Classified according to WHMIS 2015

SECTION 1: Identification

1.1. Product Identifier

Trade Name or Designation: VeriSpec® QC ICV Standard 7

5000 ppm Ca, Mg, K, Na; 200 ppm Al, Ba; 100 ppm Fe, 60 ppm Sb; 50 ppm Co, V; 40 ppm Ni, 25 ppr

Product Number: RV010666

Other Identifying Product Numbers:

1.2. Recommended Use and Restrictions on Use

Calibration Standard

1.3. Details of the Supplier of the Safety Data Sheet

Company: Ricca Chemical Company Address: 448 West Fork Drive

Arlington, TX 76012 USA

Telephone: 888-467-4222

1.4. Emergency Telephone Number (24 hours)

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

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SECTION 2: Hazard(s) Identification

2.1. Classification of the Substance or Mixture

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

		Hazard	
Hazard Class	Category	Statements	Precautionary Statements:
Acute Toxicity - Inhalation	Category 2	H330	P260, P271, P285, P304+P340, P310, P320,
			P403+P233, P405, P501
Skin Corrosion / Irritation	Category 1	H314	P260, P264, P280, P301+P330+P331,
			P303+P361+P353, P363, P304+P340, P310,
			P321, P305+P351+P338, P405, P501
Eye Damage / Irritation	Category 1	H318	P280, P305+P351+P338, P310
Corrosive to Metals	Category 1	H290	P234, P390, P406
Hazardous to the Aquatic Environment (Acute)	Category 2	H401	P273, P501
Hazardous to the Aquatic Environment (Chronic)	Category 2	H411	P273, P391, P501

2.2. GHS Label Elements

Pictograms:







Signal Word: Danger

Hazard Statements:

Hazard Number	Hazard Statement
H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H401	Toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

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Precautionary Statements:

Precautionary Number	Precautionary Statement
P234	Keep only in original container.
P260	Do not breathe fumes, mist, vapors, or spray.
P264	Wash arms, hands and face thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves and eye protection.
P285	In case of inadequate ventilation wear respiratory protection.
P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and
	easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or physician.
P320	Specific treatment is urgent (Wash areas of contact with water.).
P321	Specific treatment (Wash areas of contact with water.).
P363	Wash contaminated clothing before reuse.
P390	Absorb spillage to prevent material damage.
P391	Collect spillage.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P406	Store in corrosive resistant container with a resistant inner liner.
P501	Dispose of contents in accordance with local, state, federal and international regulations.

2.4. Hazards not Otherwise Classified or Covered by GHS

Data not available.

