

Classified according to WHMIS 2015

SECTION 1: Identification

1.1. Product Identifier

Trade Name or Designation: ICP Blend, 17 Elements in 2% HNO₃/tr HF

Product Number: RICP6400

Other Identifying Product Numbers: RICP6400-100B

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

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 3	H331	P261, P271, P304+P340, P311, P321,
			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 2	H319	P264, P280, P305+P351+P338, P337+P313
Hazardous to the Aquatic Environment (Acute)	Category 3	H402	P273, P501
Hazardous to the Aquatic Environment (Chronic)	Category 3	H412	P273, P501

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2.2. GHS Label Elements

Pictograms:



Signal Word: Danger

Hazard Statements:

Hazard Number	Hazard Statement
H314	Causes severe skin burns and eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H402	Harmful to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

Precautionary Statements:

Precautionary Number	Precautionary Statement
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.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves and eye 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.
P311	Call a POISON CENTER or physician.
P321	Specific treatment (Wash areas of contact with water.).
P337+P313	If eye irritation persists: Get medical attention.
P363	Wash contaminated clothing before reuse.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents in accordance with local, state, federal and international regulations.

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2.4. Hazards not Otherwise Classified or Covered by GHS

Data not available.

SECTION 3: Composition / Information on Ingredients

3.1. Components of Substance or Mixture

Chemical Name	Formula	Molecular Weight	CAS Number	Weight%
Water	H ₂ O	18.01 g/mol	7732-18-5	97.94
Nitric Acid	HNO ₃	63.01 g/mol	7697-37-2	1.98
Chromium Nitrate Nonahydrate	Cr(NO ₃) ₃ ·9H ₂ O	238.01 g/mol	7789-02-8	< 0.1
Barium Nitrate	Ba(NO ₃) ₂	261.33 g/mol	10022-31-8	< 0.1
Zinc	Zn	65.40 g/mol	7440-66-6	< 0.1
Copper	Cu	63.54 g/mol	7440-50-8	< 0.1
Lead	Pb	207.2 g/mol	7439-92-1	< 0.1
Vanadium	V	50.94 g/mol	7440-62-2	< 0.1
Hydrofluoric Acid	HF	20.00 g/mol	7664-39-3	< 0.1
Nickel	Ni	58.69 g/mol	7440-02-0	< 0.1
Antimony Trioxide	Sb ₂ O ₃	291.51 g/mol	1309-64-4	< 0.1
Cobalt	Со	58.93 g/mol	7440-48-4	< 0.1
Molybdenum	Мо	95.95 g/mol	7439-98-7	< 0.1
Manganese	Mn	54.93 g/mol	7439-96-5	< 0.1
Cadmium	Cd	112.41 g/mol	7440-43-9	< 0.1
Arsenic	As	74.92 g/mol	7440-38-2	< 0.1
Silver	Ag	107.86 g/mol	7440-22-4	< 0.1
Selenium	Se	78.95 g/mol	7782-49-2	< 0.1
Beryllium	Be	9.01 g/mol	7440-41-7	< 0.1
Thallium	TI	204.38 g/mol	7440-28-0	< 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.

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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 irritation. Toxic if inhaled. CAUTION! Mildly corrosive liquid. Contains a trace amount of known and suspected carcinogens. Avoid contact with skin, eyes, and clothing. If swallowed, dilute with water and call a physician. Wash areas of contact with plenty of water. EYE CONTACT: May cause irritation, redness, pain, and tearing. SKIN CONTACT: May cause irritation, redness and pain. Contact will discolor skin yellow-brown depending on exposure which will wear off after a period of time.

4.3. Medical Attention or Special Treatment Needed

Immediately call a POISON CENTER or physician. Specific treatment (Wash areas of contact with water.).

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. May react explosively with combustible organic or readily oxidizable materials such as: alcohols, turpentine, charcoal, organic refuse, metal powder, hydrogen sulfide, etc.

