Classified According to OSHA Hazard Communication Standard (HCS)

#### **SECTION 1: Identification**

#### 1.1. Product Identifier

Trade Name or Designation: Interference Ck Std, 15 element

Product Number: RINFCK15
Other Identifying Product Numbers: RINFCK15-100N

#### 1.2. Recommended Use and Restrictions on Use

General Laboratory Reagent

#### 1.3. Details of the Supplier of the Safety Data Sheet

Company: Ricca Chemical Company Address: 448 West Fork Drive

Arlington, TX 76012 USA

**Telephone:** 888-467-4222

#### 1.4. Emergency Telephone Number (24 hours)

CHEMTREC (USA) 800-424-9300 CHEMTREC (International) 1+ 703-527-3887

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## **Safety Data Sheet**

### **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 4	H332	P261, P271, P304+P340, P312
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
Carcinogenicity	Category 2	H351	P201, P202, P280, P308+P313, P405, P501
Reproductive Toxicity	Category 1	H360	P201, P202, P280, P308+P313, P405, P501
Corrosive to Metals	Category 1	H290	P234, P390, P406
Hazardous to the Aquatic Environment (Chronic)	Category 3	H412	P273, P501

#### 2.2. GHS Label Elements

#### Pictograms:







Signal Word: Danger

#### **Hazard Statements:**

Hazard Number	Hazard Statement
H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H351	Suspected of causing cancer.
H360	May damage fertility or the unborn child.
H412	Harmful to aquatic life with long lasting effects.

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#### **Precautionary Statements:**

Precautionary Statement
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep only in original container.
Do not breathe fumes, mist, vapors, or spray.
Avoid breathing 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.
IF exposed or concerned: Get medical attention.
Immediately call a POISON CENTER or physician.
Call a POISON CENTER or physician if you feel unwell.
Specific treatment (Wash areas of contact with water immediately).
Wash contaminated clothing before reuse.
Absorb spillage to prevent material damage.
Store locked up.
Store in corrosive resistant container with a resistant inner liner.
Dispose of contents in accordance with local, state, federal and international regulations.

### 2.4. Hazards not Otherwise Classified or Covered by GHS

Data not available.

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## **Safety Data Sheet**

### **SECTION 3: Composition / Information on Ingredients**

### 3.1. Components of Substance or Mixture

Chemical Name	Formula	Molecular Weight	CAS Number	Weight%
Water	H <sub>2</sub> O	18.01 g/mol	7732-18-5	72.09
Aluminum Nitrate Nonahydrate	$AI(NO_3)_3 \cdot 9H_2O$	375.13 g/mol	7784-27-2	13.24
Nitric Acid	HNO <sub>3</sub>	63.01 g/mol	7697-37-2	11.02
Magnesium	Mg	24.30 g/mol	7439-95-4	0.95
Lead	Pb	207.2 g/mol	7439-92-1	0.95
Iron	Fe	55.84 g/mol	7439-89-6	0.95
Ammonium Dihydrogen Phosphate	$NH_4H_2PO_4$	97.99 g/mol	7722-76-1	0.35
Calcium Carbonate	CaCO <sub>3</sub>	100.09 g/mol	471-34-1	0.24
Manganese	Mn	54.93 g/mol	7439-96-5	0.10
Ammonium Dichromate	$(NH_4)_2Cr_2O_7$	252.06 g/mol	7789-09-5	< 0.1
Ammonium Metavanadate	NH <sub>4</sub> VO <sub>3</sub>	116.97 g/mol	7803-55-6	< 0.1
Zinc	Zn	65.40 g/mol	7440-66-6	< 0.1
Copper	Cu	63.54 g/mol	7440-50-8	< 0.1
Cobalt	Со	58.93 g/mol	7440-48-4	< 0.1
Cadmium	Cd	112.41 g/mol	7440-43-9	< 0.1
Arsenic	As	74.92 g/mol	7440-38-2	< 0.1
Nickel	Ni	58.69 g/mol	7440-02-0	< 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.

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

necessary.

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#### 4.2. Most Important Symptoms and Effects, Acute and Delayed

Causes severe skin burns and eye damage. Causes serious eye damage. Harmful if inhaled. Suspected of causing cancer. May damage fertility or the unborn child. 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 (Wash areas of contact with water immediately). Irrigate immediately with large quantity of water for at least 15 minutes. Call a physician if irritation develops. Remove to fresh air. Give artificial respiration if necessary. If breathing i difficult, give oxygen. Immediately flush with plenty of water for at least 15 minutes. Remove any contaminated clothing. Wash with soap and water, th flush again with water. Call a physician if irritation develops. Dilute with water or milk. Do not induce vomiting. Call a physician if necessary.

### **SECTION 5: Fire-Fighting Measures**

#### 5.1. Extinguishing Media

Use water or water spray.

#### 5.2. Specific Hazards Arising from the Substance or Mixture

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

#### 5.3. Special Protective Equipment for Firefighters

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

#### **SECTION 6: Accidental Release Measures**

#### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Wear protective gloves and eye protection.

#### 6.2. Cleanup and Containment Methods and Materials

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

### **SECTION 7: Handling and Storage**

#### 7.1. Precautions for Safe Handling and Storage Conditions

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

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### **SECTION 8: Exposure Controls / Personal Protection**

