Classified According to OSHA Hazard Communication Standard (HCS)

SECTION 1: Identification

1.1. Product Identifier

Trade Name or Designation: Multielement ICP Standard, 7 elements @ 1,000 ppm in 5% HNO₃

Product Number: RPMX014N

Other Identifying Product Numbers: RPMX014N-500N

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: 448 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

For the full text of the Hazard and Precautionary Statements listed below, see Section 16.

		Hazard	
Hazard Class	Category	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
Eye Damage / Irritation	Category 1	H318	P280, P305+P351+P338, P310
Skin Sensitizer	Category 1	H317	P261, P272, P280, P302+P352, P332+P313,
			P321, P363, P501
Carcinogenicity	Category 1	H350	P201, P202, P280, P308+P313, P405, P501
Reproductive Toxicity	Category 1	H360	P201, P202, P280, P308+P313, P405, P501
Corrosive to Metals	Category 1	H290	P234, P390, P406
Hazardous to the Aquatic Environment (Chronic)	Category 3	H412	P273, P501

2.2. GHS Label Elements

Pictograms:





Signal Word: Danger

Hazard Statements:

Hazard Number	Hazard Statement
H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H350	May cause cancer.
H360	May damage fertility or the unborn child.
H412	Harmful to aquatic life with long lasting effects.

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Precautionary Statements:

Precautionary Number	Precautionary Statement
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P234	Keep only in original container.
P260	Do not breathe fumes, mist, vapors, or spray.
P261	Avoid breathing fumes, mist, vapors, or spray.
P264	Wash arms, hands and face thoroughly after handling.
P272	Contaminated work clothing must not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves and eye protection.
P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
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.
P308+P313	IF exposed or concerned: Get medical attention.
P310	Immediately call a POISON CENTER or physician.
P321	Specific treatment (Wash areas of contact with water immediately).
P332+P313	If skin irritation occurs: Get medical attention.
P363	Wash contaminated clothing before reuse.
P390	Absorb spillage to prevent material damage.
P405	Store locked up.
P406	Store in corrosive resistant container with a resistant inner liner.
P501	Dispose of contents in accordance with local, state, federal and international regulations.

2.4. Hazards not Otherwise Classified or Covered by GHS

Data not available.

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SECTION 3: Composition / Information on Ingredients

3.1. Components of Substance or Mixture

Chemical Name	Formula	Molecular Weight	CAS Number	Weight%
Water	H₂O	18.01 g/mol	7732-18-5	93.74
Nitric Acid	HNO ₃	63.01 g/mol	7697-37-2	4.86
Chromium Nitrate Nonahydrate	Cr(NO ₃) ₃ ·9H ₂ O	238.01 g/mol	7789-02-8	0.73
Barium Nitrate	Ba(NO ₃) ₂	261.33 g/mol	10022-31-8	0.18
Cadmium	Cd	112.41 g/mol	7440-43-9	0.10
Beryllium	Be	9.01 g/mol	7440-41-7	0.10
Arsenic	As	74.92 g/mol	7440-38-2	0.10
Thallium	TI	204.38 g/mol	7440-28-0	0.10
Lead	Pb	207.2 g/mol	7439-92-1	0.10
Hydrofluoric Acid	HF	20.00 g/mol	7664-39-3	< 0.1

SECTION 4: First-Aid Measures

4.1. General First Aid Information

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.

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. May cause irritation, redness and

pain. Contact will discolor skin yellow-brown depending on exposure which will wear off after a period of time.

Ingestion: IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Dilute with water or milk. Do not induce vomiting. Call a physician if

necessary.

4.2. Most Important Symptoms and Effects, Acute and Delayed

Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes serious eye damage. May cause cancer. May damage fertility or the unborn child. Contains 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. CHRONIC EFFECTS / CARCINOGENICITY: Chronic exposure may affect kidneys and liver.

4.3. Medical Attention or Special Treatment Needed

Immediately call a POISON CENTER or physician. Specific treatment (Wash areas of contact with water immediately). 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 i difficult, give oxygen. Immediately flush with plenty of water for at least 15 minutes. Remove any contaminated clothing. Wash with soap and water, th flush again with water. 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

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 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

Store in corrosive resistant container with a resistant inner liner. As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage.

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SECTION 8: Exposure Controls / Personal Protection

8.1 Control Parameters

Chemical Name	Limit Type	Country	Exposure Limit	Information Source
Barium Nitrate (10022-31-8)	TLV-TWA	USA	"0.5 mg/m³ TWA (as Ba)" As Barium soluble compounds [RR-00049-7]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Barium Nitrate (10022-31-8)	TWA	USA	"0.5 mg/m³ TWA (regulated under CAS 7440-39-3, as Ba)" As Barium, soluble compounds [RR-00049-7]	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)
Barium Nitrate (10022-31-8)	TLV-TWA	USA	0.5 mg/m³ TWA (as Ba)	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Barium Nitrate (10022-31-8)	TWA	USA	0.5 mg/m³ TWA (regulated under CAS 7440-39-3, as Ba)	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)
Lead (7439-92-1)	PEL	USA	"30 μg/m³ Action Level (See 29 CFR 1910.1025); 50 μg/m³ TWA" As Lead [7439-92-1]	U.S OSHA - Specifically Regulated Chemicals with PELs
Lead (7439-92-1)	TLV-TWA	USA	"0.05 mg/m³ TWA" As Lead [7439-92-1]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Lead (7439-92-1)	TWA	USA	"50 μg/m³ TWA" As Lead [7439-92-1]	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)
Lead (7439-92-1)	TLV-TWA	USA	0.05 mg/m³ TWA	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Lead (7439-92-1)	TWA	USA	50 μg/m³ TWA	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)
Lead (7439-92-1)	PEL	USA	30 μg/m³ Action Level (See 29 CFR 1910.1025); 50 μg/m³ TWA	U.S OSHA - Specifically Regulated Chemicals with PELs
Lead (7439-92-1)	PEL	USA	"30 µg/m³ Action Level (See 29 CFR 1910.1025, as Pb); 50 µg/m³ TWA (as Pb)" As Lead, inorganic compounds [RR-00538-9]	U.S OSHA - Specifically Regulated Chemicals with PELs
Lead (7439-92-1)	TLV-TWA	USA	"0.05 mg/m³ TWA (as Pb)" As Lead inorganic compounds [RR-00538-9]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)

