SECTION 1: Identification

1.1. Product Identifier

Trade Name or Designation: Initial Calibration Verification Standard 7, CLP

Product Number: RICVSTD7

Other Identifying Product Numbers: RICVSTD7-500

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 hr)

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 (in accordance with OSHA HCS 29 CFR 1910.1200)

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

		Hazard	
Hazard Class	Category	Statement	Precautionary Statements
Acute Toxicity - Inhalation	Category 1	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
Reproductive Toxicity	Category 2	H361	P201, P202, P280, P308+P313, P405, P501
Specific Target Organs/Systemic Toxicity Following Single	Category 1	H370	P260, P264, P270, P307+P311, P321, P405, P501
Exposure			
Specific Target Organs/Systemic Toxicity Following Repeated	Category 1	H372	P260, P264, P270, P314, P501
Exposure			
Aspiration Hazard	Category 1	H304	P301+P310, P331, P405, P501
Corrosive to Metals	Category 1	H290	P234, P390, P406

2.2. GHS Label Elements

Pictograms:







Signal Word: Danger

Hazard Statements:

Hazard Number	Hazard Statement
H290	May be corrosive to metals.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H361	Suspected of damaging fertility or the unborn child.
H370	Causes damage to organs.
H372	Causes damage to organs through prolonged or repeated exposure.

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Precautionary Statements:

Precautionary Number Precautionary Statement P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P234 Keep only in original container. P260 Do not breathe dust, fumes or mist. P264 Wash arms, hands and face thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves and eye protection. P285 In case of inadequate ventilation wear respiratory protection.
P202 Do not handle until all safety precautions have been read and understood. P234 Keep only in original container. P260 Do not breathe dust, fumes or mist. P264 Wash arms, hands and face thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves and eye protection.
P234 Keep only in original container. P260 Do not breathe dust, fumes or mist. P264 Wash arms, hands and face thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves and eye protection.
P260 Do not breathe dust, fumes or mist. P264 Wash arms, hands and face thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves and eye protection.
P264 Wash arms, hands and face thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves and eye protection.
P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves and eye protection.
P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves and eye protection.
P280 Wear protective gloves and eye protection.
P285 In case of inadequate ventilation wear respiratory protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or physician.
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 ea
Continue rinsing.
P307+P311 IF exposed: Call a POISON CENTER or physician.
P308+P313 IF exposed or concerned: Get medical attention.
P310 Immediately call a POISON CENTER or physician.
P314 Get medical attention if you feel unwell.
P320 Specific treatment is urgent (Wash areas of contact with water immediately).
P321 Specific treatment (Wash areas of contact with water immediately).
P331 Do NOT induce vomiting.
P363 Wash contaminated clothing before reuse.
P390 Absorb spillage to prevent material damage.
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.

2.3. WHMIS Classification

WHMIS classification is not included based on the recommended option (Option 4) found in the Canada Gazette Part II, Vol. 149, No.3, page 458

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	H ₂ O	18.01 g/mol	7732-18-5	84.37%
Nitric Acid	HNO ₃	63.01 g/mol	7697-37-2	11.67%
Calcium Carbonate	CaCO ₃	100.09 g/mol	471-34-1	1.19%
Sodium Carbonate	Na ₂ CO ₃	105.98 g/mol	497-19-8	1.10%
Potassium Carbonate	K ₂ CO ₃	138.20 g/mol	584-08-7	0.84%
Magnesium	Mg	24.30 g/mol	7439-95-4	0.48%
Aluminum Nitrate Nonahydrate	$AI(NO_3)_3 \cdot 9H_2O$	375.13 g/mol	7784-27-2	0.26%
Barium Nitrate	Ba(NO ₃) ₂	261.33 g/mol	10022-31-8	0.04%
Iron	Fe	55.84 g/mol	7439-89-6	0.01%
Chromium Nitrate Nonahydrate	$Cr(NO_3)_3 \cdot 9H_2O$	238.01 g/mol	7789-02-8	0.01%
Antimony Trioxide	Sb_2O_3	291.51 g/mol	1309-64-4	0.01%
Manganous Nitrate Tetrahydrate	$Mn(NO_3)_2 \cdot 4H_2O$	Data not available.	15710-66-4	0.01%
Hydrofluoric Acid	HF	20.00 g/mol	7664-39-3	0.01%
Vanadium	V	50.94 g/mol	7440-62-2	0.00%
Cobalt	Co	58.93 g/mol	7440-48-4	0.00%
Nickel	Ni	58.69 g/mol	7440-02-0	0.00%
Copper	Cu	63.54 g/mol	7440-50-8	0.00%
Zinc	Zn	65.40 g/mol	7440-66-6	0.00%
Arsenic Trioxide	As_2O_3	197.84 g/mol	1327-53-3	0.00%
Thallium	TI	204.38 g/mol	7440-28-0	0.00%
Silver	Ag	107.86 g/mol	7440-22-4	0.00%
Selenium	Se	78.95 g/mol	7782-49-2	0.00%
Cadmium	Cd	112.41 g/mol	7440-43-9	0.00%
Beryllium	Be	9.01 g/mol	7440-41-7	0.00%
Lead	Pb	207.2 g/mol	7439-92-1	0.00%

