



Safety Data Sheet

Classified According to OSHA Hazard Communication Standard (HCS 2024)

SECTION 1: Identification

1.1. Product Identifier

Trade Name or Designation Mixed Calibration Standard 1, ICP

Product Number RMXCL1

Other Identifying Product Numbers RMXCL1-100

1.2. Recommended Use and Restrictions on Use

General Laboratory Reagent

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 2	H315	P264,P280,P302+P352,P321,P332+P313,P362+P364
Serious Eye Damage / Eye Irritation	Category 1	H318	P280,P305+P351+P338,P310
Corrosive to Metals	Category 1	H290	P234,P390,P406
Hazardous to the Aquatic Environment, Long-term (Chronic)	Chronic 3	H412	P273,P501

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
H315	Causes skin irritation
H318	Causes serious eye damage
H412	Harmful to aquatic life with long lasting effects

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.
P264	Wash hands, arms, and face thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves and eye protection.

Response

Precautionary Number	Precautionary Statement
P302+P352	IF ON SKIN: Wash with plenty of water.
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.
P332+P313	If skin irritation occurs: Get medical advice or attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P390	Absorb spillage to prevent material damage.

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

4.9 percent of this mixture consists of ingredient(s) of unknown acute oral toxicity. 5 percent of this mixture consists of ingredient(s) of unknown acute 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%
water	Water	7732-18-5	95.02
nitric acid	Nitric Acid	7697-37-2	4.87
lead	Lead	7439-92-1	< 0.1
selenium	Selenium	7782-49-2	< 0.1
cadmium	Cadmium	7440-43-9	< 0.1
zinc	Zinc	7440-66-6	< 0.1
manganese	Manganese	7439-96-5	< 0.1
beryllium	Beryllium	7440-41-7	< 0.1
fluorane	Hydrofluoric Acid	7664-39-3	< 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. May cause irritation, redness, pain, and tearing.

Ingestion: Dilute with water or milk. Do not induce vomiting. Call a physician if necessary.

Inhalation: Not expected to require first aid. If necessary, remove to fresh air.

Skin Contact: IF ON SKIN: Wash with plenty of water. May cause irritation, redness and pain. Contact will discolor skin yellow-brown depending on exposure which will wear off after a period of time.

4.2. Most Important Symptoms and Effects, Acute and Delayed

Causes skin irritation. Contains low levels of known carcinogens. Corrosive Liquid. Avoid contact with skin, eyes, and clothing. Avoid breathing vapor. If swallowed, do not induce vomiting. Dilute with water and call a physician. Wash areas of contact with plenty of water. EYE CONTACT: May cause irritation, redness, pain, and tearing. SKIN CONTACT: May cause irritation, redness and pain. Contact will discolor skin yellow-brown depending on exposure which will wear off after a period of time.

4.3. Immediate Medical Attention or Special Treatment Needed

Immediately call a poison center or doctor. Irrigate immediately with large quantity of water for at least 15 minutes. Call a physician if irritation develops. Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen. Flush with plenty of water for at least 15 minutes. Call a physician if irritation develops. Dilute with water or milk. Do not induce vomiting. Call a physician if necessary.

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SECTION 5: Fire-Fighting Measures

5.1. Extinguishing Media

Use water or water spray.

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

Not combustible, but substance is an oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition. Can react with metals to release flammable hydrogen gas.

5.3. Special Protective Equipment and Precautions for Firefighters

Use protective clothing and 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

Do not flush to sewer. Absorb with suitable material. Containerize for disposal with a hazardous waste disposal facility. Dispose of in accordance with local regulations.

SECTION 7: Handling and Storage

7.1. Precautions for Safe Handling and Storage Conditions

As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage.