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Lead (7439-92-1)	TWA	USA	"50 μg/m³ TWA (as Pb)" As	U.S OSHA - Final PELs - Time
			Lead, inorganic compounds [RR-00538-9]	Weighted Averages (TWAs)
Thallium (7440-28-0)	TLV-TWA	USA	"0.02 mg/m3 TWA (inhalable	ACGIH - Threshold Limit Values - Time
			particulate matter)" As	Weighted Averages (TLV-TWA)
			Thallium [7440-28-0]	
Thallium (7440-28-0)	TLV-TWA	USA	"0.02 mg/m3 TWA (inhalable	ACGIH - Threshold Limit Values - Time
			particulate matter)" As	Weighted Averages (TLV-TWA)
			Thallium [7440-28-0]	
Thallium (7440-28-0)	TLV-TWA	USA	0.02 mg/m3 TWA (inhalable	ACGIH - Threshold Limit Values - Time
			particulate matter)	Weighted Averages (TLV-TWA)
Thallium (7440-28-0)	TLV-TWA	USA	"0.02 mg/m³ TWA (inhalable	ACGIH - Threshold Limit Values - Time
			particulate matter)" As	Weighted Averages (TLV-TWA)
			Thallium [7440-28-0]	
Thallium (7440-28-0)	TLV-TWA	USA	"0.02 mg/m³ TWA (inhalable	ACGIH - Threshold Limit Values - Time
			particulate matter, as TI)" As	Weighted Averages (TLV-TWA)
			Thallium compounds	
			[RR-00575-4]	
Arsenic (7440-38-2)	TLV-TWA	USA	"0.01 mg/m³ TWA" As	ACGIH - Threshold Limit Values - Time
,			Arsenic, elemental	Weighted Averages (TLV-TWA)
			[7440-38-2]	
Arsenic (7440-38-2)	TLV-TWA	USA	"0.01 mg/m³ TWA" As	ACGIH - Threshold Limit Values - Time
			Arsenic, elemental	Weighted Averages (TLV-TWA)
			[7440-38-2]	
Arsenic (7440-38-2)	TLV-TWA	USA	0.01 mg/m³ TWA	ACGIH - Threshold Limit Values - Time
				Weighted Averages (TLV-TWA)
Arsenic (7440-38-2)	TLV-TWA	USA	"0.01 mg/m³ TWA (as As)"	ACGIH - Threshold Limit Values - Time
			As Arsenic inorganic	Weighted Averages (TLV-TWA)
			compounds [RR-00065-7]	
Arsenic (7440-38-2)	TWA	USA	"10 μg/m³ TWA (as As)" As	U.S OSHA - Final PELs - Time
			Arsenic, inorganic	Weighted Averages (TWAs)
			compounds [RR-00065-7]	
Arsenic (7440-38-2)	PEL	USA	"10 μg/m³ TWA (See 29	U.S OSHA - Specifically Regulated
			CFR 1910.1018; except	Chemicals with PELs
			Arsine, as As); 5 μg/m ³	
			Action Level (as As)" As	
			Inorganic arsenic	
			compounds [RR-00065-7]	
Arsenic (7440-38-2)	TLV-TWA	USA	"0.01 mg/m³ TWA" As	ACGIH - Threshold Limit Values - Time
•			Arsenic, elemental	Weighted Averages (TLV-TWA)
			[7440-38-2]	

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Arsenic (7440-38-2)	TLV-TWA	USA	"0.01 mg/m³ TWA" As Arsenic, elemental [7440-38-2]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Beryllium (7440-41-7)	TWA	USA	0.2 μg/m³ TWA	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)
Beryllium (7440-41-7)	TLV-TWA	USA	0.00005 mg/m³ TWA (inhalable particulate matter)	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Beryllium (7440-41-7)	PEL-STEL	USA	2 μg/m³ STEL (see 29 CFR 1910.1024)	U.S OSHA - Final PELs - Short Term Exposure Limits
Beryllium (7440-41-7)	PEL-Ceiling	USA	2 μg/m³ Ceiling	U.S OSHA - Final PELs - Ceiling Limits
Beryllium (7440-41-7)	PEL	USA	0.2 μg/m³ TWA (See 29 CFR 1910.1024); 0.1 μg/m³ Action Level; 2.0 μg/m³ STEL (15 min)	U.S OSHA - Specifically Regulated Chemicals with PELs
Beryllium (7440-41-7)	PEL-Ceiling	USA	"2 μg/m³ Ceiling (as Be)" As Beryllium compounds [RR-00557-2]	U.S OSHA - Final PELs - Ceiling Limits
Beryllium (7440-41-7)	TWA	USA	"0.2 μg/m³ TWA (as Be)" As Beryllium compounds [RR-00557-2]	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)
Beryllium (7440-41-7)	TLV-TWA	USA	"0.00005 mg/m³ TWA (inhalable particulate matter, as Be)" As Beryllium compounds [RR-00557-2]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Beryllium (7440-41-7)	PEL-Ceiling	USA	"2 μg/m³ Ceiling" As Beryllium [7440-41-7]	U.S OSHA - Final PELs - Ceiling Limits
Beryllium (7440-41-7)	PEL	USA	"0.2 μg/m³ TWA (See 29 CFR 1910.1024); 0.1 μg/m³ Action Level; 2.0 μg/m³ STEL (15 min)" As Beryllium [7440-41-7]	U.S OSHA - Specifically Regulated Chemicals with PELs
Beryllium (7440-41-7)	TLV-TWA	USA	"0.00005 mg/m³ TWA (inhalable particulate matter)" As Beryllium [7440-41-7]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Beryllium (7440-41-7)	PEL-STEL	USA	"2 μg/m³ STEL (see 29 CFR 1910.1024)" As Beryllium [7440-41-7]	U.S OSHA - Final PELs - Short Term Exposure Limits
Beryllium (7440-41-7)	TWA	USA	"0.2 μg/m³ TWA" As Beryllium [7440-41-7]	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)