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

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 immediately). Specific treatment (Wash areas of contact with water immediately).

SECTION 5: Fire-Fighting Measures

5.1. Extinguishing Media

Use water or water spray.

5.2. Specific Hazards Arising from the Substance or Mixture

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

5.3. Special Protective Equipment for Firefighters

Use protective clothing and breathing equipment appropriate for the surrounding fire.

SECTION 6: Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Wear protective gloves and eye protection. 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
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)
Arsenic Trioxide (1327-53-3)	TWA	USA	10 μg/m³ TWA (as As)	U.S OSHA - Final PELs - Time Weighter
				Averages (TWAs)
Arsenic Trioxide (1327-53-3)	TLV-TWA	USA	0.01 mg/m³ TWA (as As)	ACGIH - Threshold Limit Values - Time
				Weighted Averages (TLV-TWA)
Arsenic Trioxide (1327-53-3)	PEL	USA	10 μg/m³ TWA (Cancer hazard, See 29	9 U.S OSHA - Specifically Regulated
			CFR 1910.1018, except Arsine, as As)	Chemicals with PELs
			5 μg/m³ Action Level (as As)	
Barium Nitrate (10022-31-8)	TWA	USA	0.5 mg/m³ TWA (as Ba)	U.S OSHA - Final PELs - Time Weighter
				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)
Beryllium (7440-41-7)	TWA	USA	2 μg/m³ TWA	U.S OSHA - Final PELs - Time Weighted
				Averages (TWAs)
Beryllium (7440-41-7)	TWA	USA	2 μg/m³ TWA (as Be)	U.S OSHA - Final PELs - Time Weighted
				Averages (TWAs)
Beryllium (7440-41-7)	TLV-TWA	USA	0.00005 mg/m³ TWA (inhalable fraction	n ACGIH - Threshold Limit Values - Time
			as Be)	Weighted Averages (TLV-TWA)
Beryllium (7440-41-7)	TLV-TWA	USA	0.00005 mg/m³ TWA (inhalable	ACGIH - Threshold Limit Values - Time
			fraction)	Weighted Averages (TLV-TWA)
Beryllium (7440-41-7)	PEL-Ceiling	USA	5 μg/m³ Ceiling	U.S OSHA - Final PELs - Ceiling Limits
Beryllium (7440-41-7)	PEL-Ceiling	USA	5 μg/m³ Ceiling (as Be)	U.S OSHA - Final PELs - Ceiling Limits
Cadmium (7440-43-9)	TWA	USA	0.1 mg/m ³ TWA (fume, applies to any	U.S OSHA - Final PELs - Time Weighted
			operations or sectors for which the	Averages (TWAs)
			Cadmium standard is stayed or	
			otherwise not in effect)	
			0.2 mg/m3 TWA (dust, applies to any	
			operations or sectors for which the	
			Cadmium standard is stayed or	
			otherwise not in effect)	
			5 μg/m³ TWA	
Cadmium (7440-43-9)	TLV-TWA	USA	0.01 mg/m³ TWA	ACGIH - Threshold Limit Values - Time
			0.002 mg/m ³ TWA (respirable fraction)	Weighted Averages (TLV-TWA)