#### **8.1 Control Parameters**

Chemical Name	Limit Type	Country	Exposure Limit	Information Source
Calcium Carbonate (471-34-1)	TWA	USA	"15 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable fraction)" As Calcium carbonate [1317-65-3]	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)
Lead (7439-92-1)	PEL	USA	"30 μg/m³ Action Level (See 29 CFR 1910.1025); 50 μg/m³ TWA" As Lead [7439-92-1]	U.S OSHA - Specifically Regulated Chemicals with PELs
Lead (7439-92-1)	TLV-TWA	USA	"0.05 mg/m³ TWA" As Lead [7439-92-1]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Lead (7439-92-1)	TWA	USA	"50 μg/m³ TWA" As Lead [7439-92-1]	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)
Lead (7439-92-1)	TLV-TWA	USA	0.05 mg/m³ TWA	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Lead (7439-92-1)	TWA	USA	50 μg/m³ TWA	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)
Lead (7439-92-1)	PEL	USA	30 μg/m³ Action Level (See 29 CFR 1910.1025); 50 μg/m³ TWA	U.S OSHA - Specifically Regulated Chemicals with PELs
Lead (7439-92-1)	PEL	USA	"30 μg/m³ Action Level (See 29 CFR 1910.1025, as Pb); 50 μg/m³ TWA (as Pb)" As Lead, inorganic compounds [RR-00538-9]	U.S OSHA - Specifically Regulated Chemicals with PELs
Lead (7439-92-1)	TLV-TWA	USA	"0.05 mg/m³ TWA (as Pb)" As Lead inorganic compounds [RR-00538-9]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Lead (7439-92-1)	TWA	USA	"50 μg/m³ TWA (as Pb)" As Lead, inorganic compounds [RR-00538-9]	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)

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Manganese (7439-96-5)	TLV-TWA	USA	"0.02 mg/m³ TWA	ACGIH - Threshold Limit Values - Time
			(respirable particulate	Weighted Averages (TLV-TWA)
			matter); 0.1 mg/m <sup>3</sup> TWA	
			(inhalable particulate	
			matter)" As Manganese,	
			elemental [7439-96-5]	
Manganese (7439-96-5)	PEL-Ceiling	USA	"5 mg/m³ Ceiling (fume)" As	U.S OSHA - Final PELs - Ceiling
			Manganese [7439-96-5]	Limits
Manganese (7439-96-5)	PEL-Ceiling	USA	"5 mg/m³ Ceiling (fume)" As	U.S OSHA - Final PELs - Ceiling
			Manganese [7439-96-5]	Limits
Manganese (7439-96-5)	TLV-TWA	USA	"0.02 mg/m³ TWA	ACGIH - Threshold Limit Values - Time
			(respirable particulate	Weighted Averages (TLV-TWA)
			matter); 0.1 mg/m <sup>3</sup> TWA	
			(inhalable particulate	
			matter)" As Manganese,	
			elemental [7439-96-5]	
Manganese (7439-96-5)	TLV-TWA	USA	"0.02 mg/m³ TWA	ACGIH - Threshold Limit Values - Time
			(respirable particulate	Weighted Averages (TLV-TWA)
			matter); 0.1 mg/m3 TWA	
			(inhalable particulate	
			matter)" As Manganese,	
			elemental [7439-96-5]	
Manganese (7439-96-5)	PEL-Ceiling	USA	"5 mg/m³ Ceiling (fume)" As	U.S OSHA - Final PELs - Ceiling
. ,	•		Manganese [7439-96-5]	Limits
Manganese (7439-96-5)	TLV-TWA	USA	0.02 mg/m <sup>3</sup> TWA (respirable	ACGIH - Threshold Limit Values - Time
			particulate matter); 0.1	Weighted Averages (TLV-TWA)
			mg/m³ TWA (inhalable	
			particulate matter)	
Manganese (7439-96-5)	PEL-Ceiling	USA	5 mg/m³ Ceiling (fume)	U.S OSHA - Final PELs - Ceiling
				Limits
Manganese (7439-96-5)	TLV-TWA	USA	"0.02 mg/m³ TWA	ACGIH - Threshold Limit Values - Time
			(respirable particulate	Weighted Averages (TLV-TWA)
			matter); 0.1 mg/m <sup>3</sup> TWA	
			(inhalable particulate	
			matter)" As Manganese,	
			elemental [7439-96-5]	
Manganese (7439-96-5)	PEL-Ceiling	USA	"5 mg/m³ Ceiling (fume)" As	U.S OSHA - Final PELs - Ceiling
			Manganese [7439-96-5]	Limits
Manganese (7439-96-5)	PEL-Ceiling	USA	"5 mg/m³ Ceiling (fume)" As	U.S OSHA - Final PELs - Ceiling
			Manganese [7439-96-5]	Limits

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## **Safety Data Sheet**

Manganese (7439-96-5)	TLV-TWA	USA	"0.02 mg/m³ TWA (respirable particulate matter); 0.1 mg/m³ TWA (inhalable particulate matter)" As Manganese, elemental [7439-96-5]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
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)
Nickel (7440-02-0)	TWA	USA	"1 mg/m³ TWA" As Nickel [7440-02-0]	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)
Nickel (7440-02-0)	TLV-TWA	USA	"1.5 mg/m³ TWA (inhalable particulate matter)" As Nickel, elemental [7440-02-0]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Nickel (7440-02-0)	TLV-TWA	USA	"1.5 mg/m³ TWA (inhalable particulate matter)" As Nickel, elemental [7440-02-0]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Nickel (7440-02-0)	TWA	USA	"1 mg/m³ TWA" As Nickel [7440-02-0]	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)
Nickel (7440-02-0)	TLV-TWA	USA	"1.5 mg/m³ TWA (inhalable particulate matter)" As Nickel, elemental [7440-02-0]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Nickel (7440-02-0)	TWA	USA	"1 mg/m³ TWA" As Nickel [7440-02-0]	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)
Nickel (7440-02-0)	TWA	USA	"1 mg/m³ TWA" As Nickel [7440-02-0]	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)
Nickel (7440-02-0)	TLV-TWA	USA	"1.5 mg/m³ TWA (inhalable particulate matter)" As Nickel, elemental [7440-02-0]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Nickel (7440-02-0)	TLV-TWA	USA	"1.5 mg/m³ TWA (inhalable particulate matter)" As Nickel, elemental [7440-02-0]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)