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Cadmium (7440-43-9)	PEL-Ceiling	USA	0.3 mg/m³ Ceiling (applies to any operations or sectors for which the Cadmium standard is stayed or otherwise not in effect,	U.S OSHA - Final PELs - Ceiling Limits
			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)	
Cadmium (7440-43-9)	TWA	USA	5 μg/m³ TWA	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)
Cadmium (7440-43-9)	TLV-TWA	USA	0.01 mg/m³ TWA; 0.002 mg/m³ TWA (respirable particulate matter)	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Cadmium (7440-43-9)	PEL	USA	5 μg/m³ TWA (See 29 CFR 1910.1027); 2.5 μg/m³ Action Level	U.S OSHA - Specifically Regulated Chemicals with PELs
Cadmium (7440-43-9)	TLV-TWA	USA	"0.01 mg/m³ TWA (as Cd); 0.002 mg/m³ TWA (respirable particulate matter, as Cd)" As Cadmium compounds [RR-00559-4]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Cadmium (7440-43-9)	PEL	USA	"5 μg/m³ TWA (See 29 CFR 1910.1027, as Cd); 2.5 μg/m³ Action Level (as Cd)" As Cadmium compounds [RR-00559-4]	U.S OSHA - Specifically Regulated Chemicals with PELs
Hydrofluoric Acid (7664-39-3)	TWA	USA	"3 ppm TWA (as F)" As Hydrogen fluoride [7664-39-3]; "2.5 mg/m³ TWA (as F)" As Fluorides [RR-02792-9]	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)
Hydrofluoric Acid (7664-39-3)	TLV-Ceiling	USA	"2 ppm Ceiling (as F)" As Hydrogen fluoride [7664-39-3]	ACGIH - Threshold Limit Values - Ceilings (TLV-C)

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Hydrofluoric Acid (7664-39-3)	TLV-TWA	USA	"0.5 ppm TWA (as F)" As	ACGIH - Threshold Limit Values - Time
			Hydrogen fluoride	Weighted Averages (TLV-TWA)
			[7664-39-3];	
			"2.5 mg/m³ TWA (as F)" As	
			Fluorides [RR-02792-9]	
Hydrofluoric Acid (7664-39-3)	TLV-TWA	USA	"0.5 ppm TWA (as F)" As	ACGIH - Threshold Limit Values - Time
			Hydrogen fluoride	Weighted Averages (TLV-TWA)
			[7664-39-3]	
Hydrofluoric Acid (7664-39-3)	TWA	USA	"3 ppm TWA (as F)" As	U.S OSHA - Final PELs - Time
			Hydrogen fluoride	Weighted Averages (TWAs)
			[7664-39-3]	
Hydrofluoric Acid (7664-39-3)	TLV-Ceiling	USA	"2 ppm Ceiling (as F)" As	ACGIH - Threshold Limit Values -
			Hydrogen fluoride	Ceilings (TLV-C)
			[7664-39-3]	
Hydrofluoric Acid (7664-39-3)	TLV-TWA	USA	0.5 ppm TWA (as F)	ACGIH - Threshold Limit Values - Time
,				Weighted Averages (TLV-TWA)
Hydrofluoric Acid (7664-39-3)	TLV-Ceiling	USA	2 ppm Ceiling (as F)	ACGIH - Threshold Limit Values -
,	_			Ceilings (TLV-C)
Hydrofluoric Acid (7664-39-3)	TWA	USA	3 ppm TWA (as F)	U.S OSHA - Final PELs - Time
				Weighted Averages (TWAs)
Hydrofluoric Acid (7664-39-3)	TWA	USA	2.5 mg/m³ TWA (as F)	U.S OSHA - Final PELs - Time
				Weighted Averages (TWAs)
Hydrofluoric Acid (7664-39-3)	TLV-TWA	USA	2.5 mg/m³ TWA (as F)	ACGIH - Threshold Limit Values - Time
				Weighted Averages (TLV-TWA)
Hydrofluoric Acid (7664-39-3)	TLV-Ceiling	USA	"2 ppm Ceiling (as F)" As	ACGIH - Threshold Limit Values -
, ,	_		Hydrogen fluoride	Ceilings (TLV-C)
			[7664-39-3]	- , ,
Hydrofluoric Acid (7664-39-3)	TLV-TWA	USA	"0.5 ppm TWA (as F)" As	ACGIH - Threshold Limit Values - Time
- , ,			Hydrogen fluoride	Weighted Averages (TLV-TWA)
			[7664-39-3]	,
Hydrofluoric Acid (7664-39-3)	TWA	USA	"3 ppm TWA (as F)" As	U.S OSHA - Final PELs - Time
			Hydrogen fluoride	Weighted Averages (TWAs)
			[7664-39-3]	, ,
Hydrofluoric Acid (7664-39-3)	TLV-Ceiling	USA	"2 ppm Ceiling (as F)" As	ACGIH - Threshold Limit Values -
	J		Hydrogen fluoride	Ceilings (TLV-C)
			[7664-39-3]	,
Hydrofluoric Acid (7664-39-3)	TLV-TWA	USA	"0.5 ppm TWA (as F)" As	ACGIH - Threshold Limit Values - Time
,			Hydrogen fluoride	Weighted Averages (TLV-TWA)
			[7664-39-3]	5 5 - ()

