Classified according to WHMIS 2015

SECTION 1: Identification

1.1. Product Identifier

Trade Name or Designation: Lab Performance Check, Method 200.7

Product Number: RLPC1

Other Identifying Product Numbers: RLPC1-100, RLPC1-500

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:
Acute Toxicity - Inhalation	Category 2	H330	P260, P271, P285, P304+P340, P310, P320,
			P403+P233, P405, P501
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
Corrosive to Metals	Category 1	H290	P234, P390, P406
Hazardous to the Aquatic Environment (Acute)	Category 2	H401	P273, P501
Hazardous to the Aquatic Environment (Chronic)	Category 2	H411	P273, P391, 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.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H401	Toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

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Precautionary Statements:

Precautionary Number	Precautionary Statement
P234	Keep only in original container.
P260	Do not breathe fumes, mist, vapors, or spray.
P264	Wash arms, hands and face thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves and eye protection.
P285	In case of inadequate ventilation wear respiratory protection.
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.
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 physician.
P320	Specific treatment is urgent (Wash areas of contact with water.).
P321	Specific treatment (Wash areas of contact with water.).
P363	Wash contaminated clothing before reuse.
P390	Absorb spillage to prevent material damage.
P391	Collect spillage.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
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	94.94
Nitric Acid	HNO ₃	63.01 g/mol	7697-37-2	4.82
Ammonium Hexafluorosilicate (IV)	(NH ₄) ₂ SiF ₆	178.15 g/mol	16919-19-0	< 0.1
Ammonium Dihydrogen Phosphate	$NH_4H_2PO_4$	97.99 g/mol	7722-76-1	< 0.1
Aluminum Nitrate Nonahydrate	AI(NO ₃) ₃ ·9H ₂ O	375.13 g/mol	7784-27-2	< 0.1
Potassium Carbonate	K ₂ CO ₃	138.20 g/mol	584-08-7	< 0.1
Chromium Nitrate Nonahydrate	$Cr(NO_3)_3 \cdot 9H_2O$	238.01 g/mol	7789-02-8	< 0.1
Boric Acid	H ₃ BO ₃	61.83 g/mol	10043-35-3	< 0.1
Lithium Carbonate, 6Li2CO3	Li ₂ CO ₃	73.89 g/mol	554-13-2	< 0.1
Calcium Carbonate	CaCO₃	100.09 g/mol	471-34-1	< 0.1
Sodium Carbonate	Na ₂ CO ₃	105.98 g/mol	497-19-8	< 0.1
Ammonium Molybdate	$(NH_4)_2MoO_4$	196.03 g/mol	13106-76-8	< 0.1
Barium Nitrate	Ba(NO ₃) ₂	261.33 g/mol	10022-31-8	< 0.1
Strontium Carbonate	SrCO₃	147.62 g/mol	1633-05-2	< 0.1
Arsenic Trioxide	As_2O_3	197.84 g/mol	1327-53-3	< 0.1
Hydrofluoric Acid	HF	20.00 g/mol	7664-39-3	< 0.1
Antimony Trioxide	Sb_2O_3	291.51 g/mol	1309-64-4	< 0.1
Selenium	Se	78.95 g/mol	7782-49-2	< 0.1
Zinc	Zn	65.40 g/mol	7440-66-6	< 0.1
Vanadium	V	50.94 g/mol	7440-62-2	< 0.1
Copper	Cu	63.54 g/mol	7440-50-8	< 0.1
Cobalt	Со	58.93 g/mol	7440-48-4	< 0.1
Cadmium	Cd	112.41 g/mol	7440-43-9	< 0.1
Beryllium	Ве	9.01 g/mol	7440-41-7	< 0.1
Tin	Sn	118.71 g/mol	7440-31-5	< 0.1
Thallium	TI	204.38 g/mol	7440-28-0	< 0.1
Nickel	Ni	58.69 g/mol	7440-02-0	< 0.1
Mercury	Hg	200.59 g/mol	7439-97-6	< 0.1
Manganese	Mn	54.93 g/mol	7439-96-5	< 0.1
Magnesium	Mg	24.30 g/mol	7439-95-4	< 0.1
Lead	Pb	207.2 g/mol	7439-92-1	< 0.1

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Iron	Fe	55.84 g/mol	7439-89-6	< 0.1
Ammonium Hydroxide	NH₄OH	35.04 g/mol	1336-21-6	< 0.1
Silver	Ag	107.86 g/mol	7440-22-4	< 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. Causes serious eye damage. Fatal if inhaled. Contains low levels of known and suspected carcinogens. Corrosive Liquid. May be fatal if swallowed. 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. Potential symptoms of overexposure are irritation of the eyes, mucous membranes and skin, dental erosion, bronchitis, pneumonitis, delayed pulmonary edema. 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. Medical Attention or Special Treatment Needed

Immediately call a POISON CENTER or physician. Specific treatment is urgent (Wash areas of contact with water.). Specific treatment (Wash areas of contact with water.). 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. Immediately flush with plenty of water for at least 15 minutes. Remove any contaminated clothing. Wash with soap and water, then flush again with water. Call a physician if irritation develops. Dilute with water or milk. Do not induce vomiting. Call a physician if necessary.

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.