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Nickel (7440-02-0)	TWA	USA	"1 mg/m³ TWA" As Nickel	U.S OSHA - Final PELs - Time
			[7440-02-0]	Weighted Averages (TWAs)
Nickel (7440-02-0)	TLV-TWA	USA	"1.5 mg/m³ TWA (inhalable	ACGIH - Threshold Limit Values - Time
			particulate matter)" As	Weighted Averages (TLV-TWA)
			Nickel, elemental	
			[7440-02-0]	
Nickel (7440-02-0)	TWA	USA	"1 mg/m3 TWA" As Nickel	U.S OSHA - Final PELs - Time
			[7440-02-0]	Weighted Averages (TWAs)
Nickel (7440-02-0)	TLV-TWA	USA	1.5 mg/m³ TWA (inhalable	ACGIH - Threshold Limit Values - Time
			particulate matter)	Weighted Averages (TLV-TWA)
Nickel (7440-02-0)	TWA	USA	1 mg/m³ TWA	U.S OSHA - Final PELs - Time
				Weighted Averages (TWAs)
Nickel (7440-02-0)	TLV-TWA	USA	"1.5 mg/m³ TWA (inhalable	ACGIH - Threshold Limit Values - Time
			particulate matter)" As	Weighted Averages (TLV-TWA)
			Nickel, elemental	
			[7440-02-0]	
Nickel (7440-02-0)	TWA	USA	"1 mg/m³ TWA" As Nickel	U.S OSHA - Final PELs - Time
			[7440-02-0]	Weighted Averages (TWAs)
Arsenic (7440-38-2)	TLV-TWA	USA	"0.01 mg/m³ TWA" As	ACGIH - Threshold Limit Values - Time
			Arsenic, elemental	Weighted Averages (TLV-TWA)
			[7440-38-2]	
Arsenic (7440-38-2)	TLV-TWA	USA	"0.01 mg/m³ TWA" As	ACGIH - Threshold Limit Values - Time
			Arsenic, elemental	Weighted Averages (TLV-TWA)
			[7440-38-2]	
Arsenic (7440-38-2)	TLV-TWA	USA	0.01 mg/m³ TWA	ACGIH - Threshold Limit Values - Time
				Weighted Averages (TLV-TWA)
Arsenic (7440-38-2)	TLV-TWA	USA	"0.01 mg/m³ TWA (as As)"	ACGIH - Threshold Limit Values - Time
			As Arsenic inorganic	Weighted Averages (TLV-TWA)
			compounds [RR-00065-7]	
Arsenic (7440-38-2)	TWA	USA	"10 μg/m³ TWA (as As)" As	U.S OSHA - Final PELs - Time
			Arsenic, inorganic	Weighted Averages (TWAs)
			compounds [RR-00065-7]	
Arsenic (7440-38-2)	PEL	USA	"10 μg/m³ TWA (See 29	U.S OSHA - Specifically Regulated
			CFR 1910.1018; except	Chemicals with PELs
			Arsine, as As); 5 μg/m <sup>3</sup>	
			Action Level (as As)" As	
			Inorganic arsenic	
			compounds [RR-00065-7]	
Arsenic (7440-38-2)	TLV-TWA	USA	"0.01 mg/m³ TWA" As	ACGIH - Threshold Limit Values - Time
,			Arsenic, elemental	Weighted Averages (TLV-TWA)
			[7440-38-2]	· · · · · · · · · · · · · · · · · · ·

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Arsenic (7440-38-2)	TLV-TWA	USA	"0.01 mg/m³ TWA" As Arsenic, elemental [7440-38-2]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
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; 0.002 mg/m³ TWA (respirable particulate matter)	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Cadmium (7440-43-9)	PEL	USA	5 μg/m³ TWA (See 29 CFR 1910.1027); 2.5 μg/m³ Action Level	U.S OSHA - Specifically Regulated Chemicals with PELs
Cadmium (7440-43-9)	TLV-TWA	USA	"0.01 mg/m³ TWA (as Cd); 0.002 mg/m³ TWA (respirable particulate matter, as Cd)" As Cadmium compounds [RR-00559-4]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Cadmium (7440-43-9)	PEL	USA	"5 μg/m³ TWA (See 29 CFR 1910.1027, as Cd); 2.5 μg/m³ Action Level (as Cd)" As Cadmium compounds [RR-00559-4]	U.S OSHA - Specifically Regulated Chemicals with PELs
Cobalt (7440-48-4)	TWA	USA	"0.1 mg/m³ TWA (dust and fume)" As Cobalt metal [7440-48-4]	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)
Cobalt (7440-48-4)	TLV-TWA	USA	"0.02 mg/m³ TWA (inhalable particulate matter)" As Cobalt [7440-48-4]	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 Cobalt [7440-48-4]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)