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Hydrofluoric Acid (7664-39-3)	TWA	USA	"3 ppm TWA (as F)" As	U.S OSHA - Final PELs - Time
			Hydrogen fluoride [7664-39-3]	Weighted Averages (TWAs)
Nitric Acid (7697-37-2)	TLV-STEL	USA	"4 ppm STEL" As Nitric acid	ACGIH - Threshold Limit Values - Short
			[7697-37-2]	Term Exposure Limits (TLV-STEL)
Nitric Acid (7697-37-2)	TLV-TWA	USA	"2 ppm TWA" As Nitric acid	ACGIH - Threshold Limit Values - Time
			[7697-37-2]	Weighted Averages (TLV-TWA)
Nitric Acid (7697-37-2)	TWA	USA	"2 ppm TWA; 5 mg/m ³	U.S OSHA - Final PELs - Time
			TWA" As Nitric acid	Weighted Averages (TWAs)
			[7697-37-2]	
Nitric Acid (7697-37-2)	TLV-TWA	USA	"2 ppm TWA" As Nitric acid	ACGIH - Threshold Limit Values - Time
			[7697-37-2]	Weighted Averages (TLV-TWA)
Nitric Acid (7697-37-2)	TWA	USA	"2 ppm TWA; 5 mg/m ³	U.S OSHA - Final PELs - Time
			TWA" As Nitric acid	Weighted Averages (TWAs)
			[7697-37-2]	
Nitric Acid (7697-37-2)	TLV-STEL	USA	"4 ppm STEL" As Nitric acid	ACGIH - Threshold Limit Values - Short
			[7697-37-2]	Term Exposure Limits (TLV-STEL)
Nitric Acid (7697-37-2)	TLV-STEL	USA	4 ppm STEL	ACGIH - Threshold Limit Values - Short
				Term Exposure Limits (TLV-STEL)
Nitric Acid (7697-37-2)	TLV-TWA	USA	2 ppm TWA	ACGIH - Threshold Limit Values - Time
				Weighted Averages (TLV-TWA)
Nitric Acid (7697-37-2)	TWA	USA	2 ppm TWA; 5 mg/m ³ TWA	U.S OSHA - Final PELs - Time
				Weighted Averages (TWAs)
Nitric Acid (7697-37-2)	TWA	USA	"2 ppm TWA; 5 mg/m ³	U.S OSHA - Final PELs - Time
			TWA" As Nitric acid	Weighted Averages (TWAs)
			[7697-37-2]	
Nitric Acid (7697-37-2)	TLV-TWA	USA	"2 ppm TWA" As Nitric acid	ACGIH - Threshold Limit Values - Time
			[7697-37-2]	Weighted Averages (TLV-TWA)
Nitric Acid (7697-37-2)	TLV-STEL	USA	"4 ppm STEL" As Nitric acid	ACGIH - Threshold Limit Values - Short
			[7697-37-2]	Term Exposure Limits (TLV-STEL)
Nitric Acid (7697-37-2)	TWA	USA	"2 ppm TWA; 5 mg/m ³	U.S OSHA - Final PELs - Time
			TWA" As Nitric acid	Weighted Averages (TWAs)
			[7697-37-2]	
Nitric Acid (7697-37-2)	TLV-STEL	USA	"4 ppm STEL" As Nitric acid	ACGIH - Threshold Limit Values - Short
			[7697-37-2]	Term Exposure Limits (TLV-STEL)
Nitric Acid (7697-37-2)	TLV-TWA	USA	"2 ppm TWA" As Nitric acid	ACGIH - Threshold Limit Values - Time
			[7697-37-2]	Weighted Averages (TLV-TWA)
Nitric Acid (7697-37-2)	TWA	USA	"2 ppm TWA; 5 mg/m ³	U.S OSHA - Final PELs - Time
			TWA" As Nitric acid	Weighted Averages (TWAs)
			[7697-37-2]	

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Nitric Acid (7697-37-2)	TLV-TWA	USA	"2 ppm TWA" As Nitric acid	ACGIH - Threshold Limit Values - Time
			[7697-37-2]	Weighted Averages (TLV-TWA)
Nitric Acid (7697-37-2)	TLV-STEL	USA	"4 ppm STEL" As Nitric acid	ACGIH - Threshold Limit Values - Short
			[7697-37-2]	Term Exposure Limits (TLV-STEL)
Nitric Acid (7697-37-2)	TLV-TWA	USA	"2 ppm TWA" As Nitric acid	ACGIH - Threshold Limit Values - Time
			[7697-37-2]	Weighted Averages (TLV-TWA)
Nitric Acid (7697-37-2)	TLV-STEL	USA	"4 ppm STEL" As Nitric acid	ACGIH - Threshold Limit Values - Short
			[7697-37-2]	Term Exposure Limits (TLV-STEL)
Nitric Acid (7697-37-2)	TWA	USA	"2 ppm TWA; 5 mg/m ³	U.S OSHA - Final PELs - Time
			TWA" As Nitric acid	Weighted Averages (TWAs)
			[7697-37-2]	
Chromium Nitrate Nonahydrate	(7789-(TWA	USA	"0.5 mg/m³ TWA (as Cr)" As	U.S OSHA - Final PELs - Time
			Chromium(III) compounds	Weighted Averages (TWAs)
			[RR-03889-1]	
Chromium Nitrate Nonahydrate (7789-(TWA		USA	"0.5 mg/m³ TWA (as Cr)" As	U.S OSHA - Final PELs - Time
			Chromium(III) compounds	Weighted Averages (TWAs)
			[RR-03889-1]	
Chromium Nitrate Nonahydrate	(7789-(TWA	USA	0.5 mg/m³ TWA (as Cr)	U.S OSHA - Final PELs - Time
				Weighted Averages (TWAs)
Chromium Nitrate Nonahydrate	(7789-(TWA	USA	"0.5 mg/m³ TWA (as Cr)" As	U.S OSHA - Final PELs - Time
			Chromium(III) compounds	Weighted Averages (TWAs)
			[RR-03889-1]	
Chromium Nitrate Nonahydrate	(7789-(TWA	USA	"0.5 mg/m³ TWA (as Cr)" As	U.S OSHA - Final PELs - Time
			Chromium(III) compounds	Weighted Averages (TWAs)
			[RR-03889-1]	
Chromium Nitrate Nonahydrate	(7789-(TWA	USA	"0.5 mg/m³ TWA (as Cr)" As Chromium(III) compounds	

8.2. Exposure Controls

Engineering Controls: No specific controls are needed. Normal room ventilation is adequate.

Respiratory Protection: Normal room ventilation is adequate.

Skin Protection: Wear protective gloves and eye protection. Chemical resistant gloves. **Eye Protection:** Wear protective gloves and eye protection. Safety glasses or goggles.

8.3. Personal Protective Equipment

Wear protective gloves and eye protection. Normal room ventilation is adequate. Chemical resistant gloves. Safety glasses or goggles.

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SECTION 9: Physical and Chemical Properties

9.1. Basic Physical and Chemical Properties

Appearance: Dark blue liquid

Physical State: Liquid

Odor: Data not available.

Odor Threshold: Data not available.

pH: Data not available.

Melting/Freezing Point: Approximately 0°C

Initial Boiling Point/Range: Approximately 100°C - Approximately 100°C

Flash Point: Data not available.

Evaporation Rate: Data not available.

Flammability: Data not available.

Flammability/Explosive Limits: Data not available.

