

Classified According to OSHA Hazard Communication Standard (HCS)

SECTION 1: Identification

1.1. Product Identifier

Trade Name or Designation: Low Level Standard

Product Number: RCELLOW0

Other Identifying Product Numbers: RCELLOW0-500N

1.2. Recommended Use and Restrictions on Use

Calibration standard for ICP

1.3. Details of the Supplier of the Safety Data Sheet

Company: Ricca Chemical Company Address: 448 West Fork Drive

Arlington, TX 76012 USA

Telephone: 888-467-4222

1.4. Emergency Telephone Number (24 hours)

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

SECTION 2: Hazard(s) Identification

2.1. Classification of the Substance or Mixture

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

		Hazard	
Hazard Class	Category	Statements:	Precautionary Statements:
Skin Corrosion / Irritation	Category 1	H314	P260, P264, P280, P301+P330+P331,
			P303+P361+P353, P363, P304+P340, P310,
			P321, P305+P351+P338, P405, P501
Eye Damage / Irritation	Category 2	H319	P264, P280, P305+P351+P338, P337+P313

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2.2. GHS Label Elements

Pictograms:





Signal Word: Danger

Hazard Statements:

Hazard Number	Hazard Statement
H314	Causes severe skin burns and eye damage.
H319	Causes serious eye irritation.

Precautionary Statements:

Precautionary Number	Precautionary Statement			
P260	Do not breathe fumes, mist, vapors, or spray.			
P264	Wash arms, hands and face thoroughly after handling.			
P280	Wear protective gloves and eye protection.			
P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.			
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.			
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.			
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy			
	to do. Continue rinsing.			
P310	Immediately call a POISON CENTER or physician.			
P321	Specific treatment (Wash areas of contact with water immediately).			
P337+P313	If eye irritation persists: Get medical attention.			
P363	Wash contaminated clothing before reuse.			
P405	Store locked up.			
P501	Dispose of contents in accordance with local, state, federal and international regulations.			

2.4. Hazards not Otherwise Classified or Covered by GHS

Data not available.

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SECTION 3: Composition / Information on Ingredients

3.1. Components of Substance or Mixture

Chemical Name	Formula	Molecular Weight	CAS Number	Weight%
Water	H₂O	18.01 g/mol	7732-18-5	97.96
Nitric Acid	HNO₃	63.01 g/mol	7697-37-2	1.98
Aluminum Nitrate Nonahydrate	$AI(NO_3)_3 \cdot 9H_2O$	375.13 g/mol	7784-27-2	< 0.1
Hydrochloric Acid	HCI	36.46 g/mol	7647-01-0	< 0.1
Iron	Fe	55.84 g/mol	7439-89-6	< 0.1
Chromium Nitrate Nonahydrate	$Cr(NO_3)_3 \cdot 9H_2O$	238.01 g/mol	7789-02-8	< 0.1
Selenium	Se	78.95 g/mol	7782-49-2	< 0.1
Zinc	Zn	65.40 g/mol	7440-66-6	< 0.1
Copper	Cu	63.54 g/mol	7440-50-8	< 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.

4.2. Most Important Symptoms and Effects, Acute and Delayed

Causes severe skin burns and eye damage. Causes serious eye irritation.

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. Flush with plenty of water for at least 15 minutes. Call a physician if irritation develops. Dilute with water or milk. Do not induce vomiting. Call a physician if necessary.

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SECTION 5: Fire-Fighting Measures

5.1. Extinguishing Media

Use water or water spray.

5.2. Specific Hazards Arising from the Substance or Mixture

Not combustible, but substance is an oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition. Can react with metals to release flammable hydrogen gas. May react explosively with combustible organic or readily oxidizable materials such as: alcohols, turpentine, charcoal, organic refuse, metal powder, hydrogen sulfide, etc.

5.3. Special Protective Equipment for Firefighters

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

SECTION 6: Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Wear protective gloves and eye protection.