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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. In case of inadequate ventilation wear respiratory 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)
Boric Acid (10043-35-3)	TLV-TWA	USA	2 mg/m³ TWA (inhalable particulate matter, listed under Borate compounds, inorganic)	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Boric Acid (10043-35-3)	TLV-STEL	USA	6 mg/m³ STEL (inhalable particulate matter, listed under Borate compounds, inorganic)	ACGIH - Threshold Limit Values - Short Term Exposure Limits (TLV-STEL)
Boric Acid (10043-35-3)	TLV-TWA	USA	"2 mg/m³ TWA (inhalable particulate matter)" As Borate compounds, inorganic [RR-33876-1]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Boric Acid (10043-35-3)	TLV-STEL	USA	"6 mg/m³ STEL (inhalable particulate matter)" As Borate compounds, inorganic [RR-33876-1]	ACGIH - Threshold Limit Values - Short Term Exposure Limits (TLV-STEL)
Boric Acid (10043-35-3)	TLV-TWA	USA	2 mg/m³ TWA (inhalable particulate matter)	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Boric Acid (10043-35-3)	TLV-STEL	USA	6 mg/m³ STEL (inhalable particulate matter)	ACGIH - Threshold Limit Values - Short Term Exposure Limits (TLV-STEL)

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Antimony Trioxide (1309-64-4)	TWA	USA	"0.5 mg/m3 TWA (as Sb)"	U.S OSHA - Final PELs - Time
			As Antimony compounds	Weighted Averages (TWAs)
			[RR-00585-6]	
Antimony Trioxide (1309-64-4)	TLV-TWA	USA	0.02 mg/m ³ TWA (inhalable	ACGIH - Threshold Limit Values - Time
			particulate matter)	Weighted Averages (TLV-TWA)
Antimony Trioxide (1309-64-4)	TWA	USA	"0.5 mg/m³ TWA (as Sb)"	U.S OSHA - Final PELs - Time
			As Antimony compounds	Weighted Averages (TWAs)
			[RR-00585-6]	
Antimony Trioxide (1309-64-4)	TLV-TWA	USA	"0.5 mg/m³ TWA (as Sb)"	ACGIH - Threshold Limit Values - Time
			As Antimony compounds	Weighted Averages (TLV-TWA)
			[RR-00585-6]	
Antimony Trioxide (1309-64-4)	TLV-TWA	USA	"0.5 mg/m³ TWA (as Sb)"	ACGIH - Threshold Limit Values - Time
			As Antimony compounds	Weighted Averages (TLV-TWA)
			[RR-00585-6]	
Antimony Trioxide (1309-64-4)	TWA	USA	"0.5 mg/m³ TWA (as Sb)"	U.S OSHA - Final PELs - Time
			As Antimony compounds	Weighted Averages (TWAs)
			[RR-00585-6]	
Antimony Trioxide (1309-64-4)	TWA	USA	0.5 mg/m³ TWA (as Sb)	U.S OSHA - Final PELs - Time
				Weighted Averages (TWAs)
Antimony Trioxide (1309-64-4)	TLV-TWA	USA	0.5 mg/m³ TWA (as Sb)	ACGIH - Threshold Limit Values - Time
				Weighted Averages (TLV-TWA)
Antimony Trioxide (1309-64-4)	TWA	USA	"0.5 mg/m³ TWA (as Sb)"	U.S OSHA - Final PELs - Time
			As Antimony compounds	Weighted Averages (TWAs)
			[RR-00585-6]	
Antimony Trioxide (1309-64-4)	TLV-TWA	USA	"0.5 mg/m³ TWA (as Sb)"	ACGIH - Threshold Limit Values - Time
			As Antimony compounds	Weighted Averages (TLV-TWA)
			[RR-00585-6]	
Ammonium Molybdate (13106-76-8)	TLV-TWA	USA	"0.5 mg/m³ TWA (respirable	ACGIH - Threshold Limit Values - Time
			particulate matter, as Mo)"	Weighted Averages (TLV-TWA)
			As Molybdenum soluble	
			compounds [RR-00036-2]	
Ammonium Molybdate (13106-76-8)	TWA	USA	"5 mg/m³ TWA (as Mo)" As	U.S OSHA - Final PELs - Time
			Molybdenum, soluble	Weighted Averages (TWAs)
			compounds [RR-00036-2]	
Ammonium Molybdate (13106-76-8)	TLV-TWA	USA	0.5 mg/m³ TWA (respirable	ACGIH - Threshold Limit Values - Time
			particulate matter, as Mo)	Weighted Averages (TLV-TWA)
Ammonium Molybdate (13106-76-8)	TWA	USA	5 mg/m³ TWA (as Mo)	U.S OSHA - Final PELs - Time
				Weighted Averages (TWAs)

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Arsenic Trioxide (1327-53-3)	PEL	USA	"10 μg/m³ TWA (See 29 CFR 1910.1018; except	U.S OSHA - Specifically Regulated Chemicals with PELs
			Arsine, as As); 5 μg/m ³	
			Action Level (as As)" As	
			Inorganic arsenic	
			compounds [RR-00065-7]	
Arsenic Trioxide (1327-53-3)	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 Trioxide (1327-53-3)	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 Trioxide (1327-53-3)	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/m³	
			Action Level (as As)	
Arsenic Trioxide (1327-53-3)	TWA	USA	10 μg/m³ TWA (as As)	U.S OSHA - Final PELs - Time
				Weighted Averages (TWAs)
Arsenic Trioxide (1327-53-3)	TLV-TWA	USA	0.01 mg/m ³ TWA (as As)	ACGIH - Threshold Limit Values - Time
				Weighted Averages (TLV-TWA)
Arsenic Trioxide (1327-53-3)	TWA	USA	"0.5 mg/m3 TWA (as As)"	U.S OSHA - Final PELs - Time
			As Arsenic, organic	Weighted Averages (TWAs)
			compounds [RR-00035-1]	
Arsenic Trioxide (1327-53-3)	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 Trioxide (1327-53-3)	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 Trioxide (1327-53-3)	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 Trioxide (1327-53-3)	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]	