Vapor Pressure: Data not available.

Vapor Density: Data not available.

Relative Density: 1.05

Solubility: Miscible

Partition Coefficient: Data not available.

Auto-Ignition Temperature: Data not available.

Decomposition Temperature: Data not available.

Viscosity: Data not available.

Explosive Properties: Data not available.

Oxidizing Properties: 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 container. 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 applicable.

Acute Toxicity - Dermal Exposure:

Not applicable.

Acute Toxicity - Inhalation Exposure:

Not applicable.

Acute Toxicity - Other Information:

LDLo, Oral, Human: 430 mg/kg (Nitric Acid), details of toxic effects not reported other than lethal dose value. LD50, Oral, Rat: 763 mg/kg (Arsenic), behavioral and gastrointestinal effects noted. Arsenic is investigated as a tumorigen. LD50, Oral, Rat: (Barium Nitrate) 355 mg/kg, (Cadmium) 2330 mg/kg details of toxic effects not reported other than lethal dose value.

Skin Corrosion and Irritation:

Causes severe skin burns and eye damage. Do not breathe fumes, mist, vapors, or spray. Wash arms, hands and face thoroughly after handling. Wear protective gloves and eye protection. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician. Specific treatment (Wash areas of contact with water immediately). IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

Serious Eye Damage and Irritation:

Causes serious eye damage. Wear protective gloves and eye protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.

Respiratory Sensitization:

Not applicable.

Skin Sensitization:

May cause an allergic skin reaction. Avoid breathing fumes, mist, vapors, or spray. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves and eye protection. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical attention. Specific treatment (Wash areas of contact with water immediately). Wash contaminated clothing before reuse. Dispose of contents in accordance with local, state, federal and international regulations.

Germ Cell Mutagenicity:

Not applicable.

Carcinogenicity:

May cause cancer. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves and eye protection. IF exposed or concerned: Get medical attention. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

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Reproductive Toxicity:

May damage fertility or the unborn child. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves and eye protection. IF exposed or concerned: Get medical attention. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

Specific Target Organ Toxicity from Single Exposure:

Not applicable.

Specific Target Organ Toxicity from Repeated Exposure:

Not applicable.

Aspiration Hazard:

Not applicable.

Additional Toxicology Information:

Data not available.

SECTION 12: Ecological Information

12.1. Ecotoxicity

Harmful to aquatic life with long lasting effects. Avoid release to the environment. Dispose of contents in accordance with local, state, federal and international regulations.

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.

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SECTION 14: Transportation Information

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

Sizes: 500 mL

UN Number: UN3264

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

Hazard Class: 8

Packing Group: |||

Hazard Label(s):



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

Sizes: 500 mL

UN Number: UN3264

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

Hazard Class: 8

Packing Group: |||

Hazard Label(s):



14.3 Transportation of Dangerous Goods (TDG, Canada)

Sizes: 500 mL

UN Number: UN3264

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

Hazard Class: 8

Packing Group: |||

Hazard Label(s):



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SECTION 15: Regulatory Information

15.1. Occupational Safety and Health Administration (OSHA) Hazards

Lead (CAS # 7439-92-1): "30 μg/m3 Action Level (See 29 CFR 1910.1025); 50 μg/m3 TWA (See 29 CFR 1910.1025)" As Lead [7439-92-1] Lead (CAS # 7439-92-1): "30 μg/m3 Action Level (See 29 CFR 1910.1025, as Pb); 50 μg/m3 TWA (See 29 CFR 1910.1025, as Pb)" As Lead, inorgan compounds [RR-00538-9]

Lead (CAS # 7439-92-1): 30 μg/m3 Action Level (See 29 CFR 1910.1025); 50 μg/m3 TWA (See 29 CFR 1910.1025)

Arsenic (CAS # 7440-38-2): "10 μ g/m3 TWA (See 29 CFR 1910.1018, except Arsine, as As); 5 μ g/m3 Action Level (See 29 CFR 1910.1018, except Arsine, as As)" As Inorganic arsenic compounds [RR-00065-7]

Beryllium (CAS # 7440-41-7): "0.2 μ g/m3 TWA (See 29 CFR 1910.1024); 0.1 μ g/m3 Action Level (See 29 CFR 1910.1024); 2.0 μ g/m3 STEL (See 29 CFR 1910.1024, 15 min)" As Beryllium [7440-41-7]

Beryllium (CAS # 7440-41-7): 0.2 μg/m3 TWA (See 29 CFR 1910.1024); 0.1 μg/m3 Action Level (See 29 CFR 1910.1024); 2.0 μg/m3 STEL (See 29 CFR 1910.1024, 15 min)

Cadmium (CAS # 7440-43-9): "5 μg/m3 TWA (See 29 CFR 1910.1027, as Cd); 2.5 μg/m3 Action Level (as Cd)" As Cadmium compounds [RR-00559-4]

Cadmium (CAS # 7440-43-9): 5 μg/m3 TWA (See 29 CFR 1910.1027); 2.5 μg/m3 Action Level

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

Hydrofluoric Acid (CAS # 7664-39-3): "100 lb EPCRA RQ" As Hydrogen fluoride [7664-39-3]

Hydrofluoric Acid (CAS # 7664-39-3): "100 lb TPQ" As Hydrogen fluoride [7664-39-3]

Hydrofluoric Acid (CAS # 7664-39-3): 100 lb EPCRA RQ

Hydrofluoric Acid (CAS # 7664-39-3): 100 lb TPQ

Nitric Acid (CAS # 7697-37-2): "1000 lb EPCRA RQ" As Nitric acid [7697-37-2]

Nitric Acid (CAS # 7697-37-2): "1000 lb TPQ" As Nitric acid [7697-37-2]

Nitric Acid (CAS # 7697-37-2): 1000 lb EPCRA RQ

Nitric Acid (CAS # 7697-37-2): 1000 lb TPQ

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

Lead (CAS # 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 met released is >100 μ m); 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 μ m)" As Lead [7439-92-1]

Lead (CAS # 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 meta released is $>100 \mu m$); 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 $>100 \mu m$)

Thallium (CAS # 7440-28-0): "1000 lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the sol metal released is >100 µm); 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)" As Thallium [7440-28-0]