6.2. Cleanup and Containment Methods and Materials

Cover the spill with Sodium Carbonate or a soda ash-slaked lime mixture (50:50). Mix and add water to form slurry. Decant the liquid to the drain with excess water. Treat the solid residue as normal refuse. Wash site with soda ash solution. Always dispose of in accordance with local regulations.

SECTION 7: Handling and Storage

7.1. Precautions for Safe Handling and Storage Conditions

Store locked up. As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage.

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SECTION 8: Exposure Controls / Personal Protection

8.1 Control Parameters

Chemical Name	Limit Type	Country	Exposure Limit	Information Source
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)	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)" 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)	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)	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)" As	Weighted Averages (TLV-TWA)
			Nickel, elemental	
			[7440-02-0]	

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Niekal (7440 00 0)	T\\\/\	LICA	"1 mg/m³ TWA" As Nickel	U.S OSHA - Final PELs - Time
Nickel (7440-02-0)	TWA	USA	[7440-02-0]	
Nickel (7440-02-0)	TLV-TWA	USA	1.5 mg/m ³ TWA (inhalable	Weighted Averages (TWAs) ACGIH - Threshold Limit Values - Time
INICKEI (1440-02-0)	ILV-IVVA	USA	particulate matter)	Weighted Averages (TLV-TWA)
Nickel (7440-02-0)	TWA	USA	1 mg/m³ TWA	U.S OSHA - Final PELs - Time
INICKEI (1440-02-0)	IVVA	USA	Tillg/IIIs TWA	Weighted Averages (TWAs)
Nickel (7440-02-0)	TLV-TWA	USA	"1.5 mg/m³ TWA (inhalable	ACGIH - Threshold Limit Values - Time
NICKEI (1440-02-0)	ILV-IVVA	UUA	particulate matter)" As	Weighted Averages (TLV-TWA)
			Nickel, elemental	Weighted Averages (TEV TWA)
			[7440-02-0]	
Nickel (7440-02-0)	TWA	USA	"1 mg/m³ TWA" As Nickel	U.S OSHA - Final PELs - Time
THIOROT (1 440 02 0)	1 **/	00/1	[7440-02-0]	Weighted Averages (TWAs)
Copper (7440-50-8)	TLV-TWA	USA	"0.2 mg/m³ TWA (fume)" As	ACGIH - Threshold Limit Values - Time
		30/1	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]	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
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)
Copper (7440-50-8)	TWA	USA	0.1 mg/m³ TWA (fume); 1	U.S OSHA - Final PELs - Time
			mg/m³ TWA (dust and mist)	Weighted Averages (TWAs)
Copper (7440-50-8)	TLV-TWA	USA	0.2 mg/m³ TWA (fume)	ACGIH - Threshold Limit Values - Time
				Weighted Averages (TLV-TWA)