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Cobalt (7440-48-4)	TWA	USA	"0.1 mg/m3 TWA (dust and	U.S OSHA - Final PELs - Time
,			fume)" As Cobalt metal	Weighted Averages (TWAs)
			[7440-48-4]	
Cobalt (7440-48-4)	TLV-TWA	USA	"0.02 mg/m3 TWA (inhalable	ACGIH - Threshold Limit Values - Time
, ,			particulate matter)" As	Weighted Averages (TLV-TWA)
			Cobalt [7440-48-4]	
Cobalt (7440-48-4)	TWA	USA	"0.1 mg/m³ TWA (dust and	U.S OSHA - Final PELs - Time
			fume)" As Cobalt metal	Weighted Averages (TWAs)
			[7440-48-4]	
Cobalt (7440-48-4)	TLV-TWA	USA	0.02 mg/m³ TWA (inhalable	ACGIH - Threshold Limit Values - Time
			particulate matter)	Weighted Averages (TLV-TWA)
Cobalt (7440-48-4)	TWA	USA	0.1 mg/m³ TWA (dust and	U.S OSHA - Final PELs - Time
			fume)	Weighted Averages (TWAs)
Cobalt (7440-48-4)	TLV-TWA	USA	0.02 mg/m <sup>3</sup> TWA (inhalable	ACGIH - Threshold Limit Values - Time
			particulate matter, as Co)	Weighted Averages (TLV-TWA)
Copper (7440-50-8)	TLV-TWA	USA	"0.2 mg/m³ TWA (fume)" As	ACGIH - Threshold Limit Values - Time
			Copper [7440-50-8]	Weighted Averages (TLV-TWA)
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)
			As Copper [7440-50-8]	
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)
			As Copper [7440-50-8]	
Copper (7440-50-8)	TLV-TWA	USA	"0.2 mg/m³ TWA (fume)" As	ACGIH - Threshold Limit Values - Time
			Copper [7440-50-8]	Weighted Averages (TLV-TWA)
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)
			As Copper [7440-50-8]	
Copper (7440-50-8)	TLV-TWA	USA	"0.2 mg/m³ TWA (fume)" As	ACGIH - Threshold Limit Values - Time
			Copper [7440-50-8]	Weighted Averages (TLV-TWA)
Copper (7440-50-8)	TLV-TWA	USA	"0.2 mg/m³ TWA (fume)" As	ACGIH - Threshold Limit Values - Time
			Copper [7440-50-8]	Weighted Averages (TLV-TWA)
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)
			As Copper [7440-50-8]	
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)
			As Copper [7440-50-8]	
Copper (7440-50-8)	TLV-TWA	USA	"0.2 mg/m³ TWA (fume)" As	ACGIH - Threshold Limit Values - Time
			Copper [7440-50-8]	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/m <sup>3</sup> 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]	
Nitric Acid (7697-37-2)	TLV-STEL	USA	"4 ppm STEL" As Nitric acid	ACGIH - Threshold Limit Values - Short
			[7697-37-2]	Term Exposure Limits (TLV-STEL)
Nitric Acid (7697-37-2)	TLV-TWA	USA	"2 ppm TWA" As Nitric acid	ACGIH - Threshold Limit Values - Time
			[7697-37-2]	Weighted Averages (TLV-TWA)
Nitric Acid (7697-37-2)	TWA	USA	"2 ppm TWA; 5 mg/m <sup>3</sup>	U.S OSHA - Final PELs - Time
			TWA" As Nitric acid	Weighted Averages (TWAs)
			[7697-37-2]	
Nitric Acid (7697-37-2)	TLV-TWA	USA	"2 ppm TWA" As Nitric acid	ACGIH - Threshold Limit Values - Time
			[7697-37-2]	Weighted Averages (TLV-TWA)
Nitric Acid (7697-37-2)	TWA	USA	"2 ppm TWA; 5 mg/m <sup>3</sup>	U.S OSHA - Final PELs - Time
			TWA" As Nitric acid	Weighted Averages (TWAs)
			[7697-37-2]	
Nitric Acid (7697-37-2)	TLV-STEL	USA	"4 ppm STEL" As Nitric acid	ACGIH - Threshold Limit Values - Short
			[7697-37-2]	Term Exposure Limits (TLV-STEL)
Nitric Acid (7697-37-2)	TLV-STEL	USA	4 ppm STEL	ACGIH - Threshold Limit Values - Short
				Term Exposure Limits (TLV-STEL)
Nitric Acid (7697-37-2)	TLV-TWA	USA	2 ppm TWA	ACGIH - Threshold Limit Values - Time
				Weighted Averages (TLV-TWA)
Nitric Acid (7697-37-2)	TWA	USA	2 ppm TWA; 5 mg/m³ TWA	U.S OSHA - Final PELs - Time
				Weighted Averages (TWAs)
Nitric Acid (7697-37-2)	TWA	USA	"2 ppm TWA; 5 mg/m <sup>3</sup>	U.S OSHA - Final PELs - Time
			TWA" As Nitric acid	Weighted Averages (TWAs)
			[7697-37-2]	
Nitric Acid (7697-37-2)	TLV-TWA	USA	"2 ppm TWA" As Nitric acid	ACGIH - Threshold Limit Values - Time
			[7697-37-2]	Weighted Averages (TLV-TWA)
Nitric Acid (7697-37-2)	TLV-STEL	USA	"4 ppm STEL" As Nitric acid	ACGIH - Threshold Limit Values - Short
			[7697-37-2]	Term Exposure Limits (TLV-STEL)
Nitric Acid (7697-37-2)	TWA	USA	"2 ppm TWA; 5 mg/m <sup>3</sup>	U.S OSHA - Final PELs - Time
			TWA" As Nitric acid	Weighted Averages (TWAs)
			[7697-37-2]	