Thallium (CAS # 7440-28-0): 1000 lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the soli metal released is >100 µm); 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)

Arsenic (CAS # 7440-38-2): "1 lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid me released is >100 μ m); 0.454 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid met released is >100 μ m)" As Arsenic [7440-38-2]

Arsenic (CAS # 7440-38-2): 1 lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid me released is $>100 \mu m$); 0.454 kg final RQ (no reporting of releases of this hazardous substance is required if the

15.4. Superfund Amendments and Reauthorization Act (SARA) 313 Toxic Release Inventory (TRI)

Barium Nitrate (CAS # 10022-31-8): "1.0 % de minimis concentration (includes any unique chemical substance that contains Barium as part of that chemical's infrastructure except for Barium sulfate CAS 7727-43-7, listed under Chemical Category N040)" As Barium compounds [RR-00555-0] Barium Nitrate (CAS # 10022-31-8): "1.0 % de minimis concentration (includes any unique chemical substance that contains Barium as part of that chemical's infrastructure except for Barium sulfate CAS 7727-43-7, listed under Chemical Category N040)" As Barium compounds [RR-00555-0]; "1.0 % de minimis concentration (reportable only when in aqueous solution, listed under Chemical Category N511)" As Nitrate compounds, water dissociable [RR-03804-0]

Barium Nitrate (CAS # 10022-31-8): 1.0 % de minimis concentration (includes any unique chemical substance that contains Barium as part of that chemical's infrastructure except for Barium sulfate CAS 7727-43-7, listed under Chemical Category N040)

Barium Nitrate (CAS # 10022-31-8): 1.0 % de minimis concentration (reportable only when in aqueous solution, listed under Chemical Category N511) Lead (CAS # 7439-92-1): "100 lb RT (this lower threshold does not apply to lead when it is contained in stainless steel, brass or bronze alloy)" As Lead [7439-92-1]

Lead (CAS # 7439-92-1): "100 lb RT" As Lead compounds [RR-00630-4]

Lead (CAS # 7439-92-1): "not eligible for the de minimis exemption" As Lead [7439-92-1]

Lead (CAS # 7439-92-1): "not eligible for the de minimis exemption, listed under Chemical Category N420" As Inorganic lead compounds [RR-00538-105] "not eligible for the de minimis exemption" As Lead compounds [RR-00630-4]

Lead (CAS # 7439-92-1): 100 lb RT (this lower threshold does not apply to lead when it is contained in stainless steel, brass or bronze alloy)

Lead (CAS # 7439-92-1): not eligible for the de minimis exemption

Thallium (CAS # 7440-28-0): "1.0 % de minimis concentration (includes any unique chemical substance that contains Thallium

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15.5. Massachusetts Right-to-Know Substance List

Barium Nitrate (CAS # 10022-31-8): "Present" As Barium nitrate [10022-31-8]

Barium Nitrate (CAS # 10022-31-8): Present

Lead (CAS # 7439-92-1): "Teratogen" As Lead [7439-92-1]

Lead (CAS # 7439-92-1): Teratogen

Thallium (CAS # 7440-28-0): "Present" As Thallium [7440-28-0]

Thallium (CAS # 7440-28-0): Present

Arsenic (CAS # 7440-38-2): "Carcinogen; Extraordinarily hazardous" As Arsenic [7440-38-2]

Arsenic (CAS # 7440-38-2): Carcinogen; Extraordinarily hazardous

Beryllium (CAS # 7440-41-7): "Carcinogen; Extraordinarily hazardous" As Beryllium [7440-41-7]

Beryllium (CAS # 7440-41-7): Carcinogen; Extraordinarily hazardous Cadmium (CAS # 7440-43-9): Carcinogen; Extraordinarily hazardous

Hydrofluoric Acid (CAS # 7664-39-3): "Extraordinarily hazardous" As Hydrofluoric acid [7664-39-3]

Hydrofluoric Acid (CAS # 7664-39-3): Extraordinarily hazardous

Nitric Acid (CAS # 7697-37-2): "Extraordinarily hazardous" As Nitric acid [7697-37-2]

Nitric Acid (CAS # 7697-37-2): Extraordinarily hazardous

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15.6. Pennsylvania Right-to-Know Hazardous Substances

Barium Nitrate (CAS # 10022-31-8): "Environmental hazard" As Barium compounds [RR-00555-0]

Barium Nitrate (CAS # 10022-31-8): "Environmental hazard" As Nitric acid, barium salt [10022-31-8]

Barium Nitrate (CAS # 10022-31-8): "Present" As Barium compounds [RR-00555-0]

Barium Nitrate (CAS # 10022-31-8): "Present" As Nitric acid, barium salt [10022-31-8]

Barium Nitrate (CAS # 10022-31-8): Environmental hazard

Barium Nitrate (CAS # 10022-31-8): Present

Lead (CAS # 7439-92-1): "Environmental hazard" As Lead [7439-92-1]

Lead (CAS # 7439-92-1): "Environmental hazard" As Lead compounds [RR-00630-4]

Lead (CAS # 7439-92-1): "Present" As Lead [7439-92-1]

Lead (CAS # 7439-92-1): "Present" As Lead compounds [RR-00630-4]

Lead (CAS # 7439-92-1): Environmental hazard

Lead (CAS # 7439-92-1): Present

Thallium (CAS # 7440-28-0): "Environmental hazard" As Thallium [7440-28-0]

Thallium (CAS # 7440-28-0): "Environmental hazard" As Thallium compounds [RR-00575-4]

Thallium (CAS # 7440-28-0): "Present" As Thallium [7440-28-0]

Thallium (CAS # 7440-28-0): "Present" As Thallium compounds [RR-00575-4]

Thallium (CAS # 7440-28-0): Environmental hazard

Thallium (CAS # 7440-28-0): Present

Arsenic (CAS # 7440-38-2): "Environmental hazard (including inorganic); Special hazardous substance" As Arsenic [7440-38-2]

Arsenic (CAS # 7440-38-2): "Environmental hazard" As Arsenic compounds [RR-00625-7]

Arsenic (CAS # 7440-38-2): "Present (including inorganic)" As Arsenic [7440-38-2]

Arsenic (CAS # 7440-38-2): "Present" As Arsenic [7440-38-2]

Arsenic (CAS # 7440-38-2): "Present" As Arsenic compounds [RR-00625-7]