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Copper (7440-50-8)	TLV-TWA	USA	"1 mg/m³ TWA (dust and mist, as Cu)" As Copper compounds [RR-00595-8]	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)" As Copper	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Hydrochloric Acid (7647-01-0)	PEL-Ceiling	USA	compounds [RR-00595-8] "5 ppm Ceiling; 7 mg/m³ Ceiling" As Hydrogen chloride [7647-01-0]	U.S OSHA - Final PELs - Ceiling Limits
Hydrochloric Acid (7647-01-0)	TLV-Ceiling	USA	"2 ppm Ceiling" As Hydrogen chloride [7647-01-0]	ACGIH - Threshold Limit Values - Ceilings (TLV-C)
Hydrochloric Acid (7647-01-0)	TLV-Ceiling	USA	"2 ppm Ceiling" As Hydrogen chloride [7647-01-0]	ACGIH - Threshold Limit Values - Ceilings (TLV-C)
Hydrochloric Acid (7647-01-0)	PEL-Ceiling	USA	"5 ppm Ceiling; 7 mg/m ³ Ceiling" As Hydrogen chloride [7647-01-0]	U.S OSHA - Final PELs - Ceiling Limits
Hydrochloric Acid (7647-01-0)	TLV-Ceiling	USA	"2 ppm Ceiling" As Hydrogen chloride [7647-01-0]	ACGIH - Threshold Limit Values - Ceilings (TLV-C)
Hydrochloric Acid (7647-01-0)	PEL-Ceiling	USA	"5 ppm Ceiling; 7 mg/m³ Ceiling" As Hydrogen chloride [7647-01-0]	U.S OSHA - Final PELs - Ceiling Limits
Hydrochloric Acid (7647-01-0)	TLV-Ceiling	USA	"2 ppm Ceiling" As Hydrogen chloride [7647-01-0]	ACGIH - Threshold Limit Values - Ceilings (TLV-C)
Hydrochloric Acid (7647-01-0)	PEL-Ceiling	USA	"5 ppm Ceiling; 7 mg/m³ Ceiling" As Hydrogen chloride [7647-01-0]	U.S OSHA - Final PELs - Ceiling Limits
Hydrochloric Acid (7647-01-0)	TLV-Ceiling	USA	2 ppm Ceiling	ACGIH - Threshold Limit Values - Ceilings (TLV-C)
Hydrochloric Acid (7647-01-0)	PEL-Ceiling	USA	5 ppm Ceiling; 7 mg/m³ Ceiling	U.S OSHA - Final PELs - Ceiling Limits
Hydrochloric Acid (7647-01-0)	TLV-Ceiling	USA	"2 ppm Ceiling" As Hydrogen chloride [7647-01-0]	ACGIH - Threshold Limit Values - Ceilings (TLV-C)
Hydrochloric Acid (7647-01-0)	PEL-Ceiling	USA	"5 ppm Ceiling; 7 mg/m³ Ceiling" As Hydrogen chloride [7647-01-0]	U.S OSHA - Final PELs - Ceiling Limits

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Hydrochloric Acid (7647-01-0)	TLV-Ceiling	USA	"2 ppm Ceiling" As	ACGIH - Threshold Limit Values -
			Hydrogen chloride	Ceilings (TLV-C)
			[7647-01-0]	
Hydrochloric Acid (7647-01-0)	PEL-Ceiling	USA	"5 ppm Ceiling; 7 mg/m ³	U.S OSHA - Final PELs - Ceiling
			Ceiling" As Hydrogen	Limits
			chloride [7647-01-0]	
Hydrochloric Acid (7647-01-0)	PEL-Ceiling	USA	"5 ppm Ceiling; 7 mg/m ³	U.S OSHA - Final PELs - Ceiling
			Ceiling" As Hydrogen	Limits
			chloride [7647-01-0]	
Hydrochloric Acid (7647-01-0)	TLV-Ceiling	USA	"2 ppm Ceiling" As	ACGIH - Threshold Limit Values -
			Hydrogen chloride	Ceilings (TLV-C)
			[7647-01-0]	
Nitric Acid (7697-37-2)	TLV-STEL	USA	"4 ppm STEL" As Nitric acid	ACGIH - Threshold Limit Values - Short
			[7697-37-2]	Term Exposure Limits (TLV-STEL)
Nitric Acid (7697-37-2)	TLV-TWA	USA	"2 ppm TWA" As Nitric acid	ACGIH - Threshold Limit Values - Time
			[7697-37-2]	Weighted Averages (TLV-TWA)
Nitric Acid (7697-37-2)	TWA	USA	"2 ppm TWA; 5 mg/m ³	U.S OSHA - Final PELs - Time
			TWA" As Nitric acid	Weighted Averages (TWAs)
			[7697-37-2]	
Nitric Acid (7697-37-2)	TLV-TWA	USA	"2 ppm TWA" As Nitric acid	ACGIH - Threshold Limit Values - Time
			[7697-37-2]	Weighted Averages (TLV-TWA)
Nitric Acid (7697-37-2)	TWA	USA	"2 ppm TWA; 5 mg/m ³	U.S OSHA - Final PELs - Time
			TWA" As Nitric acid	Weighted Averages (TWAs)
			[7697-37-2]	
Nitric Acid (7697-37-2)	TLV-STEL	USA	"4 ppm STEL" As Nitric acid	ACGIH - Threshold Limit Values - Short
			[7697-37-2]	Term Exposure Limits (TLV-STEL)
Nitric Acid (7697-37-2)	TLV-STEL	USA	4 ppm STEL	ACGIH - Threshold Limit Values - Short
				Term Exposure Limits (TLV-STEL)
Nitric Acid (7697-37-2)	TLV-TWA	USA	2 ppm TWA	ACGIH - Threshold Limit Values - Time
				Weighted Averages (TLV-TWA)
Nitric Acid (7697-37-2)	TWA	USA	2 ppm TWA; 5 mg/m ³ TWA	U.S OSHA - Final PELs - Time
				Weighted Averages (TWAs)
Nitric Acid (7697-37-2)	TWA	USA	"2 ppm TWA; 5 mg/m ³	U.S OSHA - Final PELs - Time
			TWA" As Nitric acid	Weighted Averages (TWAs)
			[7697-37-2]	
Nitric Acid (7697-37-2)	TLV-TWA	USA	"2 ppm TWA" As Nitric acid	ACGIH - Threshold Limit Values - Time
			[7697-37-2]	Weighted Averages (TLV-TWA)
Nitric Acid (7697-37-2)	TLV-STEL	USA	"4 ppm STEL" As Nitric acid	ACGIH - Threshold Limit Values - Short
			[7697-37-2]	Term Exposure Limits (TLV-STEL)