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Safety Data Sheet

SECTION 3: Composition / Information on Ingredients

3.1. Components of Substance or Mixture

Nitric Acid HNO_3 63.01 Magnesium Nitrate $Mg(NO_3)_2$ 148.31 Calcium Nitrate $Ca(NO_3)_2$ 164.08 Sodium Nitrate $NaNO_3$ 84.99 Potassium Nitrate KNO_3 101.10 Aluminum Nitrate $AI(NO_3)_3$ 212.99 Ferric Nitrate $Fe(NO_3)_3$ 241.85 Barium Nitrate $Ba(NO_3)_2$ 261.33 Cobalt (II) Nitrate $Co(NO_3)_2$ 182.94 Nickel (II) Nitrate $Ni(NO_3)_2$ 182.70 Fluoroantimonic Acid $HSbF_6$ 236.76 Ammonium Metavanadate NH_4VO_3 116.97 Cupric Nitrate $Cu(NO_3)_2$ xH $_2O$ 251.10 Beryllium Nitrate $Be(NO_3)_2$ 133.02 Zinc Nitrate $Zn(NO_3)_2$ 189.41	1 g/mol 7732-1 1 g/mol 7697-3 1 g/mol 10377- 8 g/mol 10124- 9 g/mol 7631-9 0 g/mol 7757-7 9 g/mol 13473- 5 g/mol 10421-	37-2 5.00 7-60-3 3.05 1-37-5 2.05 99-4 1.85 79-1 1.29 3-90-0 0.28
Magnesium Nitrate $Mg(NO_3)_2$ 148.31 Calcium Nitrate $Ca(NO_3)_2$ 164.08 Sodium Nitrate $NaNO_3$ 84.99 Potassium Nitrate KNO_3 101.10 Aluminum Nitrate $Al(NO_3)_3$ 212.99 Ferric Nitrate $Fe(NO_3)_3$ 241.85 Barium Nitrate $Ba(NO_3)_2$ 261.33 Cobalt (II) Nitrate $Co(NO_3)_2$ 182.94 Nickel (II) Nitrate $Ni(NO_3)_2$ 182.70 Fluoroantimonic Acid $HSbF_6$ 236.76 Ammonium Metavanadate NH_4VO_3 116.97 Cupric Nitrate $Cu(NO_3)_2 \times H_2O$ 251.10 Beryllium Nitrate $Be(NO_3)_2$ 133.02 Zinc Nitrate $Zn(NO_3)_2$ 189.41	1 g/mol 10377- 8 g/mol 10124- 9 g/mol 7631-9 0 g/mol 7757-7 9 g/mol 13473- 5 g/mol 10421-	7-60-3 3.05 1-37-5 2.05 99-4 1.85 79-1 1.29 3-90-0 0.28
Calcium Nitrate $Ca(NO_3)_2$ 164.08 Sodium Nitrate $NaNO_3$ 84.99 Potassium Nitrate KNO_3 101.10 Aluminum Nitrate $Al(NO_3)_3$ 212.99 Ferric Nitrate $Fe(NO_3)_3$ 241.85 Barium Nitrate $Ba(NO_3)_2$ 261.33 Cobalt (II) Nitrate $Co(NO_3)_2$ 182.94 Nickel (II) Nitrate $Ni(NO_3)_2$ 182.70 Fluoroantimonic Acid $HSbF_6$ 236.76 Ammonium Metavanadate NH_4VO_3 116.97 Cupric Nitrate $Cu(NO_3)_2 \cdot xH_2O$ 251.10 Beryllium Nitrate $Be(NO_3)_2$ 133.02 Zinc Nitrate $Zn(NO_3)_2$ 189.41	8 g/mol 10124- 9 g/mol 7631-9 0 g/mol 7757-7 9 g/mol 13473- 5 g/mol 10421-	1-37-5 2.05 99-4 1.85 79-1 1.29 3-90-0 0.28