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

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

SECTION 7: Handling and Storage

7.1. Precautions for Safe Handling and Storage Conditions

Store locked up. As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage. Keep out of direct sunlight and away from heat, water, and incompatible materials.

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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)"	ACGIH - Threshold Limit Values - Time
			As Barium soluble	Weighted Averages (TLV-TWA)
			compounds [RR-00049-7]	
Barium Nitrate (10022-31-8)	TWA	USA	"0.5 mg/m3 TWA (regulated	U.S OSHA - Final PELs - Time
			under CAS 7440-39-3, as	Weighted Averages (TWAs)
			Ba)" As Barium, soluble	
			compounds [RR-00049-7]	
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/m ³ TWA (regulated	U.S OSHA - Final PELs - Time
			under CAS 7440-39-3, as	Weighted Averages (TWAs)
			Ba)	
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/m³ 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)	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]	

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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)" As Antimony compounds [RR-00585-6]	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)
Antimony Trioxide (1309-64-4)	TLV-TWA	USA	"0.5 mg/m³ TWA (as Sb)" As Antimony compounds [RR-00585-6]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
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)	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)	PEL-Ceiling	USA	"5 mg/m³ Ceiling (as Mn)" As Manganese compounds [RR-00602-0]	U.S OSHA - Final PELs - Ceiling Limits
Manganese (7439-96-5)	PEL-Ceiling	USA	"5 mg/m³ Ceiling (as Mn)" As Manganese compounds [RR-00602-0]	U.S OSHA - Final PELs - Ceiling Limits
Manganese (7439-96-5)	PEL-Ceiling	USA	"5 mg/m³ Ceiling (as Mn)" As Manganese compounds [RR-00602-0]	U.S OSHA - Final PELs - Ceiling Limits
Manganese (7439-96-5)	PEL-Ceiling	USA	"5 mg/m³ Ceiling (as Mn)" As Manganese compounds [RR-00602-0]	U.S OSHA - Final PELs - Ceiling Limits
Manganese (7439-96-5)	PEL-Ceiling	USA	"5 mg/m³ Ceiling (as Mn)" As Manganese compounds [RR-00602-0]	U.S OSHA - Final PELs - Ceiling Limits
Manganese (7439-96-5)	TLV-TWA	USA	0.02 mg/m³ TWA (respirable particulate matter); 0.1 mg/m³ TWA (inhalable particulate matter)	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Manganese (7439-96-5)	PEL-Ceiling	USA	5 mg/m³ Ceiling (fume)	U.S OSHA - Final PELs - Ceiling Limits

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Manganese (7439-96-5)	PEL-Ceiling	USA	"5 mg/m³ Ceiling (as Mn)" As Manganese compounds [RR-00602-0]	U.S OSHA - Final PELs - Ceiling Limits
Manganese (7439-96-5)	TLV-TWA	USA	0.02 mg/m³ TWA (respirable particulate matter, as Mn); 0.1 mg/m³ TWA (inhalable particulate matter, as Mn)	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Molybdenum (7439-98-7)	TWA	USA	"15 mg/m³ TWA (total dust)" As Molybdenum, insoluble compounds [RR-00037-3]	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)
Molybdenum (7439-98-7)	TLV-TWA	USA	10 mg/m³ TWA (inhalable particulate matter); 3 mg/m³ TWA (respirable particulate matter)	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Molybdenum (7439-98-7)	TLV-TWA	USA	10 mg/m³ TWA (inhalable particulate matter, as Mo); 3 mg/m³ TWA (respirable particulate matter, as Mo)	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Molybdenum (7439-98-7)	TWA	USA	15 mg/m³ TWA (total dust)	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)
Nickel (7440-02-0)	TLV-TWA	USA	1.5 mg/m³ TWA (inhalable particulate matter)	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Nickel (7440-02-0)	TWA	USA	1 mg/m³ TWA	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)
Silver (7440-22-4)	TLV-TWA	USA	0.1 mg/m³ TWA (dust and fume)	ACGIH - Threshold Limit Values - Time 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 particulate matter, as TI)" As Thallium compounds [RR-00575-4]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Thallium (7440-28-0)	TLV-TWA	USA	"0.02 mg/m³ TWA (inhalable particulate matter, as TI)" As Thallium compounds [RR-00575-4]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Thallium (7440-28-0)	TLV-TWA	USA	"0.02 mg/m³ TWA (inhalable particulate matter, as TI)" As Thallium compounds [RR-00575-4]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)