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Nitric Acid (7697-37-2)	TLV-STEL	USA	"4 ppm STEL" As Nitric acid	ACGIH - Threshold Limit Values - Short
			[7697-37-2]	Term Exposure Limits (TLV-STEL)
Nitric Acid (7697-37-2)	TLV-TWA	USA	"2 ppm TWA" As Nitric acid	ACGIH - Threshold Limit Values - Time
			[7697-37-2]	Weighted Averages (TLV-TWA)
Nitric Acid (7697-37-2)	TWA	USA	"2 ppm TWA; 5 mg/m <sup>3</sup>	U.S OSHA - Final PELs - Time
			TWA" As Nitric acid	Weighted Averages (TWAs)
			[7697-37-2]	
Nitric Acid (7697-37-2)	TLV-TWA	USA	"2 ppm TWA" As Nitric acid	ACGIH - Threshold Limit Values - Time
			[7697-37-2]	Weighted Averages (TLV-TWA)
Nitric Acid (7697-37-2)	TLV-STEL	USA	"4 ppm STEL" As Nitric acid	ACGIH - Threshold Limit Values - Short
			[7697-37-2]	Term Exposure Limits (TLV-STEL)
Nitric Acid (7697-37-2)	TLV-TWA	USA	"2 ppm TWA" As Nitric acid	ACGIH - Threshold Limit Values - Time
, ,			[7697-37-2]	Weighted Averages (TLV-TWA)
Nitric Acid (7697-37-2)	TLV-STEL	USA	"4 ppm STEL" As Nitric acid	ACGIH - Threshold Limit Values - Short
,			[7697-37-2]	Term Exposure Limits (TLV-STEL)
Nitric Acid (7697-37-2)	TWA	USA	"2 ppm TWA; 5 mg/m <sup>3</sup>	U.S OSHA - Final PELs - Time
,			TWA" As Nitric acid	Weighted Averages (TWAs)
			[7697-37-2]	
Ammonium Dichromate (7789-09-5)	TWA	USA	"5 μg/m³ TWA" As	U.S OSHA - Final PELs - Time
,			Chromium(VI) compounds	Weighted Averages (TWAs)
			[RR-00026-0]	<b>5</b>
Ammonium Dichromate (7789-09-5)	TLV-STEL	USA	"0.0005 mg/m <sup>3</sup> STEL	ACGIH - Threshold Limit Values - Short
,			(inhalable particulate matter,	Term Exposure Limits (TLV-STEL)
			as Cr(VI))" As Hexavalent	
			chromium inorganic	
			water-soluble compounds	
			[RR-53130-6]	
Ammonium Dichromate (7789-09-5)	PEL-Ceiling	USA	"0.1 mg/m <sup>3</sup> Ceiling (applies	U.S OSHA - Final PELs - Ceiling
,	-		to any operations or sectors	Limits
			for which the Hexavalent	
			Chromium standard [29	
			CFR 1910.1026] is stayed or	
			is otherwise not in effect, as	
			CrO3)" As Chromates	
			[RR-01554-3]	
Ammonium Dichromate (7789-09-5)	PEL	USA	"5 μg/m³ TWA (See 29 CFR	U.S OSHA - Specifically Regulated
( 11 00 0)		-	1910.1026, as Cr); 2.5	Chemicals with PELs
			μg/m³ Action Level (as Cr)"	-
			As Chromium(VI)	
			compounds [RR-00026-0]	

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Ammonium Dichromate (7789-09-5)	TLV-TWA	USA	"0.0002 mg/m³ TWA (inhalable particulate matter, as Cr(VI))" As Hexavalent chromium inorganic water-soluble compounds [RR-53130-6]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Ammonium Dichromate (7789-09-5)	PEL	USA	"5 μg/m³ TWA (See 29 CFR 1910.1026, as Cr); 2.5 μg/m³ Action Level (as Cr)" As Chromium(VI) compounds [RR-00026-0]	U.S OSHA - Specifically Regulated Chemicals with PELs
Ammonium Dichromate (7789-09-5)	TWA	USA	"5 μg/m³ TWA" As Chromium(VI) compounds [RR-00026-0]	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)
Ammonium Dichromate (7789-09-5)	TWA	USA	5 μg/m³ TWA	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)
Ammonium Dichromate (7789-09-5)	PEL	USA	5 μg/m³ TWA (See 29 CFR 1910.1026, as Cr); 2.5 μg/m³ Action Level (as Cr)	U.S OSHA - Specifically Regulated Chemicals with PELs
Ammonium Dichromate (7789-09-5)	PEL-Ceiling	USA	0.1 mg/m³ Ceiling (applies to any operations or sectors for which the Hexavalent Chromium standard [29 CFR 1910.1026] is stayed or is otherwise not in effect, as CrO3)	U.S OSHA - Final PELs - Ceiling Limits
Ammonium Dichromate (7789-09-5)	PEL	USA	"5 μg/m³ TWA (See 29 CFR 1910.1026, as Cr); 2.5 μg/m³ Action Level (as Cr)" As Chromium(VI) compounds [RR-00026-0]	U.S OSHA - Specifically Regulated Chemicals with PELs
Ammonium Dichromate (7789-09-5)	TWA	USA	"5 μg/m³ TWA" As Chromium(VI) compounds [RR-00026-0]	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)
Ammonium Dichromate (7789-09-5)	TWA	USA	"5 µg/m³ TWA" As Chromium(VI) compounds [RR-00026-0]	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)

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Ammonium Dichromate (7789-09-5)	PEL	USA	"5 μg/m³ TWA (See 29 CFR 1910.1026, as Cr); 2.5 μg/m³ Action Level (as Cr)" As Chromium(VI) compounds [RR-00026-0]	U.S OSHA - Specifically Regulated Chemicals with PELs
Ammonium Dichromate (7789-09-5)	PEL	USA	"5 μg/m³ TWA (See 29 CFR 1910.1026, as Cr); 2.5 μg/m³ Action Level (as Cr)" As Chromium(VI) compounds [RR-00026-0]	U.S OSHA - Specifically Regulated Chemicals with PELs
Ammonium Dichromate (7789-09-5)	TWA	USA	"5 μg/m³ TWA" As Chromium(VI) compounds [RR-00026-0]	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)
Ammonium Dichromate (7789-09-5)	TLV-STEL	USA	0.0005 mg/m³ STEL (inhalable particulate matter, as Cr(VI))	ACGIH - Threshold Limit Values - Short Term Exposure Limits (TLV-STEL)
Ammonium Dichromate (7789-09-5)	TLV-TWA	USA	0.0002 mg/m³ TWA (inhalable particulate matter, as Cr(VI))	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)

#### 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: Clear to slight yellow

Physical State: Liquid

Odor: Data not available.

Odor Threshold: Data not available.

pH: acidic

Melting/Freezing Point: Approximately 0°C

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

Flash Point: Data not available.

Evaporation Rate: Data not available.

Flammability: Data not available.

Flammability/Explosive Limits: Data not available.

Vapor Pressure: Data not available.

Vapor Density: Data not available.

Relative Density: 1.05

Solubility: Miscible

Partition Coefficient: Data not available.

Auto-Ignition Temperature: Data not available.

**Decomposition Temperature:** Data not available.

Viscosity: Data not available.

Explosive Properties: Data not available.

Oxidizing Properties: Data not available.

### **SECTION 10: Stability and Reactivity**

#### 10.1. Reactivity and Chemical Stability

Stable under normal conditions of use and storage.

#### 10.2. Possibility of Hazardous Reactions

Data not available.