Sodium NitrateNaNO $_3$ 84.99Potassium NitrateKNO $_3$ 101.10Aluminum NitrateAl(NO $_3$) $_3$ 212.99Ferric NitrateFe(NO $_3$) $_3$ 241.85Barium NitrateBa(NO $_3$) $_2$ 261.33Cobalt (II) NitrateCo(NO $_3$) $_2$ 182.94Nickel (II) NitrateNi(NO $_3$) $_2$ 182.70Fluoroantimonic AcidHSbF $_6$ 236.76Ammonium MetavanadateNH $_4$ VO $_3$ 116.97Cupric NitrateCu(NO $_3$) $_2$:xH $_2$ O251.10Beryllium NitrateBe(NO $_3$) $_2$ 133.02Zinc NitrateZn(NO $_3$) $_2$ 189.41	9 g/mol 7631-9 0 g/mol 7757-7 9 g/mol 13473- 5 g/mol 10421-	99-4 1.85 79-1 1.29 3-90-0 0.28
Potassium NitrateKNO $_3$ 101.10Aluminum NitrateAl(NO $_3$) $_3$ 212.99Ferric NitrateFe(NO $_3$) $_3$ 241.85Barium NitrateBa(NO $_3$) $_2$ 261.33Cobalt (II) NitrateCo(NO $_3$) $_2$ 182.94Nickel (II) NitrateNi(NO $_3$) $_2$ 182.70Fluoroantimonic AcidHSbF $_6$ 236.76Ammonium MetavanadateNH $_4$ VO $_3$ 116.97Cupric NitrateCu(NO $_3$) $_2$:xH $_2$ O251.10Beryllium NitrateBe(NO $_3$) $_2$ 133.02Zinc NitrateZn(NO $_3$) $_2$ 189.41	0 g/mol 7757-7 9 g/mol 13473- 5 g/mol 10421-	79-1 1.29 3-90-0 0.28
Aluminum Nitrate $Al(NO_3)_3$ 212.99 Ferric Nitrate $Fe(NO_3)_3$ 241.85 Barium Nitrate $Ba(NO_3)_2$ 261.33 Cobalt (II) Nitrate $Co(NO_3)_2$ 182.94 Nickel (II) Nitrate $Ni(NO_3)_2$ 182.70 Fluoroantimonic Acid $HSbF_6$ 236.76 Ammonium Metavanadate NH_4VO_3 116.97 Cupric Nitrate $Cu(NO_3)_2 \cdot xH_2O$ 251.10 Beryllium Nitrate $Be(NO_3)_2$ 133.02 Zinc Nitrate $Zn(NO_3)_2$ 189.41	9 g/mol 13473- 5 g/mol 10421-	3-90-0 0.28
Ferric Nitrate $Fe(NO_3)_3 \qquad 241.85$ Barium Nitrate $Ba(NO_3)_2 \qquad 261.33$ Cobalt (II) Nitrate $Co(NO_3)_2 \qquad 182.94$ Nickel (II) Nitrate $Ni(NO_3)_2 \qquad 182.70$ Fluoroantimonic Acid $HSbF_6 \qquad 236.76$ Ammonium Metavanadate $NH_4VO_3 \qquad 116.97$ Cupric Nitrate $Cu(NO_3)_2 \cdot xH_2O \qquad 251.10$ Beryllium Nitrate $Be(NO_3)_2 \qquad 133.02$ Zinc Nitrate $Zn(NO_3)_2 \qquad 189.41$	5 g/mol 10421-	