Arsenic (CAS # 7440-38-2): Environmental hazard (including inorganic); Special hazardous substance

Arsenic (CAS # 7440-38-2): Present

Arsenic (CAS # 7440-38-2): Present (including inorganic)

Beryllium (CAS # 7440-41-7): "Environmental hazard (dust; metal); Special hazardous substance" As Beryllium [7440-41-7]

Beryllium (CAS # 7440-41-7): "Environmental hazard" As Beryllium compounds [RR-00557-2]

Beryl

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

Barium Nitrate (CAS # 10022-31-8): "sn 0186" As Barium nitrate [10022-31-8]

Barium Nitrate (CAS # 10022-31-8): "SN 2146 500 lb TPQ (except Barium sulfate CAS number 7727-43-7, Category Code N040. Includes any unique chemical substance that contains the named metal as part of that chemical structure)" As Barium compounds [RR-00555-0]

Barium Nitrate (CAS # 10022-31-8): "SN 2146 500 lb TPQ (except Barium sulfate CAS number 7727-43-7, Category Code N040. Includes any unique chemical substance that contains the named metal as part of that chemical structure)" As Barium compounds [RR-00555-0];

"SN 3722 500 lb TPQ (water dissociable, Category Code N511)" As Nitrate compounds [RR-01770-9]

Barium Nitrate (CAS # 10022-31-8): "sn 2146" As Barium compounds [RR-00555-0]

Barium Nitrate (CAS # 10022-31-8): "SN 3722 500 lb TPQ (water dissociable, Category Code N511)" As Nitrate compounds [RR-01770-9]

Barium Nitrate (CAS # 10022-31-8): "sn 3722" As Nitrate compounds [RR-01770-9]

Barium Nitrate (CAS # 10022-31-8): sn 0186

Barium Nitrate (CAS # 10022-31-8): sn 2146

Barium Nitrate (CAS # 10022-31-8): SN 2146 500 lb TPQ (except Barium sulfate CAS number 7727-43-7, Category Code N040. Includes any unique chemical substance that contains the named metal as part of that chemical structure)

Barium Nitrate (CAS # 10022-31-8): sn 3722

Barium Nitrate (CAS # 10022-31-8): SN 3722 500 lb TPQ (water dissociable, Category Code N511)

Lead (CAS # 7439-92-1): "carcinogen" As Lead compounds [RR-00630-4]

Lead (CAS # 7439-92-1): "carcinogen; teratogen" As Lead [7439-92-1]

Lead (CAS # 7439-92-1): "SN 1096 500 lb TPQ" As Lead [7439-92-1]

Lead (CAS # 7439-92-1): "sn 1096" As Lead [7439-92-1]

Lead (CAS # 7439-92-1): "SN 2266 500 lb TPQ (Category Code N420. Includes any unique chemical substance that contains the named metal as par of that chemical structure)" As Lead compounds [RR-00630-4]

Lead (CAS # 7439-92-1): "sn 2266" As Lead compounds [RR-00630-4]

Lead (CAS # 7439-92-1): carcinogen; teratogen

Lead (C

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15.8. California Proposition 65

Lead (CAS # 7439-92-1): "15 μg/day NSRL (oral)" As Lead [7439-92-1]

Lead (CAS # 7439-92-1): "carcinogen, 10/1/1992" As Lead [7439-92-1]

Lead (CAS # 7439-92-1): "carcinogen, 10/1/1992" As Lead compounds [RR-00630-4]

Lead (CAS # 7439-92-1): "developmental toxicity, 2/27/1987" As Lead [7439-92-1]

Lead (CAS # 7439-92-1): "female reproductive toxicity 2/27/87" As Lead [7439-92-1]

Lead (CAS # 7439-92-1): "male reproductive toxicity, 2/27/87" As Lead [7439-92-1]

Lead (CAS # 7439-92-1): 15 µg/day NSRL (oral)

Lead (CAS # 7439-92-1): carcinogen, 10/1/1992

Lead (CAS # 7439-92-1): developmental toxicity, 2/27/1987

Lead (CAS # 7439-92-1): female reproductive toxicity 2/27/87

Lead (CAS # 7439-92-1): male reproductive toxicity, 2/27/87

Arsenic (CAS # 7440-38-2): "0.06 µg/day NSRL (inhalation); 10 µg/day NSRL (except inhalation)" As Arsenic [7440-38-2]

Arsenic (CAS # 7440-38-2): "0.06 μg/day NSRL (inhalation, listed under Arsenic); 10 μg/day NSRL (except inhalation, listed under Arsenic)" As Arseni

inorganic compounds [RR-00065-7]

Arsenic (CAS # 7440-38-2): "carcinogen, 2/27/1987" As Arsenic, inorganic compounds [RR-00065-7]

Arsenic (CAS # 7440-38-2): 0.06 μg/day NSRL (inhalation); 10 μg/day NSRL (except inhalation)

Beryllium (CAS # 7440-41-7): "0.1 µg/day NSRL" As Beryllium [7440-41-7]

Beryllium (CAS # 7440-41-7): "carcinogen, 10/1/1987" As Beryllium [7440-41-7]

Beryllium (CAS # 7440-41-7): "carcinogen, 10/1/1987" As Beryllium compounds [RR-00557-2]

Beryllium (CAS # 7440-41-7): 0.1 μg/day NSRL

Beryllium (CAS # 7440-41-7): carcinogen, 10/1/1987

Cadmium (CAS # 7440-43-9): "carcinogen, 10/1/1987" As Cadmium compounds [RR-00559-4]

Cadmium (CAS # 7440-43-9): 0.05 µg/day NSRL (inhalation)

Cadmium (CAS # 7440-43-9): carcinogen, 10/1/1987

Cadmium (CAS # 7440-43-9): developmental toxicity, 5/1/1997

Cadmium (CAS # 7440-43-9): male reproductive toxicity, 5/1/97

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

Barium Nitrate (CAS # 10022-31-8): "Present" As Barium nitrate [10022-31-8] (DSL)

Barium Nitrate (CAS # 10022-31-8): Present (DSL)

Lead (CAS # 7439-92-1): "Present" As Lead [7439-92-1] (DSL)

Lead (CAS # 7439-92-1): Present (DSL)