#### 10.3. Conditions to Avoid and Incompatible Materials

Keep only in original container. Strong bases, metallic powders.

#### 10.4. Hazardous Decomposition Products

Will not occur.

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### **SECTION 11: Toxicological Information**

#### 11.1. Information on Toxicological Effects

#### **Acute Toxicity - Oral Exposure:**

Not applicable.

#### **Acute Toxicity - Dermal Exposure:**

Not applicable.

#### **Acute Toxicity - Inhalation Exposure:**

Harmful 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 if you feel unwell.

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

#### Serious Eye Damage and Irritation:

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

#### **Respiratory Sensitization:**

Not applicable.

#### **Skin Sensitization:**

Not applicable.

#### **Germ Cell Mutagenicity:**

Not applicable.

#### Carcinogenicity:

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

#### **Reproductive Toxicity:**

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

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#### **Specific Target Organ Toxicity from Single Exposure:**

Not applicable.

#### **Specific Target Organ Toxicity from Repeated Exposure:**

Not applicable.

#### **Aspiration Hazard:**

Not applicable.

#### **Additional Toxicology Information:**

Data not available.

### **SECTION 12: Ecological Information**

### 12.1. Ecotoxicity

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

#### 12.2. Persistence and Degradability

Data not available.

#### 12.3. Bioaccumulative Potential

Data not available.

#### 12.4. Mobility in Soil

Data not available.

#### 12.5. Other Adverse Ecological Effects

Data not available.

### **SECTION 13: Disposal Considerations**

#### 13.1. Waste Treatment Methods

Data not available.

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### **SECTION 14: Transportation Information**

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

Sizes: 100 mL

UN Number: UN3264

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

Hazard Class: 8

Packing Group: |||

Hazard Label(s):



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

Sizes: 100 mL

UN Number: UN3264

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

Hazard Class: 8

Packing Group: |||

Hazard Label(s):



14.3 Transportation of Dangerous Goods (TDG, Canada)

Sizes: 100 mL

UN Number: UN3264

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

Hazard Class: 8

Packing Group: |||

Hazard Label(s):



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## **Safety Data Sheet**

### **SECTION 15: Regulatory Information**

#### 15.1. Occupational Safety and Health Administration (OSHA) Hazards

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

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

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

Cadmium (CAS # 7440-43-9): "5  $\mu$ g/m3 TWA (See 29 CFR 1910.1027, as Cd); 2.5  $\mu$ g/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

Ammonium Dichromate (CAS # 7789-09-5): "5 μg/m3 TWA (See 29 CFR 1910.1026, as Cr); 2.5 μg/m3 Action Level (as Cr)" As Chromium(VI) compounds [RR-00026-0]

Ammonium Dichromate (CAS # 7789-09-5): 5 µg/m3 TWA (See 29 CFR 1910.1026, as Cr); 2.5 µg/m3 Action Level (as Cr)

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

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

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

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

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

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

Lead (CAS # 7439-92-1): "10 lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid met released is >100  $\mu$ m); 4.54 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100  $\mu$ m)" As Lead [7439-92-1]

Lead (CAS # 7439-92-1): 10 lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metareleased is >100  $\mu$ m); 4.54 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metareleased is >100  $\mu$ 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)" As Nickel [7440-02-0]

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)

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 metreleased is >100  $\mu$ 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 metreleased is >100  $\mu$ m)" As Arsenic [7440-38-2]

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

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

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

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

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

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

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

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

Manganese (CAS # 7439-96-5): "1.0 % de minimis concentration (includes any unique chemical substance that contains Manganese as part of that chemical's infrastructure, listed under Chemical Category N450)" As Manganese compounds [RR-00602-0]

Manganese (CAS # 7439-96-5): "1.0 % de minimis concentration" As Manganese [7439-96-5]

Manganese (CAS # 7439-96-5): 1.0 % de minimis concentration

Nickel (CAS # 7440-02-0): "0.1 % de minimis concentration (includes any unique chemical substance that contains Nickel as part of that chemical's infrastructure, listed under Chemical Category N495)" As Nickel compounds [RR-00800-4]

Nickel (CAS # 7440-02-0): "0.1 % de minimis concentration" As Nickel [7440-02-0]

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

Arsenic (CAS # 7440-38-2): "0.1 % de minimis concentration (includes any unique chemical substance that contains Arsenic as part of that chemical's infrastructure, listed under Chemical Category N020)" As Arsenic, inorganic compounds [RR-00065-7]

Arsenic (CAS # 7440-38-2): "0.1 % de minimis concentration" As Arsenic [7440-38-2]

Arsenic (CAS # 7440-38-2): 0.1 % de minimis concentration

Cadmium (CAS # 7440-43-9): "0.1 % de minimis concentration (includes any unique chemical substance t

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### **Safety Data Sheet**

#### 15.5. Massachusetts Right-to-Know Substance List

Calcium Carbonate (CAS # 471-34-1): "Present (including dust)" As Calcium carbonate [1317-65-3]

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

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

Magnesium (CAS # 7439-95-4): "Present" As Magnesium [7439-95-4]

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

Manganese (CAS # 7439-96-5): "Present" As Manganese [7439-96-5]

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

Nickel (CAS # 7440-02-0): "Carcinogen; Extraordinarily hazardous" As Nickel [7440-02-0]

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

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

Arsenic (CAS # 7440-38-2): Carcinogen; Extraordinarily hazardous Cadmium (CAS # 7440-43-9): Carcinogen; Extraordinarily hazardous

Cobalt (CAS # 7440-48-4): "Present" As Cobalt [7440-48-4]

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

Copper (CAS # 7440-50-8): "Present" As Copper [7440-50-8]

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

Zinc (CAS # 7440-66-6): "Present" As Zinc [7440-66-6]

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

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

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

Ammonium Dichromate (CAS # 7789-09-5): "Present" As Ammonium bichromate [7789-09-5]