Barium Nitrate $Ba(NO_3)_2$ 261.33 Cobalt (II) Nitrate $Co(NO_3)_2$ 182.94 Nickel (II) Nitrate $Ni(NO_3)_2$ 182.70 Fluoroantimonic Acid $HSbF_6$ 236.76 Ammonium Metavanadate NH_4VO_3 116.97 Cupric Nitrate $Cu(NO_3)_2 \cdot xH_2O$ 251.10 Beryllium Nitrate $Be(NO_3)_2$ 133.02 Zinc Nitrate $Zn(NO_3)_2$ 189.41		40.4
Cobalt (II) Nitrate $Co(NO_3)_2$ 182.94 Nickel (II) Nitrate $Ni(NO_3)_2$ 182.70 Fluoroantimonic Acid $HSbF_6$ 236.76 Ammonium Metavanadate NH_4VO_3 116.97 Cupric Nitrate $Cu(NO_3)_2 \cdot xH_2O$ 251.10 Beryllium Nitrate $Be(NO_3)_2$ 133.02 Zinc Nitrate $Zn(NO_3)_2$ 189.41		-48-4 < 0.1
Nickel (II) NitrateNi(NO $_3$) $_2$ 182.70Fluoroantimonic AcidHSbF $_6$ 236.76Ammonium MetavanadateNH $_4$ VO $_3$ 116.97Cupric NitrateCu(NO $_3$) $_2$ ·xH $_2$ O251.10Beryllium NitrateBe(NO $_3$) $_2$ 133.02Zinc NitrateZn(NO $_3$) $_2$ 189.41	3 g/mol 10022-	2-31-8 < 0.1
Fluoroantimonic Acid $HSbF_6$ 236.76 Ammonium Metavanadate NH_4VO_3 116.97 Cupric Nitrate $Cu(NO_3)_2 \cdot xH_2O$ 251.10 Beryllium Nitrate $Be(NO_3)_2$ 133.02 Zinc Nitrate $Zn(NO_3)_2$ 189.41	4 g/mol 10141-	-05-6 < 0.1
Ammonium Metavanadate NH_4VO_3 116.97 Cupric Nitrate $Cu(NO_3)_2 \cdot xH_2O$ 251.10 Beryllium Nitrate $Be(NO_3)_2$ 133.02 Zinc Nitrate $Zn(NO_3)_2$ 189.41	0 g/mol 13138-	3-45-9 < 0.1
Cupric Nitrate $Cu(NO_3)_2 \cdot xH_2O$ 251.10 Beryllium Nitrate $Be(NO_3)_2$ 133.02 Zinc Nitrate $Zn(NO_3)_2$ 189.41	6 g/mol 16950-)-06-4 < 0.1
Beryllium Nitrate $Be(NO_3)_2$ 133.02 Zinc Nitrate $Zn(NO_3)_2$ 189.41	7 g/mol 7803-5	55-6 < 0.1
Zinc Nitrate Zn(NO ₃) ₂ 189.41	0 g/mol 3251-2	23-8 < 0.1
(3)2	2 g/mol 13597-	7-99-4 < 0.1
	1 g/mol 7779-8	88-6 < 0.1
Manganese Nitrate Mn(NO ₃) ₂ 178.94	4 g/mol 10377-	7-66-9 < 0.1
Chromium (III) Nitrate Cr(NO ₃) ₃ 238.01	1 g/mol 13548-	3-38-4 < 0.1
Arsenic Acid H ₃ AsO ₄ 141.94	4 g/mol 7778-3	39-4 < 0.1
Silver Nitrate AgNO ₃ 169.87	7 g/mol 7761-8	88-8 < 0.1
Thallium (I) Nitrate TINO ₃ 266.38	8 g/mol 10102-	2-45-1 < 0.1
Cadmium Nitrate CdN ₂ O ₆ 236.42	2 g/mol 10325-	5-94-7 < 0.1
Selenous Acid H ₂ SeO ₃ 128.97	7 a/mal 7700 C	00-8 < 0.1
Lead Nitrate Pb(NO ₃) ₂ 331.20	1 y/11101 1/63-C)-74-8 < 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.