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
Lead	7439-92-1	50 µg/m3 TWA
Beryllium	7440-41-7	0.2 µg/m3 TWA
Cadmium	7440-43-9	5 µg/m3 TWA
Hydrofluoric Acid	7664-39-3	3 ppm TWA (as F)
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
Manganese	7439-96-5	5 mg/m3 Ceiling (fume)
Beryllium	7440-41-7	2 µg/m3 Ceiling
Cadmium	7440-43-9	0.3 mg/m3 Ceiling (applies to any operations or sectors for which the Cadmium standard is stayed or otherwise not in effect, fume); 0.6 mg/m3 Ceiling (applies to any operations or sectors for which the Cadmium standard is stayed or otherwise not in effect, dust)

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

Chemical Name	CAS Number	Exposure Limit
Beryllium	7440-41-7	2 µg/m3 STEL (see 29 CFR 1910.1024)

U.S. OSHA - Specifically Regulated Chemicals

Chemical Name	CAS Number	Exposure Limit
Lead	7439-92-1	30 µg/m3 Action Level (See 29 CFR 1910.1025); 50 µg/m3 TWA
Beryllium	7440-41-7	0.2 µg/m3 TWA (See 29 CFR 1910.1024); 0.1 µg/m3 Action Level; 2.0 µg/m3 STEL (15 min)
Cadmium	7440-43-9	5 µg/m3 TWA (See 29 CFR 1910.1027); 2.5 µg/m3 Action Level

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

Chemical Name	CAS Number	Exposure Limit
Hydrofluoric Acid	7664-39-3	2 ppm Ceiling (as F)

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

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

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

Chemical Name	CAS Number	Exposure Limit
Lead	7439-92-1	0.05 mg/m3 TWA
Manganese	7439-96-5	0.02 mg/m3 TWA (respirable particulate matter); 0.1 mg/m3 TWA (inhalable particulate matter)
Beryllium	7440-41-7	0.00005 mg/m3 TWA (inhalable particulate matter)
Cadmium	7440-43-9	0.01 mg/m3 TWA; 0.002 mg/m3 TWA (respirable particulate matter)
Hydrofluoric Acid	7664-39-3	0.5 ppm TWA (as F)
Nitric Acid	7697-37-2	2 ppm TWA
Selenium	7782-49-2	0.2 mg/m3 TWA

8.2. Engineering Controls

No specific controls are needed. Normal room ventilation is adequate.

8.3. Individual Protective Measures and Personal Protective Equipment

Respiratory Protection: Normal room ventilation is adequate.

Skin Protection: Chemical resistant gloves.

Eye Protection: Safety glasses or goggles.

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SECTION 9: Physical and Chemical Properties

9.1. Basic Physical and Chemical Properties

Physical State:	liquid
Color:	Colorless
Odor:	Data not available.
Odor Threshold:	Data not available.
Melting/Freezing Point:	Data not available.
Boiling Point/Range:	Approximately 100°C
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:	miscible
Vapor Pressure:	Data not available.
Evaporation Rate:	Data not available.
Relative Density:	1.04
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. Strong bases, metallic powders.

10.4. Hazardous Decomposition Products

Will not occur.

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SECTION 11: Toxicological Information

11.1. Information on Toxicological Effects

Acute Toxicity - Oral Exposure:

Not acutely toxic.

Chemical Name	CAS Number	Toxicity
Manganese	7439-96-5	Oral LD50 Rat 9 g/kg (Source: NLM_CIP)
Beryllium	7440-41-7	Oral LD50 Acute Toxicity Estimate 100 mg/kg (Source: ECHA)
Cadmium	7440-43-9	Oral LD50 Rat 2300 mg/kg (Source: Canada_WHMIS)
Hydrofluoric Acid	7664-39-3	Oral LD50 Acute Toxicity Estimate 5 mg/kg (Source: Canada_WHMIS)
Selenium	7782-49-2	Oral LD50 Acute Toxicity Estimate 100 mg/kg (Source: ECHA)

Acute Toxicity - Dermal Exposure:

No information found.

Acute Toxicity - Inhalation Exposure:

Not acutely toxic.