Ammonium Dichromate (CAS # 7789-09-5): Present

Ammonium Metavanadate (CAS # 7803-55-6): "Present" As Ammonium vanadate [7803-55-6]

Ammonium Metavanadate (CAS # 7803-55-6): Present

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#### 15.6. Pennsylvania Right-to-Know Hazardous Substances

Calcium Carbonate (CAS # 471-34-1): "Present" As Limestone [1317-65-3]

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

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

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

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

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

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

Magnesium (CAS # 7439-95-4): "Present" As Magnesium [7439-95-4]

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

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

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

Manganese (CAS # 7439-96-5): "Present" As Manganese [7439-96-5]

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

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

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

Nickel (CAS # 7440-02-0): "Present" As Nickel [7440-02-0]

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

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

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

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

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

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

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

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

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

Cadmium (CAS # 744

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

Calcium Carbonate (CAS # 471-34-1): "sn 4001" As Calcium carbonate [1317-65-3]

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

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

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

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

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

of that chemical structure)" As Lead compounds [RR-00630-4]

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

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

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

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

Magnesium (CAS # 7439-95-4): "sn 1136" As Magnesium [7439-95-4]

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

Manganese (CAS # 7439-96-5): "flammable - third degree" As Manganese [7439-96-5]

Manganese (CAS # 7439-96-5): "SN 1155 500 lb TPQ" As Manganese [7439-96-5]

Manganese (CAS # 7439-96-5): "sn 1155" As Manganese [7439-96-5]

Manganese (CAS # 7439-96-5): "SN 2324 500 lb TPQ (Category Code N450. Includes any unique chemical substance that contains the named metal

as part of that chemical structure)" As Manganese compounds [RR-00602-0]

Manganese (CAS # 7439-96-5): "sn 2324" As Manganese compounds [RR-00602-0]

Manganese (CAS # 7439-96-5): flammable - third degree

Manganese (CAS # 7439-96-5): sn 1155

Manganese (CAS # 7439-96-5): SN 1155 500 lb TPQ

Nickel (CAS # 7440-02-0): "carcinogen" As Nickel [7440-02-0]

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

Nickel (CAS # 7440-02-0): "SN 1341 500 lb TPQ" As Nickel [7440-02-0]

Nickel (CAS # 7440-02-0): "sn 1341" As Nickel [7440-02-0]

Nickel (CAS # 7440-02-0): "SN 2366 500 lb TPQ (Category Code N495. Includes any unique chemical substance that contains the named metal as page 1.00 lb TPQ (Category Code N495). Includes any unique chemical substance that contains the named metal as page 1.00 lb TPQ (Category Code N495).

of that chemical structure)" As Nickel compounds [RR-00800-4]

Nickel (CAS # 7440-02-0): "sn 2366" As Nickel compounds [RR-00800

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#### 15.8. California Proposition 65

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

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

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

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

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

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

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

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

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

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

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

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

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

 $Arsenic (CAS \# 7440-38-2): "0.06 \ \mu g/day \ NSRL \ (inhalation, \ listed \ under \ Arsenic); 10 \ \mu g/day \ NSRL \ (except \ inhalation, \ listed \ under \ Arsenic)" \ As \ Arsenic \ (except \ inhalation, \ listed \ under \ Arsenic)" \ As \ Arsenic \ (except \ inhalation, \ listed \ under \ Arsenic)" \ As \ Arsenic \ (except \ inhalation, \ listed \ under \ Arsenic)" \ As \ Arsenic \ (except \ inhalation, \ listed \ under \ Arsenic)" \ As \ Arsenic \ (except \ inhalation, \ listed \ under \ Arsenic)" \ As \ Arsenic \ (except \ inhalation, \ listed \ under \ Arsenic)" \ As \ Arsenic \ (except \ inhalation, \ listed \ under \ Arsenic)" \ As \ Arsenic \ (except \ inhalation, \ listed \ under \ Arsenic)" \ As \ Arsenic \ (except \ inhalation, \ listed \ under \ Arsenic)" \ As \ Arsenic \ (except \ inhalation, \ listed \ under \ Arsenic)" \ As \ Arsenic \ (except \ inhalation, \ listed \ under \ Arsenic)" \ As \ Arsenic \ (except \ inhalation, \ listed \ under \ Arsenic)" \ As \ Arsenic \ (except \ inhalation, \ listed \ under \ Arsenic)" \ As \ Arsenic \ (except \ inhalation, \ listed \ under \ Arsenic)" \ As \ Arsenic \ (except \ inhalation, \ listed \ under \ Arsenic)" \ As \ Arsenic \ (except \ inhalation, \ listed \ under \ Arsenic)" \ As \ Arsenic \ (except \ inhalation, \ listed \ under \ arsenic)" \ As \ Arsenic \ (except \ inhalation, \ listed \ under \ arsenic)" \ As \ Arsenic \ (except \ inhalation, \ listed \ under \ arsenic)" \ As \ Arsenic \ (except \ inhalation, \ listed \ under \ arsenic)" \ As \ Arsenic \ (except \ inhalation, \ listed \ under \ arsenic)" \ As \ Arsenic \ (except \ inhalation, \ listed \ under \ arsenic)" \ As \ Arsenic \ (except \ inhalation, \ listed \ under \ arsenic)" \ As \ Arsenic \ (except \ inhalation, \ listed \ under \ arsenic)" \ As \ Arsenic \ (except \ inhalation, \ listed \ under \ und$ 

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)

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)" As Cobalt metal [7440-48-4]

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

Ammonium Dichromate (CAS # 7789-09-5): "carcinogen, 2/27/1987" As Chromium hexavalent compounds [RR

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## **Safety Data Sheet**

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

Calcium Carbonate (CAS # 471-34-1): "Present" As Calcium carbonate [1317-65-3] (NDSL)

Calcium Carbonate (CAS # 471-34-1): "Present" As Carbonic acid, calcium salt (1:1) [471-34-1] (DSL)

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

Iron (CAS # 7439-89-6): "Present" As Iron [7439-89-6] (DSL)