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Thallium (7440-28-0)	TLV-TWA	USA	"0.02 mg/m³ TWA	ACGIH - Threshold Limit Values - Time
			(inhalable particulate	Weighted Averages (TLV-TWA)
			matter, as TI)" As Thallium	
			compounds [RR-00575-4]	
Thallium (7440-28-0)	TLV-TWA	USA	"0.02 mg/m³ TWA	ACGIH - Threshold Limit Values - Time
			(inhalable particulate	Weighted Averages (TLV-TWA)
			matter, as TI)" As Thallium	
			compounds [RR-00575-4]	
Thallium (7440-28-0)	TLV-TWA	USA	"0.02 mg/m³ TWA	ACGIH - Threshold Limit Values - Time
			(inhalable particulate	Weighted Averages (TLV-TWA)
			matter, as TI)" As Thallium	
			compounds [RR-00575-4]	
Thallium (7440-28-0)	TLV-TWA	USA	"0.02 mg/m³ TWA	ACGIH - Threshold Limit Values - Time
			(inhalable particulate	Weighted Averages (TLV-TWA)
			matter, as TI)" As Thallium	
			compounds [RR-00575-4]	
Thallium (7440-28-0)	TLV-TWA	USA	"0.02 mg/m³ TWA	ACGIH - Threshold Limit Values - Time
			(inhalable particulate	Weighted Averages (TLV-TWA)
			matter, as TI)" As Thallium	
			compounds [RR-00575-4]	
Thallium (7440-28-0)	TLV-TWA	USA	"0.02 mg/m³ TWA	ACGIH - Threshold Limit Values - Time
			(inhalable particulate	Weighted Averages (TLV-TWA)
			matter, as TI)" As Thallium	
			compounds [RR-00575-4]	
Thallium (7440-28-0)	TLV-TWA	USA	"0.02 mg/m³ TWA	ACGIH - Threshold Limit Values - Time
			(inhalable particulate	Weighted Averages (TLV-TWA)
			matter, as TI)" As Thallium	
			compounds [RR-00575-4]	
Thallium (7440-28-0)	TLV-TWA	USA	"0.02 mg/m³ TWA	ACGIH - Threshold Limit Values - Time
			(inhalable particulate	Weighted Averages (TLV-TWA)
			matter, as TI)" As Thallium	
			compounds [RR-00575-4]	
Thallium (7440-28-0)	TLV-TWA	USA	0.02 mg/m ³ 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	ACGIH - Threshold Limit Values - Time
			(inhalable particulate	Weighted Averages (TLV-TWA)
			matter, as TI)" As Thallium	
			compounds [RR-00575-4]	
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]	

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Arsenic (7440-38-2)	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 (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/m³	
			Action Level (as As)" As	
			Inorganic arsenic	
			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)	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)	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)	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)	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)" As	
			Inorganic arsenic	
			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/m³	
			Action Level (as As)" As	
			Inorganic arsenic	
			compounds [RR-00065-7]	

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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 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)	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)	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)	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]	