Chemical Name	CAS Number	Toxicity
Manganese	7439-96-5	Inhalation LC50 Rat >5.14 mg/L 4 h (no deaths occurred, dust, Source: ECHA_API)
Beryllium	7440-41-7	Inhalation LC50 Acute Toxicity Estimate 0.05 mg/L 4 h (Source: ECHA)
Cadmium	7440-43-9	Inhalation LC50 Rat 25 mg/m3 30 min (Source: NLM_CIP)
Hydrofluoric Acid	7664-39-3	Inhalation LC50 Rat 0.79 mg/L 1 h (vapor, Source: JAPAN_GHS)
Nitric Acid	7697-37-2	Inhalation LC50 Rat 3.22 mg/L 4 h (Source: WHMIS)
Selenium	7782-49-2	Inhalation LC50 Acute Toxicity Estimate 0.5 mg/L 4 h (Source: ECHA)

11.2 Carcinogenicity:

International Agency for Research on Cancer (IARC)

Chemical Name	CAS Number	Classification
Lead	7439-92-1	Group 2B (Possibly Carcinogenic to Humans) - Supplement 7 [1987]; Monograph 23 [1980]
Beryllium	7440-41-7	Group 1 (Carcinogenic to Humans) - Monograph 100C [2012]; Monograph 58 [1993]; Supplement 7 [1987]
Cadmium	7440-43-9	Group 1 (Carcinogenic to Humans) - Monograph 100C [2012]; Monograph 58 [1993]; Supplement 7 [1987]
Nitric Acid	7697-37-2	Group 1 (Carcinogenic to Humans) - Monograph 100F [2012]; Monograph 54 [1992] As Acid mists, strong inorganic
Selenium	7782-49-2	Group 3 (Not Classified) - Supplement 7 [1987]; Monograph 9 [1975]



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National Toxicology Program (NTP)

Chemical Name	CAS Number	Classification
Lead	7439-92-1	Reasonably Anticipated To Be A Human Carcinogen (listed under Lead and lead compounds)
Beryllium	7440-41-7	Known Human Carcinogen
Cadmium	7440-43-9	Known Human Carcinogen

U.S. OSHA specifically regulated carcinogens

Chemical Name	CAS Number	Classification
Beryllium	7440-41-7	see 29 CFR 1910.1024
Cadmium	7440-43-9	see 29 CFR 1910.1027

11.3 Additional Toxicology Information:

Causes skin irritation. Causes serious eye damage.