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Arsenic Trioxide (1327-53-3)	TLV-TWA	USA	"0.01 mg/m³ TWA (as As)" As Arsenic inorganic	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
			compounds [RR-00065-7]	
Arsenic Trioxide (1327-53-3)	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 Trioxide (1327-53-3)	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 Trioxide (1327-53-3)	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 Trioxide (1327-53-3)	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]	
Ammonium Hydroxide (1336-21-6)	TLV-TWA	USA	25 ppm TWA	ACGIH - Threshold Limit Values - Time
				Weighted Averages (TLV-TWA)
Ammonium Hydroxide (1336-21-6)	TLV-STEL	USA	35 ppm STEL	ACGIH - Threshold Limit Values -
				Short Term Exposure Limits
				(TLV-STEL)
Ammonium Hydroxide (1336-21-6)	TWA	USA	50 ppm TWA; 35 mg/m ³	U.S OSHA - Final PELs - Time
			TWA	Weighted Averages (TWAs)
Ammonium Hexafluorosilicate (IV) (1	69TLV-TWA	USA	"2.5 mg/m³ TWA (as F)" As	ACGIH - Threshold Limit Values - Time
			Fluorides [RR-02792-9]	Weighted Averages (TLV-TWA)
Ammonium Hexafluorosilicate (IV) (1	69 TWA	USA	"2.5 mg/m³ TWA (as F)" As	U.S OSHA - Final PELs - Time
			Fluorides [RR-02792-9]	Weighted Averages (TWAs)
Ammonium Hexafluorosilicate (IV) (1	69 TWA	USA	"2.5 mg/m³ TWA (as F)" As	U.S OSHA - Final PELs - Time
			Fluorides [RR-02792-9]	Weighted Averages (TWAs)
Ammonium Hexafluorosilicate (IV) (1	69 TLV-TWA	USA	"2.5 mg/m 3 TWA (as F)" As	ACGIH - Threshold Limit Values - Time
			Fluorides [RR-02792-9]	Weighted Averages (TLV-TWA)
Ammonium Hexafluorosilicate (IV) (1	69 TWA	USA	"2.5 mg/m³ TWA (as F)" As	U.S OSHA - Final PELs - Time
			Fluorides [RR-02792-9]	Weighted Averages (TWAs)
Ammonium Hexafluorosilicate (IV) (1	69 TLV-TWA	USA	"2.5 mg/m³ TWA (as F)" As	ACGIH - Threshold Limit Values - Time
			Fluorides [RR-02792-9]	Weighted Averages (TLV-TWA)
Ammonium Hexafluorosilicate (IV) (1	69 TLV-TWA	USA	"2.5 mg/m³ TWA (as F)" As	ACGIH - Threshold Limit Values - Time
			Fluorides [RR-02792-9]	Weighted Averages (TLV-TWA)
Ammonium Hexafluorosilicate (IV) (1	69 TWA	USA	"2.5 mg/m³ TWA (as F)" As	U.S OSHA - Final PELs - Time
			Fluorides [RR-02792-9]	Weighted Averages (TWAs)

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Ammonium Hexafluorosilicate (IV) (16£ TLV-TWA		USA	2.5 mg/m³ TWA (as F)	ACGIH - Threshold Limit Values - Time
				Weighted Averages (TLV-TWA)
Ammonium Hexafluorosilicate (I	IV) (169TWA	USA	2.5 mg/m ³ TWA (as F)	U.S OSHA - Final PELs - Time
				Weighted Averages (TWAs)
Ammonium Hexafluorosilicate (I	IV) (169 TWA	USA	"2.5 mg/m³ TWA (as F)" As	U.S OSHA - Final PELs - Time
			Fluorides [RR-02792-9]	Weighted Averages (TWAs)
Ammonium Hexafluorosilicate (I	IV) (169 TLV-TWA	USA	"2.5 mg/m³ TWA (as F)" As	ACGIH - Threshold Limit Values - Time
			Fluorides [RR-02792-9]	Weighted Averages (TLV-TWA)
Lead (7439-92-1)	PEL	USA	30 µg/m³ Action Level (See	U.S OSHA - Specifically Regulated
			29 CFR 1910.1025); 50	Chemicals with PELs
			μg/m³ TWA	
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)
Manganese (7439-96-5)	TLV-TWA	USA	0.02 mg/m³ TWA	ACGIH - Threshold Limit Values - Time
. ,			(respirable particulate	Weighted Averages (TLV-TWA)
			matter); 0.1 mg/m ³ TWA	
			(inhalable particulate	
			matter)	
Manganese (7439-96-5)	PEL-Ceiling	USA	5 mg/m³ Ceiling (fume)	U.S OSHA - Final PELs - Ceiling
	_			Limits
Manganese (7439-96-5)	PEL-Ceiling	USA	"5 mg/m3 Ceiling (as Mn)"	U.S OSHA - Final PELs - Ceiling
	_		As Manganese compounds	Limits
			[RR-00602-0]	
Manganese (7439-96-5)	TLV-TWA	USA	0.02 mg/m³ TWA	ACGIH - Threshold Limit Values - Time
			(respirable particulate	Weighted Averages (TLV-TWA)
			matter, as Mn); 0.1 mg/m ³	
			TWA (inhalable particulate	
			matter, as Mn)	
Mercury (7439-97-6)	PEL-Ceiling	USA	0.1 mg/m³ Ceiling	U.S OSHA - Final PELs - Ceiling
	· ·			Limits
Mercury (7439-97-6)	TLV-TWA	USA	0.025 mg/m ³ TWA	ACGIH - Threshold Limit Values - Time
,			-	Weighted Averages (TLV-TWA)
Mercury (7439-97-6)	TLV-TWA	USA	0.025 mg/m ³ TWA (as Hg)	ACGIH - Threshold Limit Values - Time
,			5 . 0/	Weighted Averages (TLV-TWA)
Nickel (7440-02-0)	TLV-TWA	USA	1.5 mg/m³ TWA (inhalable	ACGIH - Threshold Limit Values - Time
, ,			particulate matter)	Weighted Averages (TLV-TWA)
Nickel (7440-02-0)	TWA	USA	1 mg/m³ TWA	U.S OSHA - Final PELs - Time
,			Š	Weighted Averages (TWAs)