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Nitric Acid (7697-37-2)	TWA	USA	"2 ppm TWA; 5 mg/m ³	U.S OSHA - Final PELs - Time
111111071010 (7007 07 2)	11171	00/1	TWA" As Nitric acid	Weighted Averages (TWAs)
			[7697-37-2]	rroiginos riciagos (rimio)
Nitric Acid (7697-37-2)	TLV-STEL	USA	"4 ppm STEL" As Nitric acid	ACGIH - Threshold Limit Values - Short
,			[7697-37-2]	Term Exposure Limits (TLV-STEL)
Nitric Acid (7697-37-2)	TLV-TWA	USA	"2 ppm TWA" As Nitric acid	ACGIH - Threshold Limit Values - Time
,			[7697-37-2]	Weighted Averages (TLV-TWA)
Nitric Acid (7697-37-2)	TWA	USA	"2 ppm TWA; 5 mg/m ³	U.S OSHA - Final PELs - Time
			TWA" As Nitric acid	Weighted Averages (TWAs)
			[7697-37-2]	
Nitric Acid (7697-37-2)	TLV-TWA	USA	"2 ppm TWA" As Nitric acid	ACGIH - Threshold Limit Values - Time
			[7697-37-2]	Weighted Averages (TLV-TWA)
Nitric Acid (7697-37-2)	TLV-STEL	USA	"4 ppm STEL" As Nitric acid	ACGIH - Threshold Limit Values - Short
			[7697-37-2]	Term Exposure Limits (TLV-STEL)
Nitric Acid (7697-37-2)	TLV-TWA	USA	"2 ppm TWA" As Nitric acid	ACGIH - Threshold Limit Values - Time
			[7697-37-2]	Weighted Averages (TLV-TWA)
Nitric Acid (7697-37-2)	TLV-STEL	USA	"4 ppm STEL" As Nitric acid	ACGIH - Threshold Limit Values - Short
			[7697-37-2]	Term Exposure Limits (TLV-STEL)
Nitric Acid (7697-37-2)	TWA	USA	"2 ppm TWA; 5 mg/m ³	U.S OSHA - Final PELs - Time
			TWA" As Nitric acid	Weighted Averages (TWAs)
			[7697-37-2]	
Selenium (7782-49-2)	TLV-TWA	USA	"0.2 mg/m³ TWA" As	ACGIH - Threshold Limit Values - Time
			Selenium [7782-49-2]	Weighted Averages (TLV-TWA)
Selenium (7782-49-2)	TLV-TWA	USA	"0.2 mg/m³ TWA" As	ACGIH - Threshold Limit Values - Time
			Selenium [7782-49-2]	Weighted Averages (TLV-TWA)
Selenium (7782-49-2)	TLV-TWA	USA	"0.2 mg/m³ TWA" As	ACGIH - Threshold Limit Values - Time
			Selenium [7782-49-2]	Weighted Averages (TLV-TWA)
Selenium (7782-49-2)	TLV-TWA	USA	"0.2 mg/m³ TWA" As	ACGIH - Threshold Limit Values - Time
			Selenium [7782-49-2]	Weighted Averages (TLV-TWA)
Selenium (7782-49-2)	TLV-TWA	USA	"0.2 mg/m³ TWA" As	ACGIH - Threshold Limit Values - Time
			Selenium [7782-49-2]	Weighted Averages (TLV-TWA)
Selenium (7782-49-2)	TLV-TWA	USA	"0.2 mg/m³ TWA" As	ACGIH - Threshold Limit Values - Time
			Selenium [7782-49-2]	Weighted Averages (TLV-TWA)
Selenium (7782-49-2)	TLV-TWA	USA	"0.2 mg/m³ TWA" As	ACGIH - Threshold Limit Values - Time
			Selenium [7782-49-2]	Weighted Averages (TLV-TWA)
Selenium (7782-49-2)	TLV-TWA	USA	"0.2 mg/m³ TWA" As	ACGIH - Threshold Limit Values - Time
			Selenium [7782-49-2]	Weighted Averages (TLV-TWA)
Selenium (7782-49-2)	TLV-TWA	USA	"0.2 mg/m³ TWA" As	ACGIH - Threshold Limit Values - Time
			Selenium [7782-49-2]	Weighted Averages (TLV-TWA)
Selenium (7782-49-2)	TLV-TWA	USA	"0.2 mg/m³ TWA" As	ACGIH - Threshold Limit Values - Time
			Selenium [7782-49-2]	Weighted Averages (TLV-TWA)