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Cadmium (7440-43-9)	TLV-TWA	USA	0.01 mg/m³ TWA (as Cd) 0.002 mg/m³ TWA (respirable fraction, as Cd)	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)	PEL	USA	5 μg/m³ TWA (Do not eat, drink or chew tobacco or gum or apply cosmetics in regulated areas. Carcinogen - dust can cause lung and kidney disease. See 29 CFR 1910.1027) 2.5 μg/m³ Action Level	U.S OSHA - Specifically Regulated Chemicals with PELs	
Cadmium (7440-43-9)	PEL	USA	5 μg/m³ TWA (Do not eat, drink or chew tobacco or gum or apply cosmetics in regulated areas. Carcinogen - dust can cause lung and kidney disease. See 29 CFR 1910.1027, as Cd) 2.5 μg/m³ Action Level (as Cd)	U.S OSHA - Specifically Regulated Chemicals with PELs	
Calcium Carbonate (471-34-1)	TWA	USA	15 mg/m³ TWA (total dust) 5 mg/m³ TWA (respirable fraction)	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)	
Chromium Nitrate Nonahydrate (7789-02-8)	TWA	USA	0.5 mg/m³ TWA (as Cr)	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)	
Chromium Nitrate Nonahydrate (7789-02-8)	TLV-TWA	USA	0.5 mg/m³ TWA (as Cr)	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 Weighter Averages (TWAs)	
Cobalt (7440-48-4)	TLV-TWA	USA	0.02 mg/m³ TWA	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)	
Cobalt (7440-48-4)	TLV-TWA	USA	0.02 mg/m³ TWA (as Co)	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)	
Copper (7440-50-8)	TWA	USA	0.1 mg/m³ TWA (fume) 1 mg/m³ TWA (dust and mist)	U.S OSHA - Final PELs - Time 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 mist, as Cu)	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)	

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Hydrofluoric Acid (7664-39-3)	TWA	USA	2.5 mg/m³ TWA (as F)	U.S OSHA - Final PELs - Time Weighted
,			2.5 mg/m³ TWA (dust)	Averages (TWAs)
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
,	Ū			(TLV-C)
Hydrofluoric Acid (7664-39-3)	TLV-TWA	USA	0.5 ppm TWA (as F)	ACGIH - Threshold Limit Values - Time
				Weighted Averages (TLV-TWA)
Hydrofluoric Acid (7664-39-3)	TLV-TWA	USA	2.5 mg/m³ TWA (as F)	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 Weighter
				Averages (TWAs)
Lead (7439-92-1)	TWA	USA	50 μg/m³ TWA (as Pb)	U.S OSHA - Final PELs - Time Weighter
				Averages (TWAs)
Lead (7439-92-1)	TLV-TWA	USA	0.05 mg/m³ TWA (as Pb)	ACGIH - Threshold Limit Values - Time
				Weighted Averages (TLV-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)	PEL	USA	30 μg/m³ Action Level (Poison, See 29	U.S OSHA - Specifically Regulated
			CFR 1910.1025)	Chemicals with PELs
			50 μg/m³ TWA	
Lead (7439-92-1)	PEL	USA	30 μg/m³ Action Level (Poison, See 29	U.S OSHA - Specifically Regulated
			CFR 1910.1025, as Pb)	Chemicals with PELs
			50 μg/m³ TWA (as Pb)	
Manganous Nitrate Tetrahydrate	TLV-TWA	USA	0.02 mg/m3 TWA (as Mn, listed under	ACGIH - Threshold Limit Values - Time
(15710-66-4)			respirable fraction)	Weighted Averages (TLV-TWA)
			0.1 mg/m³ TWA (as Mn)	
Manganous Nitrate Tetrahydrate	PEL-Ceiling	USA	5 mg/m³ Ceiling (as Mn)	U.S OSHA - Final PELs - Ceiling Limits
(15710-66-4)				
Nickel (7440-02-0)	TWA	USA	1 mg/m³ TWA	U.S OSHA - Final PELs - Time Weighted
				Averages (TWAs)
Nickel (7440-02-0)	TLV-TWA	USA	1.5 mg/m³ TWA (inhalable fraction)	ACGIH - Threshold Limit Values - Time
				Weighted Averages (TLV-TWA)
Nitric Acid (7697-37-2)	TWA	USA	2 ppm TWA	U.S OSHA - Final PELs - Time Weighter
			5 mg/m³ TWA	Averages (TWAs)
Nitric Acid (7697-37-2)	TLV-STEL	USA	4 ppm STEL	ACGIH - Threshold Limit Values - Short
				Term Exposure Limits (TLV-STEL)
Nitric Acid (7697-37-2)	TLV-TWA	USA	2 ppm TWA	ACGIH - Threshold Limit Values - Time
				Weighted Averages (TLV-TWA)
Selenium (7782-49-2)	TWA	USA	0.2 mg/m³ TWA (as Se)	U.S OSHA - Final PELs - Time Weighted
				Averages (TWAs)
Selenium (7782-49-2)	TLV-TWA	USA	0.2 mg/m³ TWA (as Se)	ACGIH - Threshold Limit Values - Time
				Weighted Averages (TLV-TWA)