SECTION 12: Ecological Information

12.1. Ecotoxicity

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Chemical Name	CAS Number	Species	Exposure	Toxicity
Zinc	7440-66-6	Freshwater Algae	Acute	EC50 96 h <i>Pseudokirchneriella subcapitata</i> 0.11 - 0.271 mg/L [static] (EPA); EC50 72 h <i>Pseudokirchneriella subcapitata</i> 0.09 - 0.125 mg/L [static] (EPA)
Lead	7439-92-1	Freshwater Fish	Acute	LC50 96 h <i>Cyprinus carpio</i> 0.44 mg/L [semi-static] (EPA); LC50 96 h <i>Oncorhynchus mykiss</i> 1.17 mg/L [flow-through] (EPA); LC50 96 h <i>Oncorhynchus mykiss</i> 1.32 mg/L [static] (EPA)
Manganese	7439-96-5	Freshwater Fish	Acute	LC50 96 h <i>Oncorhynchus mykiss</i> >3.6 mg/L [semi-static] (ECHA)
Cadmium	7440-43-9	Freshwater Fish	Acute	LC50 96 h <i>Oncorhynchus mykiss</i> 0.003 mg/L [flow-through] (EPA); LC50 96 h <i>Oncorhynchus mykiss</i> 0.006 mg/L [static] (EPA); LC50 96 h <i>Cyprinus carpio</i> 0.002 mg/L (EPA); LC50 96 h <i>Cyprinus carpio</i> 4.26 mg/L [semi-static] (EPA); LC50 96 h <i>Cyprinus carpio</i> 0.24 mg/L [static] (EPA); LC50 96 h <i>Lepomis macrochirus</i> 21.1 mg/L [flow-through] (EPA); LC50 96 h <i>Oryzias latipes</i> 0.016 mg/L (EPA); LC50 96 h <i>Pimephales promelas</i> 0.0004 - 0.003 mg/L (EPA)
Zinc	7440-66-6	Freshwater Fish	Acute	LC50 96 h <i>Pimephales promelas</i> 2.16 - 3.05 mg/L [flow-through] (EPA); LC50 96 h <i>Pimephales promelas</i> 0.211 - 0.269 mg/L [semi-static] (EPA); LC50 96 h <i>Pimephales promelas</i> 2.66 mg/L [static] (EPA); LC50 96 h <i>Cyprinus carpio</i> 30 mg/L (EPA); LC50 96 h <i>Cyprinus carpio</i> 0.45 mg/L [semi-static] (EPA); LC50 96 h <i>Cyprinus carpio</i> 7.8 mg/L [static] (EPA); LC50 96 h <i>Lepomis macrochirus</i> 3.5 mg/L [static] (EPA); LC50 96 h <i>Oncorhynchus mykiss</i> 0.24 mg/L [flow-through] (EPA); LC50 96 h <i>Oncorhynchus mykiss</i> 0.59 mg/L [semi-static] (EPA); LC50 96 h <i>Oncorhynchus mykiss</i> 0.41 mg/L [static] (EPA)
Selenium	7782-49-2	Freshwater Fish	Acute	LC50 96 h <i>Oncorhynchus mykiss</i> >100 mg/L [semi-static] (ECHA)
Lead	7439-92-1	Water Flea	Acute	EC50 48 h water flea 600 µg/L
Cadmium	7440-43-9	Water Flea	Acute	EC50 48 h <i>Daphnia magna</i> 0.0244 mg/L [Static] (EPA)

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Zinc	7440-66-6	Water Flea	Acute	EC50 48 h Daphnia magna 0.139 - 0.908 mg/L [Static] (EPA)
Hydrofluoric Acid	7664-39-3	Water Flea	Acute	EC50 48 h Daphnia species 270 mg/L (IUCLID)
Selenium	7782-49-2	Water Flea	Chronic	NOEC 21 d Daphnia magna $\geq 3.42 \mu\text{g/L}$ [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.

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: UN3264

Proper Shipping Name: Corrosive Liquid, Acidic, Inorganic, n.o.s. (Nitric Acid)

Hazard Class: 8

Packing Group: III

Hazard Label(s):





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

Sizes: 100 mL

UN Number: UN3264

Proper Shipping Name: Corrosive Liquid, Acidic, Inorganic, n.o.s. (Nitric Acid)

Hazard Class: 8

Packing Group: III

Hazard Label(s):



14.3 Transportation of Dangerous Goods (TDG, Canada)

Sizes: 100 mL

UN Number: UN3264

Proper Shipping Name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (nitric acid)

Hazard Class: 8

Packing Group: III

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
Lead	7439-92-1	30 µg/m ³ Action Level (See 29 CFR 1910.1025); 50 µg/m ³ TWA (See 29 CFR 1910.1025)
Beryllium	7440-41-7	0.2 µg/m ³ TWA (See 29 CFR 1910.1024); 0.1 µg/m ³ Action Level (See 29 CFR 1910.1024); 2.0 µg/m ³ STEL (See 29 CFR 1910.1024, 15 min)
Cadmium	7440-43-9	5 µg/m ³ TWA (See 29 CFR 1910.1027); 2.5 µg/m ³ Action Level