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Selenium (7782-49-2)	TLV-TWA	USA	"0.2 mg/m³ TWA" As	ACGIH - Threshold Limit Values - Time
			Selenium [7782-49-2]	Weighted Averages (TLV-TWA)
Selenium (7782-49-2)	TLV-TWA	USA	"0.2 mg/m³ TWA" As	ACGIH - Threshold Limit Values - Time
			Selenium [7782-49-2]	Weighted Averages (TLV-TWA)
Selenium (7782-49-2)	TLV-TWA	USA	0.2 mg/m³ TWA	ACGIH - Threshold Limit Values - Time
				Weighted Averages (TLV-TWA)
Selenium (7782-49-2)	TLV-TWA	USA	"0.2 mg/m³ TWA" As	ACGIH - Threshold Limit Values - Time
			Selenium [7782-49-2]	Weighted Averages (TLV-TWA)
Selenium (7782-49-2)	TLV-TWA	USA	"0.2 mg/m³ TWA (as Se)" As	ACGIH - Threshold Limit Values - Time
			Selenium compounds	Weighted Averages (TLV-TWA)
			[RR-00612-2]	
Selenium (7782-49-2)	TWA	USA	"0.2 mg/m³ TWA (as Se)" As	U.S OSHA - Final PELs - Time
			Selenium compounds	Weighted Averages (TWAs)
			[RR-00612-2]	
Chromium Nitrate Nonahydrate (7789-(TWA		USA	"0.5 mg/m³ TWA (as Cr)" As	U.S OSHA - Final PELs - Time
			Chromium(III) compounds	Weighted Averages (TWAs)
			[RR-03889-1]	
Chromium Nitrate Nonahydrate (7789-(TWA		USA	"0.5 mg/m³ TWA (as Cr)" As	U.S OSHA - Final PELs - Time
			Chromium(III) compounds	Weighted Averages (TWAs)
			[RR-03889-1]	
Chromium Nitrate Nonahydrate	(7789-(TWA	USA	0.5 mg/m³ TWA (as Cr)	U.S OSHA - Final PELs - Time
				Weighted Averages (TWAs)
Chromium Nitrate Nonahydrate	(7789-(TWA	USA	"0.5 mg/m³ TWA (as Cr)" As	U.S OSHA - Final PELs - Time
			Chromium(III) compounds	Weighted Averages (TWAs)
			[RR-03889-1]	
Chromium Nitrate Nonahydrate	(7789-(TWA	USA	"0.5 mg/m³ TWA (as Cr)" As	U.S OSHA - Final PELs - Time
			Chromium(III) compounds	Weighted Averages (TWAs)
			[RR-03889-1]	