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Silver (7440-22-4)	TLV-TWA	USA	0.1 mg/m³ TWA (dust and	ACGIH - Threshold Limit Values - Time
011 (= 4.40.00.4)	- 1444	1104	fume)	Weighted Averages (TLV-TWA)
Silver (7440-22-4)	TWA	USA	0.01 mg/m³ TWA	U.S OSHA - Final PELs - Time
- : (Weighted Averages (TWAs)
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/m ³ TWA	ACGIH - Threshold Limit Values - Time
			(inhalable particulate	Weighted Averages (TLV-TWA)
			matter, as TI)" As Thallium	
			compounds [RR-00575-4]	
Tin (7440-31-5)	TWA	USA	"2 mg/m3 TWA (except	U.S OSHA - Final PELs - Time
			oxides, as Sn)" As Tin,	Weighted Averages (TWAs)
			inorganic compounds	
			[RR-00043-1]	
Tin (7440-31-5)	TLV-TWA	USA	2 mg/m³ TWA (inhalable	ACGIH - Threshold Limit Values - Time
			particulate matter)	Weighted Averages (TLV-TWA)
Tin (7440-31-5)	TLV-TWA	USA	2 mg/m ³ TWA (excluding tin	ACGIH - Threshold Limit Values - Time
			hydride and indium tin	Weighted Averages (TLV-TWA)
			oxide, inhalable particulate	
			matter, as Sn)	
Tin (7440-31-5)	TWA	USA	2 mg/m³ TWA (except	U.S OSHA - Final PELs - Time
			oxides, as Sn)	Weighted Averages (TWAs)
Tin (7440-31-5)	TWA	USA	"2 mg/m³ TWA (except	U.S OSHA - Final PELs - Time
			oxides, as Sn)" As Tin,	Weighted Averages (TWAs)
			inorganic compounds	
			[RR-00043-1]	
Tin (7440-31-5)	TLV-TWA	USA	"2 mg/m³ TWA (excluding	ACGIH - Threshold Limit Values - Time
			tin hydride and indium tin	Weighted Averages (TLV-TWA)
			oxide, inhalable particulate	
			matter, as Sn)" As Tin	
			inorganic compounds	
			[RR-00043-1]	
Beryllium (7440-41-7)	PEL	USA	0.2 μg/m³ TWA (See 29	U.S OSHA - Specifically Regulated
			CFR 1910.1024); 0.1 µg/m ³	Chemicals with PELs
			Action Level; 2.0 μg/m ³	
			STEL (15 min)	
Beryllium (7440-41-7)	PEL-STEL	USA	2 μg/m³ STEL (see 29 CFR	U.S OSHA - Final PELs - Short Term
			1910.1024)	Exposure Limits
Beryllium (7440-41-7)	TLV-TWA	USA	0.00005 mg/m ³ TWA	ACGIH - Threshold Limit Values - Time
, ,			(inhalable particulate	Weighted Averages (TLV-TWA)
			matter)	

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Beryllium (7440-41-7)	PEL-Ceiling	USA	2 μg/m³ Ceiling	U.S OSHA - Final PELs - Ceiling
Beryllium (7440-41-7)	TWA	USA	0.2 μg/m³ TWA	Limits U.S OSHA - Final PELs - Time Weighted Averages (TWAs)
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)
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; 0.002 mg/m³ TWA (respirable particulate matter)	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
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, 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 - Final PELs - Ceiling Limits
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 (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)