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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/m³	
			Action Level (as As)" As	
			Inorganic arsenic	
			compounds [RR-00065-7]	
Arsenic (7440-38-2)	PEL	USA	"10 μ g/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)" As	
			Inorganic arsenic	
			compounds [RR-00065-7]	
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)	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)	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)	PEL	USA	"10 μ g/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)" As	
			Inorganic arsenic	
			compounds [RR-00065-7]	
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)	PEL	USA	"10 μ g/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 As)"	ACGIH - Threshold Limit Values - Time
			As Arsenic inorganic	Weighted Averages (TLV-TWA)
			compounds [RR-00065-7]	

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Arsenic (7440-38-2)	TWA	USA	"10 µg/m³ TWA (as As)" As Arsenic, inorganic compounds [RR-00065-7]	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)	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)	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)	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)	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)	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)	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-STEL	USA	2 μg/m³ STEL (see 29 CFR 1910.1024)	U.S OSHA - Final PELs - Short Term Exposure Limits
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-Ceiling	USA	2 μg/m³ Ceiling	U.S OSHA - Final PELs - Ceiling Limits
Beryllium (7440-41-7)	TWA	USA	0.2 μg/m³ TWA	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

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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, as Cd); 2.5 μg/m³ Action Level (as Cd)" As Cadmium compounds [RR-00559-4]	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
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)	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

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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]	
Cadmium (7440-43-9)	TLV-TWA	USA	"0.01 mg/m³ TWA (as Cd);	ACGIH - Threshold Limit Values - Time
			0.002 mg/m³ TWA	Weighted Averages (TLV-TWA)
			(respirable particulate	
			matter, as Cd)" As	
			Cadmium compounds	
Codmium (7440-40-0)	DEI	LICA	[RR-00559-4]	II.C. OCHA Chocifically Demyloted
Cadmium (7440-43-9)	PEL	USA	"5 µg/m³ TWA (See 29 CFR	U.S OSHA - Specifically Regulated Chemicals with PELs
			1910.1027, as Cd); 2.5 μg/m³ Action Level (as Cd)"	Chemicals with FELS
			As Cadmium compounds	
			[RR-00559-4]	
Cadmium (7440-43-9)	TLV-TWA	USA	"0.01 mg/m³ TWA (as Cd);	ACGIH - Threshold Limit Values - Time
	V 1 V V/ V	30/1	0.002 mg/m³ TWA (d3 Gd),	Weighted Averages (TLV-TWA)
			(respirable particulate	rreignica / treiages (121 1171)
			matter, as Cd)" As	
			Cadmium compounds	
			[RR-00559-4]	
Cadmium (7440-43-9)	TLV-TWA	USA	"0.01 mg/m³ TWA (as Cd);	ACGIH - Threshold Limit Values - Time
			0.002 mg/m ³ TWA	Weighted Averages (TLV-TWA)
			(respirable particulate	
			matter, as Cd)" As	
			Cadmium compounds	
			[RR-00559-4]	
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]	
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]	

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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	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Cadmium (7440-43-9)	PEL	USA	[RR-00559-4] "5 µg/m³ TWA (See 29 CFR 1910.1027, as Cd); 2.5	U.S OSHA - Specifically Regulated Chemicals with PELs
			µg/m³ Action Level (as Cd)" As Cadmium compounds [RR-00559-4]	
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
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); 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)

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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, 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)
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
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
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)
Cobalt (7440-48-4)	TWA	USA	0.1 mg/m³ TWA (dust and fume)	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)
Cobalt (7440-48-4)	TLV-TWA	USA	0.02 mg/m³ TWA (inhalable particulate matter)	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Cobalt (7440-48-4)	TLV-TWA	USA	0.02 mg/m³ TWA (inhalable particulate matter, as Co)	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)

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Copper (7440-50-8)	TWA	USA	0.1 mg/m³ TWA (fume); 1	U.S OSHA - Final PELs - Time
			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
				Weighted Averages (TLV-TWA)
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]	
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]	
Vanadium (7440-62-2)	PEL-Ceiling	USA	0.5 mg/m³ Ceiling	U.S OSHA - Final PELs - Ceiling
			(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)
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 (as Se)"	ACGIH - Threshold Limit Values - Time
			As Selenium compounds	Weighted Averages (TLV-TWA)
			[RR-00612-2]	
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]	

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Selenium (7782-49-2)	TLV-TWA	USA	"0.2 mg/m³ TWA (as Se)" As Selenium compounds	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
			[RR-00612-2]	Weighted Averages (TEV-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]	
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)	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]	
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]	
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)	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]	
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]	

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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: 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: Colorless liquid

Physical State: Liquid

Odor: Data not available.