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

Chemical Name	CAS Number	RQ	TPQ
Hydrofluoric Acid	7664-39-3	100 lb TPQ	100 lb EPCRA RQ
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
Lead	7439-92-1	10 lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm); 4.54 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm)
Beryllium	7440-41-7	10 lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm); 4.54 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm)
Cadmium	7440-43-9	10 lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm); 4.54 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm)
Zinc	7440-66-6	454 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm); 1000 lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm)
Hydrofluoric Acid	7664-39-3	100 lb final RQ; 45.4 kg final RQ
Nitric Acid	7697-37-2	1000 lb final RQ; 454 kg final RQ
Selenium	7782-49-2	100 lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm); 45.4 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm)

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

Chemical Name	CAS Number	List	Regulatory Information
Lead	7439-92-1	Emission Reporting	not eligible for the de minimis exemption
Lead	7439-92-1	Chemicals of Special Concern	100 lb RT (this lower threshold does not apply to lead when it is contained in stainless steel, brass or bronze alloy)
Manganese	7439-96-5	Emission Reporting	1.0 % de minimis concentration
Beryllium	7440-41-7	Emission Reporting	0.1 % de minimis concentration
Cadmium	7440-43-9	Emission Reporting	0.1 % de minimis concentration
Zinc	7440-66-6	Emission Reporting	1.0 % de minimis concentration (dust or fume only)
Hydrofluoric Acid	7664-39-3	Emission Reporting	1.0 % de minimis concentration
Nitric Acid	7697-37-2	Emission Reporting	1.0 % de minimis concentration
Selenium	7782-49-2	Emission Reporting	1.0 % de minimis concentration

15.05. Massachusetts Right-to-Know Substance List

Chemical Name	CAS Number	Regulatory Information
Lead	7439-92-1	Teratogen
Manganese	7439-96-5	Present
Beryllium	7440-41-7	Carcinogen; Extraordinarily hazardous
Cadmium	7440-43-9	Carcinogen; Extraordinarily hazardous
Zinc	7440-66-6	Present
Hydrofluoric Acid	7664-39-3	Extraordinarily hazardous
Nitric Acid	7697-37-2	Extraordinarily hazardous
Selenium	7782-49-2	Present

15.06. Pennsylvania Right-to-Know Hazardous Substances

Chemical Name	CAS Number	Regulatory Information
Lead	7439-92-1	Environmental hazard
Manganese	7439-96-5	Environmental hazard
Beryllium	7440-41-7	Environmental hazard (dust; metal); Special hazardous substance
Cadmium	7440-43-9	Environmental hazard (dust; fume; metal; powder); Special hazardous substance (metal; powder)
Zinc	7440-66-6	Environmental hazard
Hydrofluoric Acid	7664-39-3	Environmental hazard
Nitric Acid	7697-37-2	Environmental hazard
Selenium	7782-49-2	Environmental hazard

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

Chemical Name	CAS Number	Regulatory Information
Lead	7439-92-1	sn 1096
Manganese	7439-96-5	sn 1155
Beryllium	7440-41-7	sn 0222
Cadmium	7440-43-9	sn 0305
Zinc	7440-66-6	sn 2021
Hydrofluoric Acid	7664-39-3	sn 3759
Nitric Acid	7697-37-2	sn 1356
Selenium	7782-49-2	sn 1648

15.08. California Proposition 65

Chemical Name	CAS Number	Regulatory Information
Lead	7439-92-1	carcinogen, 10/1/1992
Lead	7439-92-1	developmental toxicity, 2/27/1987
Lead	7439-92-1	male reproductive toxicity, 2/27/87
Lead	7439-92-1	female reproductive toxicity 2/27/87
Lead	7439-92-1	15 µg/day NSRL (oral)
Beryllium	7440-41-7	carcinogen, 10/1/1987
Beryllium	7440-41-7	0.1 µg/day NSRL
Cadmium	7440-43-9	carcinogen, 10/1/1987
Cadmium	7440-43-9	developmental toxicity, 5/1/1997
Cadmium	7440-43-9	male reproductive toxicity, 5/1/97
Cadmium	7440-43-9	0.05 µg/day NSRL (inhalation)