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Cadmium (7440-43-9)	PEL	USA	"5 μg/m³ TWA (See 29 CFR	U.S OSHA - Specifically Regulated
			1910.1027, as Cd); 2.5	Chemicals with PELs
			μg/m³ Action Level (as Cd)" As Cadmium compounds	
			[RR-00559-4]	
Cobalt (7440-48-4)	TWA	USA	0.1 mg/m³ TWA (dust and	U.S OSHA - Final PELs - Time
	1447	OOA	fume)	Weighted Averages (TWAs)
Cobalt (7440-48-4)	TLV-TWA	USA	0.02 mg/m³ TWA (inhalable	ACGIH - Threshold Limit Values - Time
	ILV IVVA	OOA	particulate matter)	Weighted Averages (TLV-TWA)
Cobalt (7440-48-4)	TLV-TWA	USA	0.02 mg/m³ TWA (inhalable	ACGIH - Threshold Limit Values - Time
	127 1777	00/1	particulate matter, as Co)	Weighted Averages (TLV-TWA)
Copper (7440-50-8)	TWA	USA	0.1 mg/m³ TWA (fume); 1	U.S OSHA - Final PELs - Time
	1 ***	00/1	mg/m³ TWA (dust and mist)	Weighted Averages (TWAs)
Copper (7440-50-8)	TLV-TWA	USA	0.2 mg/m³ TWA (fume)	ACGIH - Threshold Limit Values - Time
		00/1	0.2 mg/m 1 vv/ (.a.mo/	Weighted Averages (TLV-TWA)
Copper (7440-50-8)	TLV-TWA	USA	"1 mg/m3 TWA (dust and	ACGIH - Threshold Limit Values - Time
		00/1	mist, as Cu)" As Copper	Weighted Averages (TLV-TWA)
			compounds [RR-00595-8]	Weighted / Weilages (121 11/1)
Copper (7440-50-8)	TLV-TWA	USA	"1 mg/m³ TWA (dust and	ACGIH - Threshold Limit Values - Time
			mist, as Cu)" As Copper	Weighted Averages (TLV-TWA)
			compounds [RR-00595-8]	·····g·······,
Vanadium (7440-62-2)	PEL-Ceiling	USA	0.5 mg/m³ Ceiling	U.S OSHA - Final PELs - Ceiling
	Ü		(respirable dust, as V2O5);	Limits
			0.1 mg/m³ Ceiling (fume, as	
			V2O5)	
Hydrofluoric Acid (7664-39-3)	TWA	USA	"2.5 mg/m³ TWA (as F)" As	U.S OSHA - Final PELs - Time
			Fluorides [RR-02792-9]	Weighted Averages (TWAs)
Hydrofluoric Acid (7664-39-3)	TLV-TWA	USA	"2.5 mg/m³ TWA (as F)" As	ACGIH - Threshold Limit Values - Time
			Fluorides [RR-02792-9]	Weighted Averages (TLV-TWA)
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)	TWA	USA	3 ppm TWA (as F)	U.S OSHA - Final PELs - Time
				Weighted Averages (TWAs)
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)	TLV-TWA	USA	2.5 mg/m³ TWA (as F)	ACGIH - Threshold Limit Values - Time
				Weighted Averages (TLV-TWA)
Hydrofluoric Acid (7664-39-3)	TWA	USA	2.5 mg/m³ TWA (as F)	U.S OSHA - Final PELs - Time
				Weighted Averages (TWAs)
Nitric Acid (7697-37-2)	TWA	USA	2 ppm TWA; 5 mg/m ³ TWA	U.S OSHA - Final PELs - Time
				Weighted Averages (TWAs)

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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)	TLV-STEL	USA	4 ppm STEL	ACGIH - Threshold Limit Values -
				Short Term Exposure Limits
				(TLV-STEL)
Selenium (7782-49-2)	TLV-TWA	USA	0.2 mg/m³ TWA	ACGIH - Threshold Limit Values - Time
				Weighted Averages (TLV-TWA)
Selenium (7782-49-2)	TWA	USA	"0.2 mg/m³ TWA (as Se)"	U.S OSHA - Final PELs - Time
			As Selenium compounds	Weighted Averages (TWAs)
			[RR-00612-2]	
Selenium (7782-49-2)	TLV-TWA	USA	"0.2 mg/m³ TWA (as Se)"	ACGIH - Threshold Limit Values - Time
			As Selenium compounds	Weighted Averages (TLV-TWA)
			[RR-00612-2]	
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]	

8.2. Exposure Controls

Engineering Controls: Use only outdoors or in a well-ventilated area. No specific controls are needed. Normal room ventilation is

adequate.

Respiratory Protection: In case of inadequate ventilation wear 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. In case of inadequate ventilation wear respiratory 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: Light colored liquid

Physical State: Liquid

Odor: Data not available.

Odor Threshold: Data not available.

pH: Acidic

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: 1.03

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:

Fatal if inhaled. Do not breathe fumes, mist, vapors, or spray. Use only outdoors or in a well-ventilated area. In case of inadequate ventilation wear respiratory protection. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician. Specific treatment is urgent (Wash areas of contact with water.). Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

Acute Toxicity - Other Information:

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

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.). 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:

Not applicable.

Germ Cell Mutagenicity:

Not applicable.

Carcinogenicity:

Not applicable.

Reproductive Toxicity:

Not applicable.

Specific Target Organ Toxicity from Single Exposure:

Not applicable.