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Selenium (7782-49-2)	TLV-TWA	USA	0.2 mg/m³ TWA	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)
Silver (7440-22-4)	TLV-TWA	USA	0.1 mg/m ³ TWA (dust and fume)	ACGIH - Threshold Limit Values - Time
				Weighted Averages (TLV-TWA)
Thallium (7440-28-0)	TLV-TWA	USA	0.02 mg/m³ TWA (inhalable fraction)	ACGIH - Threshold Limit Values - Time
				Weighted Averages (TLV-TWA)
Thallium (7440-28-0)	TLV-TWA	USA	0.02 mg/m³ TWA (inhalable fraction, a	s ACGIH - Threshold Limit Values - Time
			TI)	Weighted Averages (TLV-TWA)
Vanadium (7440-62-2)	PEL-Ceiling	USA	0.5 mg/m³ Ceiling (respirable dust, as	U.S OSHA - Final PELs - Ceiling Limits
			V2O5)	
			0.1 mg/m³ Ceiling (fume, as V2O5)	

8.2. Exposure Controls

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

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: Data not available.

Melting/Freezing Point: Approximately 0°C

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

Flash Point: Data not available.

Evaporation Rate: Data not available.

Flammability: Data not available.

Flammability/Explosive Limits: Data not available.

Vapor Pressure: Data not available. Vapor Density: Data not available.

Relative Density: 1.05

Solubility: Miscible

Partition Coefficient (n-Octanol/Water): Data not available.

Auto-Ignition Temperature: Data not available. **Decomposition Temperature:** Data not available.

Viscosity: Data not available.

ExplosiveProperties: 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 dust, fumes or mist. 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 immediately). 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. Beryllium and Nickel are investigated as tumorigens. LD50, Oral, Rat: (Antimony Trioxide) >34600 mg/kg, behavioral and skin effects noted. Antimony Trioxide is investigated as a tumorigen. LD50, Oral, Rat: 14.6 mg/kg (Arsenic Trioxide), 2330 mg/kg (Cadmium) 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 dust, fumes or mist. Wash arms, hands and face thoroughly after handling. Wear protective gloves and eye protection. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician. Specific treatment (Wash areas of contact with water immediately). IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

Serious Eye Damage and Irritation:

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

Respiratory Sensitization:

Not applicable.

Skin Sensitization:

Not applicable.

Germ Cell Mutagenicity:

Not applicable.

Carcinogenicity:

Not applicable.

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Reproductive Toxicity:

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

Specific Target Organ Toxicity from Single Exposure:

Causes damage to organs. Do not breathe dust, fumes or mist. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. IF exposed: Call a POISON CENTER or physician. Specific treatment (Wash areas of contact with water immediately). Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

Specific Target Organ Toxicity from Repeated Exposure:

Causes damage to organs through prolonged or repeated exposure. Do not breathe dust, fumes or mist. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. Get medical attention if you feel unwell. Dispose of contents in accordance with local, state, federal and international regulations.

Aspiration Hazard:

May be fatal if swallowed and enters airways. IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

Additional Toxicology Information:

Data not available.

SECTION 12: Ecological Information

12.1. Ecotoxicity

Not applicable.