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

Chemical Name	CAS Number	List	Status
Lead	7439-92-1	DSL	Present
Manganese	7439-96-5	DSL	Present
Beryllium	7440-41-7	DSL	Present
Cadmium	7440-43-9	DSL	Present
Zinc	7440-66-6	DSL	Present
Hydrofluoric Acid	7664-39-3	DSL	Present
Nitric Acid	7697-37-2	DSL	Present
Water	7732-18-5	DSL	Present
Selenium	7782-49-2	DSL	Present

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

Chemical Name	CAS Number	Status
Lead	7439-92-1	Present (ACTIVE)
Manganese	7439-96-5	Present (ACTIVE)
Beryllium	7440-41-7	Present (ACTIVE)
Cadmium	7440-43-9	Present (ACTIVE)
Zinc	7440-66-6	Present (ACTIVE)
Hydrofluoric Acid	7664-39-3	Present (ACTIVE)
Nitric Acid	7697-37-2	Present (ACTIVE)
Water	7732-18-5	Present [XU] (ACTIVE)
Selenium	7782-49-2	Present (ACTIVE)

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
Lead	7439-92-1	EINECS	231-100-4
Manganese	7439-96-5	EINECS	231-105-1
Beryllium	7440-41-7	EINECS	231-150-7
Cadmium	7440-43-9	EINECS	231-152-8
Zinc	7440-66-6	EINECS	231-175-3
Hydrofluoric Acid	7664-39-3	EINECS	231-634-8
Nitric Acid	7697-37-2	EINECS	231-714-2
Water	7732-18-5	EINECS	231-791-2
Selenium	7782-49-2	EINECS	231-957-4

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

Chemical Name	CAS Number	Status
Lead	7439-92-1	Present [25764]
Manganese	7439-96-5	Present [24928]
Beryllium	7440-41-7	Present [25604]
Cadmium	7440-43-9	Present [13601]
Zinc	7440-66-6	Present [35873]
Hydrofluoric Acid	7664-39-3	Present [27221]
Nitric Acid	7697-37-2	Present [35578]
Water	7732-18-5	Present [32224]
Selenium	7782-49-2	Present [35336]

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

Chemical Name	CAS Number	List	Status
Lead	7439-92-1	Annex 1	Present [KE-21887]
Manganese	7439-96-5	Annex 1	Present [KE-22999]
Beryllium	7440-41-7	Annex 1	Present [KE-02829]
Cadmium	7440-43-9	Annex 1	Present [KE-04397]
Zinc	7440-66-6	Annex 1	Present [KE-35518]
Hydrofluoric Acid	7664-39-3	Annex 1	Present [KE-20198]
Nitric Acid	7697-37-2	Annex 1	Present [KE-25911]
Water	7732-18-5	Annex 1	Present [KE-35400]
Selenium	7782-49-2	Annex 1	Present [KE-30924]

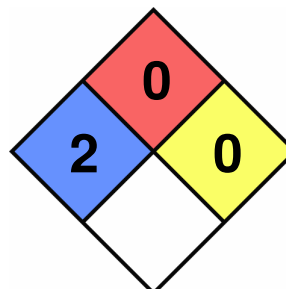
15.14. Japan - Existing and New Chemical Substances Inventory (ENCS)

Chemical Name	CAS Number	MITI No.
Lead	7439-92-1	- (exempt)
Manganese	7439-96-5	- (exempt)
Beryllium	7440-41-7	- (exempt)
Cadmium	7440-43-9	- (exempt)
Zinc	7440-66-6	- (exempt)
Hydrofluoric Acid	7664-39-3	(1)-306
Nitric Acid	7697-37-2	(1)-394
Water	7732-18-5	- (listed on Japanese Pharmacopoeia 8th Edition)
Selenium	7782-49-2	- (exempt)

SECTION 16: Other Information

16.1 National Fire Protection Associate (NFPA) Rating

Health: 2
Flammability: 0
Reactivity: 0
Special Hazard:





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16.2 Document Revision

Last Revision Date:

2026-05-23

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.