Thallium (CAS # 7440-28-0): "Present" As Thallium [7440-28-0] (DSL)

Thallium (CAS # 7440-28-0): Present (DSL)

Arsenic (CAS # 7440-38-2): "Present" As Arsenic [7440-38-2] (DSL)

Arsenic (CAS # 7440-38-2): Present (DSL)

Beryllium (CAS # 7440-41-7): "Present" As Beryllium [7440-41-7] (DSL)

Beryllium (CAS # 7440-41-7): Present (DSL)

Cadmium (CAS # 7440-43-9): Present (DSL)

Hydrofluoric Acid (CAS # 7664-39-3): "Present" As Hydrogen fluoride [7664-39-3] (DSL)

Hydrofluoric Acid (CAS # 7664-39-3): Present (DSL)

Nitric Acid (CAS # 7697-37-2): "Present" As Nitric acid [7697-37-2] (DSL)

Nitric Acid (CAS # 7697-37-2): Present (DSL)

Water (CAS # 7732-18-5): "Present" As Water [7732-18-5] (DSL)

Water (CAS # 7732-18-5): Present (DSL)

Chromium Nitrate Nonahydrate (CAS # 7789-02-8): "Present" As Chromium nitrate [13548-38-4] (DSL)

Chromium Nitrate Nonahydrate (CAS # 7789-02-8): Present (DSL)

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

All components of this solution are listed as active on the TSCA Inventory or are mixtures (hydrates) of active items listed on the TSCA Inventory.

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Barium Nitrate (CAS # 10022-31-8): "Present (ACTIVE)" As Nitric acid, barium salt (2:1) [10022-31-8]

Barium Nitrate (CAS # 10022-31-8): Present (ACTIVE)

Lead (CAS # 7439-92-1): "Present (ACTIVE)" As Lead [7439-92-1]

Lead (CAS # 7439-92-1): Present (ACTIVE)

Thallium (CAS # 7440-28-0): "Present (ACTIVE)" As Thallium [7440-28-0]

Thallium (CAS # 7440-28-0): Present (ACTIVE)

Arsenic (CAS # 7440-38-2): "Present (ACTIVE)" As Arsenic [7440-38-2]

Arsenic (CAS # 7440-38-2): Present (ACTIVE)

Beryllium (CAS # 7440-41-7): "Present (ACTIVE)" As Beryllium [7440-41-7]

Beryllium (CAS # 7440-41-7): Present (ACTIVE) Cadmium (CAS # 7440-43-9): Present (ACTIVE)

Hydrofluoric Acid (CAS # 7664-39-3): "Present (ACTIVE)" As Hydrofluoric acid [7664-39-3]

Hydrofluoric Acid (CAS # 7664-39-3): Present (ACTIVE)

Nitric Acid (CAS # 7697-37-2): "Present (ACTIVE)" As Nitric acid [7697-37-2]

Nitric Acid (CAS # 7697-37-2): Present (ACTIVE)

Water (CAS # 7732-18-5): "Present (ACTIVE)" As Water [7732-18-5]

Water (CAS # 7732-18-5): Present (ACTIVE)

Chromium Nitrate Nonahydrate (CAS # 7789-02-8): "Present (ACTIVE)" As Nitric acid, chromium(3+) salt (3:1) [13548-38-4]

Chromium Nitrate Nonahydrate (CAS # 7789-02-8): Present (ACTIVE)

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

Barium Nitrate (CAS # 10022-31-8): "233-020-5" As Barium nitrate [10022-31-8]

Barium Nitrate (CAS # 10022-31-8): 233-020-5

Lead (CAS # 7439-92-1): "231-100-4" As Lead [7439-92-1]

Lead (CAS # 7439-92-1): 231-100-4

Thallium (CAS # 7440-28-0): "231-138-1" As Thallium [7440-28-0]

Thallium (CAS # 7440-28-0): 231-138-1

Arsenic (CAS # 7440-38-2): "231-148-6" As Arsenic [7440-38-2]

Arsenic (CAS # 7440-38-2): 231-148-6

Beryllium (CAS # 7440-41-7): "231-150-7" As Beryllium [7440-41-7]

Beryllium (CAS # 7440-41-7): 231-150-7 Cadmium (CAS # 7440-43-9): 231-152-8

Hydrofluoric Acid (CAS # 7664-39-3): "231-634-8" As Hydrogen fluoride [7664-39-3]

Hydrofluoric Acid (CAS # 7664-39-3): 231-634-8

Nitric Acid (CAS # 7697-37-2): "231-714-2" As Nitric acid [7697-37-2]

Nitric Acid (CAS # 7697-37-2): 231-714-2

Water (CAS # 7732-18-5): "231-791-2" As Water [7732-18-5]

Water (CAS # 7732-18-5): 231-791-2

Chromium Nitrate Nonahydrate (CAS # 7789-02-8): "236-921-1" As Chromium trinitrate [13548-38-4]

Chromium Nitrate Nonahydrate (CAS # 7789-02-8): 236-921-1

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SECTION 16: Other Information

16.1. Full Text of Hazard Statements and Precautionary Statements

May be corrosive to metals. Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause cancer. May damage fertility or the unborn child. Harmful to aquatic life with long lasting effects.

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep only in original container. Do not breathe fumes, mist, vapors, or spray. Wash arms, hands and face thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves and eye protection.

IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN: Wash with plenty of soap and water. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical attention. Specific treatment (Wash areas of contact with water immediately). If skin irritation occurs: Get medical attention. Wash contaminated clothing before reuse. Absorb spillage to prevent material damage.

Store locked up. Store in corrosive resistant container with a resistant inner liner.

Dispose of contents in accordance with local, state, federal and international regulations.

16.2. Miscellaneous Hazard Classes

Canadian Carcinogenicity Hazard Class: Not Applicable.

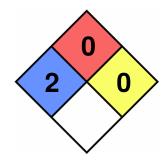
Physical Hazards Not Otherwise Classified (PHNOC): Not Applicable.

Health Hazards Not Otherwise Classified (HHNOC): Not Applicable.

Biohazardous Infectious Materials Hazard Class: Not Applicable.

16.3. National Fire Protection Association (NFPA) Rating

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



16.4. Document Revision

Last Revision Date: 2025-01-31

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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.

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