8.2. Exposure Controls

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

Respiratory Protection: Normal room ventilation is adequate.

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

8.3. Personal Protective Equipment

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

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SECTION 9: Physical and Chemical Properties

9.1. Basic Physical and Chemical Properties

Appearance: Colorless liquid

Physical State: Liquid

Odor: Odorless

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: 1.02

Solubility: Miscible

Partition Coefficient: Data not available.

Auto-Ignition Temperature: Data not available.

Decomposition Temperature: Data not available.

Viscosity: Data not available.

Explosive Properties: Data not available.

Oxidizing Properties: Data not available.

SECTION 10: Stability and Reactivity

10.1. Reactivity and Chemical Stability

Stable under normal conditions of use and storage.

10.2. Possibility of Hazardous Reactions

Data not available.

10.3. Conditions to Avoid and Incompatible Materials

Strong bases, metallic powders, Carbides, Hydrogen Sulfide, Turpentine and combustible organics.

10.4. Hazardous Decomposition Products

May emit irritating fumes when heated to decomposition.

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SECTION 11: Toxicological Information

11.1. Information on Toxicological Effects

Acute Toxicity - Oral Exposure:

Not applicable.

Acute Toxicity - Dermal Exposure:

Not applicable.

Acute Toxicity - Inhalation Exposure:

Not applicable.

Acute Toxicity - Other Information:

LDLo, Oral, Human: 430 mg/kg (Nitric Acid), details of toxic effects not reported other than lethal dose value.

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 irritation. Wash arms, hands and face thoroughly after handling. Wear protective gloves and eye protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

Respiratory Sensitization:

Not applicable.

Skin Sensitization:

Not applicable.

Germ Cell Mutagenicity:

Not applicable.

Carcinogenicity:

Not applicable.

Reproductive Toxicity:

Not applicable.

Specific Target Organ Toxicity from Single Exposure:

Not applicable.

Specific Target Organ Toxicity from Repeated Exposure:

Not applicable.

Aspiration Hazard:

Not applicable.

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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.

SECTION 14: Transportation Information

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

Not regulated according to DOT Regulations.

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

Not regulated according to IATA Dangerous Goods Regulations.

14.3 Transportation of Dangerous Goods (TDG, Canada)

Not regulated according to TDG Regulations.

SECTION 15: Regulatory Information

15.1. Occupational Safety and Health Administration (OSHA) Hazards

Not listed.

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

Hydrochloric Acid (CAS # 7647-01-0): "500 lb TPQ (gas only)" As Hydrogen chloride [7647-01-0]

Hydrochloric Acid (CAS # 7647-01-0): "5000 lb EPCRA RQ (gas only)" As Hydrogen chloride [7647-01-0]

Hydrochloric Acid (CAS # 7647-01-0): 500 lb TPQ (gas only)

Hydrochloric Acid (CAS # 7647-01-0): 5000 lb EPCRA RQ (gas only)

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

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

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

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

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

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)" 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 $>100 \mu m$)

Copper (CAS # 7440-50-8): "5000 lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solic metal released is >100 µm); 2270 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solic metal released is >100 µm)" As Copper [7440-50-8]

Copper (CAS # 7440-50-8): 5000 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 $>100 \mu m$); 2270 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 $>100 \mu m$)