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)

UN Number: UN3264

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

Hazard Class: 8

Packing Group:

Hazard Placard Labels:



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

UN Number: UN3264

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

Hazard Class: 8

Packing Group: Ⅲ

Hazard Placard Labels:



SECTION 15: Regulatory Information

15.1. Occupational Safety and Health Administration (OSHA) Hazards

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): $30 \mu g/m3$ Action Level (See 29 CFR 1910.1025); $50 \mu g/m3$ TWA (See 29 CFR 1910.1025)

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

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

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

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

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

Iron (CAS # 7439-89-6): 0.1 curie final RQ; 0.0037 TBq final RQ

Iron (CAS # 7439-89-6): 10 curie final RQ; 0.37 TBq final RQ

Iron (CAS # 7439-89-6): 100 curie final RQ; 3.7 TBq final RQ

Lead (CAS # 7439-92-1): 0.01 curie final RQ; 0.00037 TBq final RQ

Lead (CAS # 7439-92-1): 1 curie final RQ; 0.037 TBq final RQ

Lead (CAS # 7439-92-1): 10 curie final RQ; 0.37 TBg 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)

Lead (CAS # 7439-92-1): 100 curie final RQ; 3.7 TBq final RQ

Lead (CAS # 7439-92-1): 1000 curie final RQ; 37 TBq final RQ

Magnesium (CAS # 7439-95-4): 10 curie final RQ; 0.37 TBq final RQ

Nickel (CAS # 7440-02-0): 10 curie final RQ; 0.37 TBq final RQ

Nickel (CAS # 7440-02-0): 100 curie final RQ; 3.7 TBq 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 μ 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 μ m)

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

Silver (CAS # 7440-22-4): 10 curie final RQ; 0.37 TBq final RQ

Silver (CAS # 7440-22-4): 100 curie final RQ; 3.7 TBq final RQ

Silver (CAS # 7440-22-4): 1000 curie final RQ; 37 TBq 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 µm); 454 kg final RQ (no reporting of releases of this hazardous substance is requi

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Safety Data Sheet

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

Barium Nitrate (CAS # 10022-31-8): 1.0 % de minimis concentration (does not include Barium sulfate CAS 7727-43-7, Chemical Category N040)

Barium Nitrate (CAS # 10022-31-8): 1.0 % de minimis concentration (reportable only when in aqueous solution, Chemical Category N511)

Antimony Trioxide (CAS # 1309-64-4): 1.0 % de minimis concentration (listed under Chemical Category N010)

Arsenic Trioxide (CAS # 1327-53-3): 0.1 % de minimis concentration (listed under Chemical Category N020)

Manganous Nitrate Tetrahydrate (CAS # 15710-66-4): 1.0 % de minimis concentration (listed under Chemical Category N450)

Lead (CAS # 7439-92-1): 0.1 % Supplier notification limit (listed under Chemical Category N420)

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

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)

Nickel (CAS # 7440-02-0): 0.1 % de minimis concentration

Nickel (CAS # 7440-02-0): 0.1 % de minimis concentration (listed under Chemical Category N495)

Silver (CAS # 7440-22-4): 1.0 % de minimis concentration

Silver (CAS # 7440-22-4): 1.0 % de minimis concentration (listed under Chemical Category N740)

Thallium (CAS # 7440-28-0): 1.0 % de minimis concentration

Thallium (CAS # 7440-28-0): 1.0 % de minimis concentration (listed under Chemical Category N760)

Beryllium (CAS # 7440-41-7): 0.1 % de minimis concentration

Beryllium (CAS # 7440-41-7): 0.1 % de minimis concentration (listed under Chemical Category N050)

Cadmium (CAS # 7440-43-9): 0.1 % de minimis concentration

Cadmium (CAS # 7440-43-9): 0.1 % de minimis concentration (listed under Chemical Category N084)

Cobalt (CAS # 7440-48-4): 0.1 % de minimis concentration

Cobalt (CAS # 7440-48-4): 0.1 % de minimis concentration (listed under Chemical Category N096)

Copper (CAS # 7440-50-8): 1.0 % de minimis concentration

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

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

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

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

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

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

Thallium (CAS # 7440-28-0): 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

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

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

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

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

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

Manganous Nitrate Tetrahydrate (CAS # 15710-66-4): Environmental hazard

Manganous Nitrate Tetrahydrate (CAS # 15710-66-4): Present

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

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

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

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

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

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

Beryllium (CAS # 7440-41-7): Environmental hazard

Beryllium (CAS # 7440-41-7): Environmental hazard (dust); Special hazardous substance

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

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

Cadmium (CAS # 7440-43-9): Environmental hazard

Cadmium (CAS # 7440-43-9): Environmental hazard (dust, fume, powder); Special hazardous substance (powder)

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

Cadmium (CAS # 7440-43-9): Present (dust, fume, powder)

Cadmium (CAS # 7440-43-9): Present (powder) Cobalt (CAS # 7440-48-4): Environmental hazard

Cobalt (CAS # 7440-48-4): Environmental hazard (fume)

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

Copper (CAS # 7440-50-8): Environmental hazard

Copper (CAS # 7440-50-8): Environmental hazard (dust and fume)

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

Copper (CAS # 7440-50-8): Present (dust and fume)

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

Vanadium (CAS # 7440-62

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

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

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

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

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

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

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 TPQ: 500 lb (Category Code N010. Includes any unique chemical substance that contains the named metal as part of that chemical structure.)

