	13465-14-0	"sn 3722" As Nitrate compounds [RR-01770-9]
Ammonium Thiocyanate	1762-95-4	sn 0119
Hydrochloric Acid	7647-01-0	sn 1012
Nitric Acid	7697-37-2	sn 1356
Lithium Nitrate	7790-69-4	sn 1130

15.08. California Proposition 65

Chemical Name	CAS Number	Regulatory Information
No data found.		

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15.09. Canada Domestic Substances List / Non-Domestic Substances List (DSL/NDSL)

Chemical Name	CAS Number	List	Status
Bismuth (III) Nitrate Pentahydrate	10035-06-0	DSL	"Present" As Nitric acid, bismuth(3+) salt [10361-44-1]
Rhodium (III) Chloride	10049-07-7	DSL	Present
Lutetium Nitrate	10099-67-9	NDSL	Present
Germanium Oxide	1310-53-8	DSL	Present (CEPA, subsection 81(3) applies)
Indium (III) Nitrate Hydrate	13465-14-0	NDSL	"Present" As Indium nitrate [13770-61-1]
Ammonium Thiocyanate	1762-95-4	DSL	Present
Terbium(III) Nitrate Pentahydrate	57584-27-7	NDSL	"Present" As Nitric acid, terbium(3+) salt [10043-27-3]
Hydrochloric Acid	7647-01-0	DSL	Present
Nitric Acid	7697-37-2	DSL	Present
Water	7732-18-5	DSL	Present
Lithium Nitrate	7790-69-4	DSL	Present

15.10. United States of America Toxic Substances Control Act (TSCA) List

Chemical Name	CAS Number	Status
Bismuth (III) Nitrate Pentahydrate	10035-06-0	"Present (ACTIVE)" As Nitric acid, bismuth(3+) salt (3:1) [10361-44-1]
Rhodium (III) Chloride	10049-07-7	Present (ACTIVE)
Lutetium Nitrate	10099-67-9	Present (ACTIVE)
Germanium Oxide	1310-53-8	Present (ACTIVE)
Indium (III) Nitrate Hydrate	13465-14-0	"Present (ACTIVE)" As Nitric acid, indium(3+) salt (3:1) [13770-61-1]
Ammonium Thiocyanate	1762-95-4	Present (ACTIVE)
Terbium(III) Nitrate Pentahydrate	57584-27-7	"Present (INACTIVE)" As Nitric acid, terbium(3+) salt (3:1) [10043-27-3]
Hydrochloric Acid	7647-01-0	Present (ACTIVE)
Nitric Acid	7697-37-2	Present (ACTIVE)
Water	7732-18-5	Present [XU] (ACTIVE)
Lithium Nitrate	7790-69-4	Present (ACTIVE)

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15.11. European Inventory of Existing Commercial Chemical Substances (EINECS), European List of Notified Chemical Substances (ELINCS), and No Longer Polymers (NLP)

Chemical Name	CAS Number	List	Number
Bismuth (III) Nitrate Pentahydrate	10035-06-0	EINECS	"233-791-8" As Bismuth trinitrate [10361-44-1]
Rhodium (III) Chloride	10049-07-7	EINECS	233-165-4
Lutetium Nitrate	10099-67-9	EINECS	233-241-7
Germanium Oxide	1310-53-8	EINECS	215-180-8
Indium (III) Nitrate Hydrate	13465-14-0	EINECS	"237-393-5" As Indium trinitrate [13770-61-1]
Ammonium Thiocyanate	1762-95-4	EINECS	217-175-6
Terbium(III) Nitrate Pentahydrate	57584-27-7	EINECS	"233-138-7" As Terbium trinitrate [10043-27-3]
Hydrochloric Acid	7647-01-0	EINECS	231-595-7
Nitric Acid	7697-37-2	EINECS	231-714-2
Water	7732-18-5	EINECS	231-791-2
Lithium Nitrate	7790-69-4	EINECS	232-218-9

15.12. China - Inventory of Existing chemical Substances (IECSC)

Chemical Name	CAS Number	Status
Bismuth (III) Nitrate Pentahydrate	10035-06-0	Present [35585]
Rhodium (III) Chloride	10049-07-7	Present [24088]
Germanium Oxide	1310-53-8	Present [11379]
Indium (III) Nitrate Hydrate	13465-14-0	"Present [35647]" As Indium(III) nitrate [13770-61-1]
Ammonium Thiocyanate	1762-95-4	Present [22994]
Hydrochloric Acid	7647-01-0	Present [37053]
Nitric Acid	7697-37-2	Present [35578]
Water	7732-18-5	Present [32224]
Lithium Nitrate	7790-69-4	Present [35605]

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15.13. Korea - Existing Chemicals Inventory (KECI/KECL)

Chemical Name	CAS Number	List	Status
Bismuth (III) Nitrate Pentahydrate	10035-06-0	Annex 1	"Present [KE-03368]" As Nitric acid, bismuth(3+) salt [10361-44-1]
Rhodium (III) Chloride	10049-07-7	Annex 1	Present [KE-30327]
Lutetium Nitrate	10099-67-9	Annex 1	Present [KE-22655]
Germanium Oxide	1310-53-8	Annex 1	Present [KE-17600]
Indium (III) Nitrate Hydrate	13465-14-0	Annex 1	"Present [KE-21006]" As Indium nitrate [13770-61-1]
Ammonium Thiocyanate	1762-95-4	Annex 1	Present [KE-01750]
Terbium(III) Nitrate Pentahydrate	57584-27-7	Annex 1	"Present [KE-33122]" As Nitric acid, terbium(3+) salt [10043-27-3]
Hydrochloric Acid	7647-01-0	Annex 1	Present [KE-20189]
Nitric Acid	7697-37-2	Annex 1	Present [KE-25911]
Water	7732-18-5	Annex 1	Present [KE-35400]
Lithium Nitrate	7790-69-4	Annex 1	Present [KE-22582]

15.14. Japan - Existing and New Chemical Substances Inventory (ENCS)

Chemical Name	CAS Number	MITI No.
Bismuth (III) Nitrate Pentahydrate	10035-06-0	"(1)-97" As Bismuth trinitrate [10361-44-1]
Rhodium (III) Chloride	10049-07-7	(1)-1147
Lutetium Nitrate	10099-67-9	(1)-774
Germanium Oxide	1310-53-8	(1)-706
Ammonium Thiocyanate	1762-95-4	(1)-142
Terbium(III) Nitrate Pentahydrate	57584-27-7	"(1)-787" As Terbium trinitrate [10043-27-3]
Hydrochloric Acid	7647-01-0	(1)-215
Nitric Acid	7697-37-2	(1)-394
Water	7732-18-5	- (listed on Japanese Pharmacopoeia 8th Edition)
Lithium Nitrate	7790-69-4	(1)-765

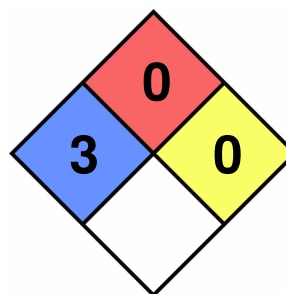
SECTION 16: Other Information

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16.1 National Fire Protection Associate (NFPA) Rating

Health: 3
Flammability: 0
Reactivity 0
Special Hazard:



16.2 Document Revision

Last Revision Date:
2026-05-22

DISCLAIMER

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration of its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and RICCA CHEMICAL COMPANY assumes no legal responsibility or liability whatsoever resulting from its use.