Zinc (CAS # 7440-66-6): "454 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid me released is >100 μ m); 1000 lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 μ m)" As Zinc [7440-66-6]

Zinc (CAS # 7440-66-6): 454 kg 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); 1000 lb final RQ (no reporting of releases of this hazardous substance is required if the dia

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

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

Copper (CAS # 7440-50-8): "1.0 % de minimis concentration (includes any unique chemical substance that contains Copper as part of that chemical's infrastructure except for CAS numbers 147-14-8, 1328-53-6, or 14302-13-7, or copper phthalocyanine compounds that are substituted with only Hydrogen and/or Bromine and/or Chlorine that meet the molecular structure specified within the regulation, listed under Chemical Category N100)" As Copper compounds [RR-00595-8]

Copper (CAS # 7440-50-8): "1.0 % de minimis concentration" As Copper [7440-50-8]

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

Zinc (CAS # 7440-66-6): "1.0 % de minimis concentration (dust or fume only)" As Zinc [7440-66-6]

Zinc (CAS # 7440-66-6): "1.0 % de minimis concentration (includes any unique chemical substance that contains Zinc as part of that chemical's infrastructure, listed under Chemical Category N982)" As Zinc compounds [RR-00578-7]

Zinc (CAS # 7440-66-6): 1.0 % de minimis concentration (dust or fume only)

Hydrochloric Acid (CAS # 7647-01-0): "1.0 % de minimis concentration (acid aerosols including mists, vapors, gas, fog, and other airborne forms of an particle size)" As Hydrochloric acid [7647-01-0]

Hydrochloric Acid (CAS # 7647-01-0): 1.0 % de minimis concentration (acid aerosols including mists, vapors, gas, fog, and other airborne forms of any particle size)

Nitric Acid (CAS # 7697-37-2): "1.0 % de minimis concentration" As Nitric acid [7697-37-2]

Nitric Acid (CAS # 7697-37-2): 1.0 % de minimis concentration

Selenium (CAS # 7782-49-2): "1.0 % de minimis concentration (includes any unique chemical substance that conta

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15.5. Massachusetts Right-to-Know Substance List

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

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

Hydrochloric Acid (CAS # 7647-01-0): "Extraordinarily hazardous" As Hydrochloric acid [7647-01-0]

Hydrochloric Acid (CAS # 7647-01-0): Extraordinarily hazardous

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

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

Selenium (CAS # 7782-49-2): "Present" As Selenium [7782-49-2]

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

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15.6. Pennsylvania Right-to-Know Hazardous Substances

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

Copper (CAS # 7440-50-8): "Environmental hazard (dust; fume; metal)" As Copper [7440-50-8]

Copper (CAS # 7440-50-8): "Environmental hazard" As Copper compounds [RR-00595-8]

Copper (CAS # 7440-50-8): "Present (dust; fume; metal)" As Copper [7440-50-8]

Copper (CAS # 7440-50-8): "Present" As Copper compounds [RR-00595-8]

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

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

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

Zinc (CAS # 7440-66-6): "Environmental hazard" As Zinc compounds [RR-00578-7]

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

Zinc (CAS # 7440-66-6): "Present" As Zinc compounds [RR-00578-7]

Zinc (CAS # 7440-66-6): Environmental hazard

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

Hydrochloric Acid (CAS # 7647-01-0): "Environmental hazard" As Hydrochloric acid [7647-01-0]

Hydrochloric Acid (CAS # 7647-01-0): "Present" As Hydrochloric acid [7647-01-0]

Hydrochloric Acid (CAS # 7647-01-0): Environmental hazard

Hydrochloric Acid (CAS # 7647-01-0): Present

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

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

Nitric Acid (CAS # 7697-37-2): Environmental hazard

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

Water (CAS # 7732-18-5): "Present" As Ethyl alcohol and water [RR-00802-6]

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

Selenium (CAS # 7782-49-2): "Environmental hazard" As Selenium [7782-49-2]

Selenium (CAS # 7782-49-2): "Environmental hazard" As

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

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-00800-4]

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

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

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

Copper (CAS # 7440-50-8): "SN 0528 500 lb TPQ" As Copper [7440-50-8]

Copper (CAS # 7440-50-8): "sn 0528" As Copper [7440-50-8]

Copper (CAS # 7440-50-8): "SN 2215 500 lb TPQ (except C.I. Pigment Blue 15 (CAS 147-14-8), C.I. Pigment Green 7 (CAS 1328-53-6), and C.I.