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

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

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

Magnesium (CAS # 7439-95-4): "Present" As Magnesium [7439-95-4] (DSL)

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

Manganese (CAS # 7439-96-5): "Present" As Manganese [7439-96-5] (DSL)

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

Nickel (CAS # 7440-02-0): "Present" As Nickel [7440-02-0] (DSL)

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

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

Arsenic (CAS # 7440-38-2): Present (DSL)
Cadmium (CAS # 7440-43-9): Present (DSL)

Cobalt (CAS # 7440-48-4): "Present" As Cobalt [7440-48-4] (DSL)

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

Copper (CAS # 7440-50-8): "Present" As Copper [7440-50-8] (DSL)

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

Zinc (CAS # 7440-66-6): "Present" As Zinc [7440-66-6] (DSL)

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

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

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

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

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

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

Aluminum Nitrate Nonahydrate (CAS # 7784-27-2): "Present" As Aluminum nitrate [13473-90-0] (DSL)

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

Ammonium Dichromate (CAS # 7789-09-5): "Present" As Ammonium bichromate [7789-09-5] (DSL)

Ammonium Dichromate (CAS # 7789-09-5): Present (DSL)

Ammonium Metavanadate (CAS # 7803-55-6): "Present" As Ammonium vanadate [7803-55-6] (DSL)

Ammonium Metavanadate (CAS # 7803-55-6): 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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### **Safety Data Sheet**

Calcium Carbonate (CAS # 471-34-1): "Present (ACTIVE)" As Carbonic acid, calcium salt (1:1) [471-34-1]

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

Iron (CAS # 7439-89-6): "Present (ACTIVE)" As Iron [7439-89-6]

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

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

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

Magnesium (CAS # 7439-95-4): "Present (ACTIVE)" As Magnesium [7439-95-4]

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

Manganese (CAS # 7439-96-5): "Present (ACTIVE)" As Manganese [7439-96-5]

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

Nickel (CAS # 7440-02-0): "Present (ACTIVE)" As Nickel [7440-02-0]

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

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

Arsenic (CAS # 7440-38-2): Present (ACTIVE)
Cadmium (CAS # 7440-43-9): Present (ACTIVE)

Cobalt (CAS # 7440-48-4): "Present (ACTIVE)" As Cobalt [7440-48-4]

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

Copper (CAS # 7440-50-8): "Present (ACTIVE)" As Copper [7440-50-8]

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

Zinc (CAS # 7440-66-6): "Present (ACTIVE)" As Zinc [7440-66-6]

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

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

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

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

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

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

Aluminum Nitrate Nonahydrate (CAS # 7784-27-2): "Present (ACTIVE)" As Nitric acid, aluminum salt (3:1) [13473-90-0]

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

Ammonium Dichromate (CAS # 7789-09-5): "Present (ACTIVE)" As Chromic acid (H2Cr2O7), ammonium salt (1:2) [7789-09-5]

Ammonium Dichromate (CAS # 7789-09-5): Present (ACTIVE)

Ammonium Metavanadate (CAS # 7803-55-6): "Present (ACTIVE)" As Vanadate (VO31-), ammonium (1:1) [7803-55-6]

Ammonium Metavanadate (CAS # 7803-55-6): Presen

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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)

Calcium Carbonate (CAS # 471-34-1): "207-439-9" As Calcium carbonate [471-34-1]

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

Iron (CAS # 7439-89-6): "231-096-4" As Iron [7439-89-6]

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

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

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

Magnesium (CAS # 7439-95-4): "231-104-6" As Magnesium [7439-95-4]

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

Manganese (CAS # 7439-96-5): "231-105-1" As Manganese [7439-96-5]

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

Nickel (CAS # 7440-02-0): "231-111-4" As Nickel [7440-02-0]

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

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

Arsenic (CAS # 7440-38-2): 231-148-6 Cadmium (CAS # 7440-43-9): 231-152-8

Cobalt (CAS # 7440-48-4): "231-158-0" As Cobalt [7440-48-4]

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

Copper (CAS # 7440-50-8): "231-159-6" As Copper [7440-50-8]

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

Zinc (CAS # 7440-66-6): "231-175-3" As Zinc [7440-66-6]

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

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

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

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

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

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

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

Aluminum Nitrate Nonahydrate (CAS # 7784-27-2): "236-751-8" As Aluminium nitrate [13473-90-0]

Aluminum Nitrate Nonahydrate (CAS # 7784-27-2): 236-751-8

Ammonium Dichromate (CAS # 7789-09-5): "232-143-1" As Ammonium dichromate [7789-09-5]

Ammonium Dichromate (CAS # 7789-09-5): 232-143-1

Ammonium Metavanadate (CAS # 7803-55-6): "232-261-3" As Ammonium trioxovanadate [7803-55-6]

Ammonium Metavanadate (CAS # 7803-55-6): 232-261-3

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#### **SECTION 16: Other Information**

### 16.1. Full Text of Hazard Statements and Precautionary Statements

May be corrosive to metals. Causes severe skin burns and eye damage. Harmful if inhaled. Suspected of causing cancer. May damage fertility or the unborn child. Harmful to aquatic life with long lasting effects.

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep only in original container. Do not breathe fumes, mist, vapors, or spray. Wash arms, hands and face thoroughly after handling. 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. IF exposed or concerned: Get medical attention. Specific treatment (Wash areas of contact with water immediately). Wash contaminated clothing before reuse. Absorb spillage to prevent material damage.

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

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

#### 16.2. Miscellaneous Hazard Classes

Canadian Carcinogenicity Hazard Class: Not Applicable.

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

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

Biohazardous Infectious Materials Hazard Class: Not Applicable.

#### 16.3. National Fire Protection Association (NFPA) Rating

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



#### 16.4. Document Revision

Last Revision Date: 2025-02-01

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### **DISCLAIMER**

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration of its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and RICCA CHEMICAL COMPANY assumes no legal responsibility or liability whatsoever resulting from its use.

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