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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

Toxic to aquatic life. Avoid release to the environment. Dispose of contents in accordance with local, state, federal and international regulations. Toxic to aquatic life with long lasting effects. Avoid release to the environment. Collect spillage. 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: 100 mL, 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: 100 mL, 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: 100 mL, 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

Arsenic Trioxide (CAS # 1327-53-3): "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]

Arsenic Trioxide (CAS # 1327-53-3): 10 µg/m3 TWA (See 29 CFR 1910.1018, except Arsine, as As); 5 µg/m3 Action Level (See 29 CFR 1910.1018, except Arsine, as As)

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

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 μ g/m3 TWA (See 29 CFR 1910.1027); 2.5 μ g/m3 Action Level

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

Arsenic Trioxide (CAS # 1327-53-3): 1 lb EPCRA RQ

Arsenic Trioxide (CAS # 1327-53-3): 100 lb lower TPQ; 10000 lb upper TPQ

Ammonium Hydroxide (CAS # 1336-21-6): 100 lb EPCRA RQ

Ammonium Hydroxide (CAS # 1336-21-6): 500 lb TPQ

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

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

Antimony Trioxide (CAS # 1309-64-4): 1000 lb final RQ; 454 kg final RQ

Arsenic Trioxide (CAS # 1327-53-3): 1 lb final RQ; 0.454 kg final RQ

Ammonium Hydroxide (CAS # 1336-21-6): 100 lb final RQ; 45.4 kg final RQ Ammonium Hydroxide (CAS # 1336-21-6): 1000 lb final RQ; 454 kg final RQ

Ammonium Hexafluorosilicate (IV) (CAS # 16919-19-0): 1000 lb final RQ; 454 kg final RQ

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 metal 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)

Mercury (CAS # 7439-97-6): 1 lb final RQ; 0.454 kg final RQ

Nickel (CAS # 7440-02-0): 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 $>100 \mu m$); 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 $>100 \mu m$)

Silver (CAS # 7440-22-4): 1 lb final RQ; 0.454 kg final RQ

Silver (CAS # 7440-22-4): 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 $>100 \mu m$); 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 $>100 \mu m$)

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 solid metal released is >100 μ m); 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 μ m)

Beryllium (CAS # 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 $>100 \mu m$); 4.

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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)

Antimony Trioxide (CAS # 1309-64-4): "1.0 % de minimis concentration (includes any unique chemical substance that contains Antimony as part of that chemical's infrastructure, listed under Chemical Category N010)" As Antimony compounds [RR-00585-6]

Antimony Trioxide (CAS # 1309-64-4): 1.0 % de minimis concentration (includes any unique chemical substance that contains Antimony as part of that chemical's infrastructure, listed under Chemical Category N010)

Ammonium Molybdate (CAS # 13106-76-8): "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]

Ammonium Molybdate (CAS # 13106-76-8): 1.0 % de minimis concentration (10% of total aqueous Ammonia is reportable under this listing) Arsenic Trioxide (CAS # 1327-53-3): "0.1 % de minimis conc

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15.5. Massachusetts Right-to-Know Substance List

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

Antimony Trioxide (CAS # 1309-64-4): Present

Arsenic Trioxide (CAS # 1327-53-3): Extraordinarily hazardous

Ammonium Hydroxide (CAS # 1336-21-6): Extraordinarily hazardous (including anhydrous)

Ammonium Hydroxide (CAS # 1336-21-6): Present

Ammonium Hexafluorosilicate (IV) (CAS # 16919-19-0): Present

Lithium Carbonate, 6Li2CO3 (CAS # 554-13-2): Teratogen

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

Magnesium (CAS # 7439-95-4): Present

Manganese (CAS # 7439-96-5): Present

Mercury (CAS # 7439-97-6): Present

Nickel (CAS # 7440-02-0): Carcinogen; Extraordinarily hazardous

Silver (CAS # 7440-22-4): Present

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

Tin (CAS # 7440-31-5): Present

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

Cobalt (CAS # 7440-48-4): Present Copper (CAS # 7440-50-8): Present

Vanadium (CAS # 7440-62-2): Present (dust and fume)

Zinc (CAS # 7440-66-6): Present

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

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

Selenium (CAS # 7782-49-2): Present

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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): "Present" As Barium compounds [RR-00555-0]

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

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

Antimony Trioxide (CAS # 1309-64-4): "Environmental hazard" As Antimony compounds [RR-00585-6]

Antimony Trioxide (CAS # 1309-64-4): "Present" As Antimony compounds [RR-00585-6]

Antimony Trioxide (CAS # 1309-64-4): Environmental hazard

Antimony Trioxide (CAS # 1309-64-4): Present

Arsenic Trioxide (CAS # 1327-53-3): "Environmental hazard" As Arsenic compounds [RR-00625-7]

Arsenic Trioxide (CAS # 1327-53-3): "Present" As Arsenic compounds [RR-00625-7]

Arsenic Trioxide (CAS # 1327-53-3): Environmental hazard

Arsenic Trioxide (CAS # 1327-53-3): Environmental hazard; Special hazardous substance

Arsenic Trioxide (CAS # 1327-53-3): Present

Ammonium Hydroxide (CAS # 1336-21-6): Environmental hazard

Ammonium Hydroxide (CAS # 1336-21-6): Present

Ammonium Hexafluorosilicate (IV) (CAS # 16919-19-0): Environmental hazard

Ammonium Hexafluorosilicate (IV) (CAS # 16919-19-0): Present

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

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

Magnesium (CAS # 7439-95-4): Present

Manganese (CAS # 7439-96-5): "Environmental hazard" As Manganese compounds [RR-00602-0]