Arsenic Trioxide (CAS # 1327-53-3): carcinogen Arsenic Trioxide (CAS # 1327-53-3): sn 0161

Arsenic Trioxide (CAS # 1327-53-3): SN 0161 TPQ: 100 lb

Arsenic Trioxide (CAS # 1327-53-3): sn 2138

Arsenic Trioxide (CAS # 1327-53-3): SN 2138 TPQ: 500 lb (Category Code N020. Includes any unique chemical substance that contains the named metal as part of that chemical structure. NJ uses UN1556 for reporting purposes)

Manganous Nitrate Tetrahydrate (CAS # 15710-66-4): sn 2324

Manganous Nitrate Tetrahydrate (CAS # 15710-66-4): SN 2324 TPQ: 500 lb (Category Code N450. Includes any unique chemical substance that contains the named metal as part of that chemical structure)

Calcium Carbonate (CAS # 471-34-1): sn 4001

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

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

Lead (CAS # 7439-92-1): sn 1096

Lead (CAS # 7439-92-1): SN 1096 TPQ: 500 lb

Lead (CAS # 7439-92-1): sn 2266

Lead (CAS # 7439-92-1): SN 2266 TPQ: 500 lb (Category Code N420. Includes any unique chemical substance that contains the named metal as part of that chemical structure)

Magnesium (CAS # 7439-95-4): sn 1136

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

Nickel (CAS # 7440-02-0): sn 1341 (dust and fume)

Nickel (CAS # 7440-02-0): SN 1341 TPQ: 500 lb

Nick

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15.8. California Proposition 65

Antimony Trioxide (CAS # 1309-64-4): carcinogen, initial date 10/1/90

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, initial date 2/27/87

Arsenic Trioxide (CAS # 1327-53-3): developmental toxicity, initial date 5/1/97

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

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

Lead (CAS # 7439-92-1): developmental toxicity, initial date 2/27/87

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

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

Nickel (CAS # 7440-02-0): carcinogen, initial date 10/1/89 (metallic)

Nickel (CAS # 7440-02-0): carcinogen, initial date 5/7/04

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

Beryllium (CAS # 7440-41-7): carcinogen, initial date 10/1/87

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

Cadmium (CAS # 7440-43-9): carcinogen, initial date 10/1/87

Cadmium (CAS # 7440-43-9): developmental toxicity, initial date 5/1/97

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

Cobalt (CAS # 7440-48-4): carcinogen, initial date 7/1/92 (powder)

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

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

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

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

Manganous Nitrate Tetrahydrate (CAS # 15710-66-4): Present

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Manganous Nitrate Tetrahydrate (CAS # 15710-66-4): Present

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Hydrofluoric Acid (CAS # 7664-39-3): Present [T]

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

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

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

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

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

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

Not listed.

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SECTION 16: Other Information

16.1. Full Text of Hazard Statements and Precautionary Statements

May be corrosive to metals. May be fatal if swallowed and enters airways. Causes severe skin burns and eye damage. Causes serious eye damage. Fatal if inhaled. Suspected of damaging fertility or the unborn child. Causes damage to organs. Causes damage to organs through prolonged or repeated exposure.

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep only in original container. Do not breathe dust, fumes or mist. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves and eye protection. In case of inadequate ventilation wear respiratory protection.

IF SWALLOWED: Immediately call a POISON CENTER or physician. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed: Call a POISON CENTER or physician. Get medical attention if you feel unwell. Specific treatment is urgent (Wash areas of contact with water immediately). Wash contaminated clothing before reuse. Absorb spillage to prevent material damage.

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.

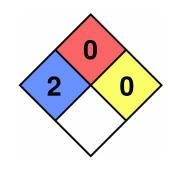
Physical Hazards Not Otherwise Classified (PHNOC): Not Applicable.

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

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: 5/1/2015

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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