Pigment Green 36 (CAS 14302-13-7), and Copper phthalocyanine compounds that are substituted with only Hydrogen, and/or Chlorine, and/or

Bromine, Category Code N100. Includes any unique chemical substance that contains the named metal as part of that chemical structure)" As Copper compounds [RR-00595-8]

Copper (CAS # 7440-50-8): "sn 2215" As Copper compounds [RR-00595-8]

Copper (CAS # 7440-50-8): sn 0528

Copper (CAS # 7440-50-8): SN 0528 500 lb TPQ

Zinc (CAS # 7440-66-6): "flammable - third degree" As Zinc [7440-66-6]

Zinc (CAS # 7440-66-6): "SN 2021 500 lb TPQ (dust or fume)" As Zinc [7440-66-6]

Zinc (CAS # 7440-66-6): "sn 2021" As Zinc [7440-66-6]

Zinc (CAS # 7440-66-6): "SN 3012 500 lb TPQ (Category Code N982. Includes any unique chemical substance that contains the named metal as part

that chemical structure)" As Zinc compounds [RR-00578-7]

Zinc (CAS # 7440-66-6): "sn 3012" As Zinc compounds [RR-00578-7]

Zinc (CAS # 7440-66-6): flammable - third degree

Zinc (CAS # 7440-66-6): sn 2021

Zinc (CAS # 7440-66-6): SN 2021 500 lb TPQ (dust or fume)

Hydrochloric Acid (CA

15.8. California Proposition 65

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)

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

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

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

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

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

Hydrochloric Acid (CAS # 7647-01-0): "Present" As Hydrogen chloride [7647-01-0] (DSL)

Hydrochloric Acid (CAS # 7647-01-0): Present (DSL)

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

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

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

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

Selenium (CAS # 7782-49-2): "Present" As Selenium [7782-49-2] (DSL)

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

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

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

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

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

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

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

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

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

Hydrochloric Acid (CAS # 7647-01-0): "Present (ACTIVE)" As Hydrochloric acid [7647-01-0]

Hydrochloric Acid (CAS # 7647-01-0): Present (ACTIVE)

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

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

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

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

Selenium (CAS # 7782-49-2): "Present (ACTIVE)" As Selenium [7782-49-2]

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

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

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

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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)

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

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

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

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

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

Hydrochloric Acid (CAS # 7647-01-0): "231-595-7" As Hydrogen chloride [7647-01-0]

Hydrochloric Acid (CAS # 7647-01-0): 231-595-7

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

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

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

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

Selenium (CAS # 7782-49-2): "231-957-4" As Selenium [7782-49-2]

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

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

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

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

SECTION 16: Other Information

16.1. Full Text of Hazard Statements and Precautionary Statements

Causes severe skin burns and eye damage. Causes serious eye irritation.

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. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician. Specific treatment (Wash areas of contact with water immediately). If eye irritation persists: Get medical attention. Wash contaminated clothing before reuse.

Store locked up.

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

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16.2. Miscellaneous Hazard Classes

Canadian Carcinogenicity Hazard Class: Not Applicable.

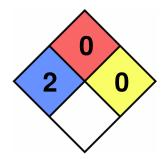
Physical Hazards Not Otherwise Classified (PHNOC): Not Applicable.

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

Biohazardous Infectious Materials Hazard Class: Not Applicable.

16.3. National Fire Protection Association (NFPA) Rating

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



16.4. Document Revision

Last Revision Date: 2025-02-02

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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