Manganese (CAS # 7439-96-5): "Present" As Manganese compounds [RR-00602-0]

Manganese (CAS # 7439-96-5): Environmental hazard

Manganese (CAS # 7439-96-5): Present

Mercury (CAS # 7439-97-6): Environmental hazard

Mercury (CAS # 7439-97-6): Present

Nickel (CAS # 7440-02-0): "Environmental hazard" As Nickel compounds [RR-00800-4]

Nickel (CAS # 7440-02-0): "Present" As Nickel compounds [RR-00800-4]

Nickel (CAS # 7440-02-0): Environmental hazard

Nickel (CAS # 7440-02-0): Environmental hazard; Special hazardous substance

Nickel (CAS # 7440-02-0): Present

Silver (CAS # 7440-22-4): Environmental hazard

Silver (CAS # 7440-22-4): Present

Thallium (CAS #

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

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)

Boric Acid (CAS # 10043-35-3): "sn 0241" As Borate compounds, inorganic [RR-33876-1]

Boric Acid (CAS # 10043-35-3): sn 0241

Antimony Trioxide (CAS # 1309-64-4): "SN 2223 500 lb TPQ (Category Code N010. Includes any unique chemical substance that contains the named metal as part of that chemical structure)" As Antimony compounds [RR-00585-6]

Antimony Trioxide (CAS # 1309-64-4): "sn 2223" As Antimony compounds [RR-00585-6]

Antimony Trioxide (CAS # 1309-64-4): carcinogen Antimony Trioxide (CAS # 1309-64-4): sn 0149

Antimony Trioxide (CAS # 1309-64-4): sn 2223

Antimony Trioxide (CAS # 1309-64-4): SN 2223 500 lb TPQ (Category Code N010. Includes an

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15.8. California Proposition 65

Antimony Trioxide (CAS # 1309-64-4): carcinogen, 10/1/1990

Arsenic Trioxide (CAS # 1327-53-3): "0.06 μg/day NSRL (inhalation, listed under Arsenic); 10 μg/day NSRL (except inhalation, listed under Arsenic)"

As Arsenic, inorganic compounds [RR-00065-7]

Arsenic Trioxide (CAS # 1327-53-3): "carcinogen, 2/27/1987" As Arsenic, inorganic compounds [RR-00065-7]

Arsenic Trioxide (CAS # 1327-53-3): "developmental toxicity, 5/1/1997" As Arsenic inorganic oxides [RR-03689-5]

Arsenic Trioxide (CAS # 1327-53-3): 0.06 µg/day NSRL (inhalation, listed under Arsenic); 10 µg/day NSRL (except inhalation, listed under Arsenic)

Arsenic Trioxide (CAS # 1327-53-3): carcinogen, 2/27/1987

Arsenic Trioxide (CAS # 1327-53-3): developmental toxicity, 5/1/1997

Lithium Carbonate, 6Li2CO3 (CAS # 554-13-2): developmental toxicity, 1/1/1991

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

Mercury (CAS # 7439-97-6): "developmental toxicity, 7/1/1990" As Mercury compounds [RR-00138-7]

Mercury (CAS # 7439-97-6): developmental toxicity, 7/1/1990

Nickel (CAS # 7440-02-0): "carcinogen, 5/7/2004" As Nickel compounds [RR-00800-4]

Nickel (CAS # 7440-02-0): carcinogen, 10/1/1989 (metallic)

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

Cobalt (CAS # 7440-48-4): carcinogen, 7/1/1992 (powder)

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

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

Boric Acid (CAS # 10043-35-3): Present (DSL)

Antimony Trioxide (CAS # 1309-64-4): Present (DSL)

Ammonium Molybdate (CAS # 13106-76-8): Present (DSL)

Arsenic Trioxide (CAS # 1327-53-3): Present (DSL)

Ammonium Hydroxide (CAS # 1336-21-6): Present (DSL)

Strontium Carbonate (CAS # 1633-05-2): Present (DSL)

Ammonium Hexafluorosilicate (IV) (CAS # 16919-19-0): Present (DSL)

Calcium Carbonate (CAS # 471-34-1): Present (DSL)

Sodium Carbonate (CAS # 497-19-8): Present (DSL)

Lithium Carbonate, 6Li2CO3 (CAS # 554-13-2): Present (DSL)

Potassium Carbonate (CAS # 584-08-7): Present (DSL)

Iron (CAS # 7439-89-6): Present (DSL)

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

Magnesium (CAS # 7439-95-4): Present (DSL)

Manganese (CAS # 7439-96-5): Present (DSL)

Mercury (CAS # 7439-97-6): Present (DSL)

Nickel (CAS # 7440-02-0): Present (DSL)

Silver (CAS # 7440-22-4): Present (DSL)

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

Tin (CAS # 7440-31-5): Present (DSL)

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

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

Cobalt (CAS # 7440-48-4): Present (DSL)

Copper (CAS # 7440-50-8): Present (DSL)

Vanadium (CAS # 7440-62-2): Present (DSL)

Zinc (CAS # 7440-66-6): Present (DSL)

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

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

Ammonium Dihydrogen Phosphate (CAS # 7722-76-1): Present (DSL)

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

Selenium (CAS # 7782-49-2): Present (DSL)

Aluminum Nitrate Nonahydrate (CAS # 7784-27-2): Present (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)