Odor Threshold: Data not available.

pH: Data not available.

Melting/Freezing Point: Data not available.

Initial Boiling Point/Range: Data not available.

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: 1.02

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

Protect from freezing and physical damage.

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:

Toxic if inhaled. Avoid breathing fumes, mist, vapors, or spray. Use only outdoors or in a well-ventilated area. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician. Specific treatment (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.

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 irritation. Wash arms, hands and face thoroughly after handling. 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. If eye irritation persists: Get medical attention.

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

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



Not regulated according to DOT Regulations.

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

Not regulated according to IATA Dangerous Goods Regulations.

14.3 Transportation of Dangerous Goods (TDG, Canada)

Not regulated according to TDG Regulations.

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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)

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 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 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

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

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)

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 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)

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 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 metal 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 metal released is >100 μ m)

Arsenic (CAS # 7440-38-2): 1 lb final RQ; 0.454 kg final RQ

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 soli

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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)

Lead (CAS # 7439-92-1): 0.1 % Supplier notification limit; 0.1 % de minimis concentration (when contained in stainless steel, brass, or bronze)
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)
Manganese (CAS # 7439-96-5): "1.0 % de minimis concentration (includes any unique chemical substance that contains Manganese as p

15.5. Massachusetts Right-to-Know Substance List

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

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

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

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

Molybdenum (CAS # 7439-98-7): Present

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

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

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

Arsenic (CAS # 7440-38-2): Carcinogen; Extraordinarily hazardous 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 Lead (CAS # 7439-92-1): Environmental hazard

Lead (CAS # 7439-92-1): 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 Molybdenum (CAS # 7439-98-7): 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 # 7440-28-0): "Environmental hazard" As Thallium compounds [RR-00575-4]

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" As Arsenic compounds [RR-00625-7]

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" As Beryllium compounds [RR-00557-2]

Beryllium (CAS # 744

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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)

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 any unique chemical substance that contains the named metal as part of that chemical structure)

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

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15.8. California Proposition 65

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

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

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)

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

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

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

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

Molybdenum (CAS # 7439-98-7): Present (DSL)

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

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

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

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

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

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

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

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

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

Molybdenum (CAS # 7439-98-7): Present (ACTIVE)

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

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

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

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

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

Selenium (CAS # 7782-49-2): 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

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

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

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

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

Molybdenum (CAS # 7439-98-7): 231-107-2

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

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

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

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

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

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

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

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

SECTION 16: Other Information

16.1. Full Text of Hazard Statements and Precautionary Statements

Causes severe skin burns and eye damage. Causes serious eye irritation. Toxic if inhaled. Harmful to aquatic life with long lasting effects.

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.

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 (Wash areas of contact with water.). If eye irritation persists: Get medical attention. Wash contaminated clothing before reuse.

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.

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16.2. Miscellaneous Hazard Classes

Canadian Carcinogenicity Hazard Class: Not Applicable.

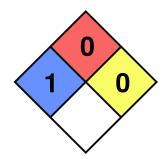
Physical Hazards Not Otherwise Classified (PHNOC): Not Applicable.

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

Biohazardous Infectious Materials Hazard Class: Not Applicable.

16.3. National Fire Protection Association (NFPA) Rating

Health: 1
Flammability: 0
Reactivity: 0
Special Hazard:



16.4. Document Revision

Last Revision Date: 2023-11-13

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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