Boric Acid (CAS # 10043-35-3): Present (ACTIVE)

Antimony Trioxide (CAS # 1309-64-4): Present (ACTIVE)

Ammonium Molybdate (CAS # 13106-76-8): Present (ACTIVE)

Arsenic Trioxide (CAS # 1327-53-3): Present (ACTIVE)

Ammonium Hydroxide (CAS # 1336-21-6): Present (ACTIVE)

Strontium Carbonate (CAS # 1633-05-2): Present (ACTIVE)

Ammonium Hexafluorosilicate (IV) (CAS # 16919-19-0): Present (ACTIVE)

Calcium Carbonate (CAS # 471-34-1): Present (ACTIVE)

Sodium Carbonate (CAS # 497-19-8): Present (ACTIVE)

Lithium Carbonate, 6Li2CO3 (CAS # 554-13-2): Present (ACTIVE)

Potassium Carbonate (CAS # 584-08-7): Present (ACTIVE)

Iron (CAS # 7439-89-6): Present (ACTIVE)

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

Magnesium (CAS # 7439-95-4): Present (ACTIVE)

Manganese (CAS # 7439-96-5): Present (ACTIVE)

Mercury (CAS # 7439-97-6): Present [S; 12C] (ACTIVE)

Nickel (CAS # 7440-02-0): Present (ACTIVE)

Silver (CAS # 7440-22-4): Present (ACTIVE)

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

Tin (CAS # 7440-31-5): Present (ACTIVE)

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

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

Cobalt (CAS # 7440-48-4): Present (ACTIVE)

Copper (CAS # 7440-50-8): Present (ACTIVE)

Vanadium (CAS # 7440-62-2): Present (ACTIVE)

Zinc (CAS # 7440-66-6): Present (ACTIVE)

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

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

Ammonium Dihydrogen Phosphate (CAS # 7722-76-1): Present (ACTIVE)

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

Selenium (CAS # 7782-49-2): Present (ACTIVE)

Aluminum Nitrate Nonahydrate (CAS # 7784-27-2): Present (ACTIVE)

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

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

Boric Acid (CAS # 10043-35-3): 233-139-2

Boric Acid (CAS # 10043-35-3): 234-343-4

Antimony Trioxide (CAS # 1309-64-4): 215-175-0

Antimony Trioxide (CAS # 1309-64-4): 215-474-6

Ammonium Molybdate (CAS # 13106-76-8): 236-031-3

Arsenic Trioxide (CAS # 1327-53-3): 215-481-4

Ammonium Hydroxide (CAS # 1336-21-6): 215-647-6

Ammonium Hydroxide (CAS # 1336-21-6): 231-635-3

Strontium Carbonate (CAS # 1633-05-2): 216-643-7

Ammonium Hexafluorosilicate (IV) (CAS # 16919-19-0): 240-968-3

Calcium Carbonate (CAS # 471-34-1): 207-439-9

Sodium Carbonate (CAS # 497-19-8): 207-838-8

Sodium Carbonate (CAS # 497-19-8): 231-420-4

Lithium Carbonate, 6Li2CO3 (CAS # 554-13-2): 209-062-5

Potassium Carbonate (CAS # 584-08-7): 209-529-3

Potassium Carbonate (CAS # 584-08-7): 241-378-9

Iron (CAS # 7439-89-6): 231-096-4

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

Magnesium (CAS # 7439-95-4): 231-104-6

Manganese (CAS # 7439-96-5): 231-105-1

Mercury (CAS # 7439-97-6): 231-106-7

Nickel (CAS # 7440-02-0): 231-111-4

Silver (CAS # 7440-22-4): 231-131-3

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

Tin (CAS # 7440-31-5): 231-141-8

Beryllium (CAS # 7440-41-7): 231-150-7

Cadmium (CAS # 7440-43-9): 231-152-8

Cobalt (CAS # 7440-48-4): 231-158-0

Copper (CAS # 7440-50-8): 231-159-6

Vanadium (CAS # 7440-62-2): 231-171-1

Zinc (CAS # 7440-66-6): 231-175-3

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

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

Ammonium Dihydrogen Phosphate (CAS # 7722-76-1): 231-764-5

Ammonium Dihydrogen Phosphate (CAS # 7722-76-1): 233-330-0

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

Selenium (CAS # 7782-49-2): 231-957-4

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Aluminum Nitrate Nonahydrate (CAS # 7784-27-2): 236-751-8 Chromium Nitrate Nonahydrate (CAS # 7789-02-8): 236-921-1

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. Fatal if inhaled. Toxic to aquatic life with long lasting effects.

Keep only in original container. Do not breathe fumes, mist, vapors, or spray. Wash arms, hands and face thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves and eye protection. In case of inadequate ventilation wear respiratory protection.

IF SWALLOWED: rinse mouth. Do NOT induce vomiting. 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. Immediately call a POISON CENTER or physician. Specific treatment is urgent (Wash areas of contact with water.). Wash contaminated clothing before reuse. Absorb spillage to prevent material damage. Collect spillage.

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

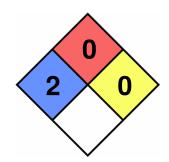
Physical Hazards Not Otherwise Classified (PHNOC): Not Applicable.

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:



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16.4. Document Revision

Last Revision Date: 2023-09-11

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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