Inhalation: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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Skin Contact: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

Ingestion: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

4.2. Most Important Symptoms and Effects, Acute and Delayed

Causes severe skin burns and eye damage. Causes serious eye damage. Fatal if inhaled.

4.3. Medical Attention or Special Treatment Needed

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

SECTION 5: Fire-Fighting Measures

5.1. Extinguishing Media

Not considered to be a fire or explosion hazard.

5.2. Specific Hazards Arising from the Substance or Mixture

Not considered to be a fire or explosion hazard.

5.3. Special Protective Equipment for Firefighters

Wear protective clothing and NIOSH-approved breathing equipment appropriate for the surrounding fire.

SECTION 6: Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Wear protective gloves and eye protection. In case of inadequate ventilation wear respiratory protection.

6.2. Cleanup and Containment Methods and Materials

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

SECTION 7: Handling and Storage

7.1. Precautions for Safe Handling and Storage Conditions

Store in corrosive resistant container with a resistant inner liner.

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SECTION 8: Exposure Controls / Personal Protection

8.1 Control Parameters

Chemical Name	Limit Type	Country	Exposure Limit	Information Source
Barium Nitrate (10022-31-8)	TLV-TWA	USA	"0.5 mg/m³ TWA (as Ba)" As Barium soluble compounds [RR-00049-7]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Barium Nitrate (10022-31-8)	TWA	USA	"0.5 mg/m³ TWA (regulated under CAS 7440-39-3, as Ba)" As Barium, soluble compounds [RR-00049-7]	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)
Barium Nitrate (10022-31-8)	TLV-TWA	USA	0.5 mg/m ³ TWA (as Ba)	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Barium Nitrate (10022-31-8)	TWA	USA	0.5 mg/m³ TWA (regulated under CAS 7440-39-3, as Ba)	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)
Lead Nitrate (10099-74-8)	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 Nitrate (10099-74-8)	TWA	USA	"50 µg/m³ TWA (as Pb)" As Lead, inorganic compounds [RR-00538-9]	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)
Lead Nitrate (10099-74-8)	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 Nitrate (10099-74-8)	PEL	USA	30 μg/m³ Action Level (See 29 CFR 1910.1025, as Pb); 50 μg/m³ TWA (as Pb)	U.S OSHA - Specifically Regulated Chemicals with PELs
Lead Nitrate (10099-74-8)	TLV-TWA	USA	0.05 mg/m³ TWA (as Pb)	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Lead Nitrate (10099-74-8)	TWA	USA	50 μg/m³ TWA (as Pb)	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)
Thallium (I) Nitrate (10102-45-1)	TLV-TWA	USA	"0.02 mg/m³ TWA (inhalable particulate matter, as TI)" As Thallium compounds [RR-00575-4]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)

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Thallium (I) Nitrate (10102-45-1)	TWA	USA	"0.1 mg/m³ TWA (as TI)" As	U.S OSHA - Final PELs - Time
			Thallium, soluble compounds [RR-00048-6]	Weighted Averages (TWAs)
Thallium (I) Nitrate (10102-45-1)	TLV-TWA	USA	"0.02 mg/m³ TWA	ACGIH - Threshold Limit Values - Time
			(inhalable particulate	Weighted Averages (TLV-TWA)
			matter, as TI)" As Thallium	
			compounds [RR-00575-4]	
Thallium (I) Nitrate (10102-45-1)	TWA	USA	"0.1 mg/m³ TWA (as TI)" As	U.S OSHA - Final PELs - Time
			Thallium, soluble	Weighted Averages (TWAs)
			compounds [RR-00048-6]	
Thallium (I) Nitrate (10102-45-1)	TLV-TWA	USA	"0.02 mg/m³ TWA	ACGIH - Threshold Limit Values - Time
,			(inhalable particulate	Weighted Averages (TLV-TWA)
			matter, as TI)" As Thallium	,
			compounds [RR-00575-4]	
Thallium (I) Nitrate (10102-45-1)	TWA	USA	0.1 mg/m³ TWA (as TI)	U.S OSHA - Final PELs - Time
(, , , , , , , , , , , , , , , , , , ,			3 (***)	Weighted Averages (TWAs)
Thallium (I) Nitrate (10102-45-1)	TLV-TWA	USA	0.02 mg/m ³ TWA (inhalable	ACGIH - Threshold Limit Values - Time
,			particulate matter, as TI)	Weighted Averages (TLV-TWA)
Thallium (I) Nitrate (10102-45-1)	TLV-TWA	USA	"0.02 mg/m³ TWA	ACGIH - Threshold Limit Values - Time
,			(inhalable particulate	Weighted Averages (TLV-TWA)
			matter, as TI)" As Thallium	,
			compounds [RR-00575-4]	
Cobalt (II) Nitrate (10141-05-6)	TLV-TWA	USA	"0.02 mg/m³ TWA	ACGIH - Threshold Limit Values - Time
,			(inhalable particulate	Weighted Averages (TLV-TWA)
			matter, as Co)" As Cobalt	,
			inorganic compounds	
			[RR-02516-1]	
Cobalt (II) Nitrate (10141-05-6)	TLV-TWA	USA	"0.02 mg/m³ TWA	ACGIH - Threshold Limit Values - Time
,			(inhalable particulate	Weighted Averages (TLV-TWA)
			matter, as Co)" As Cobalt	3 3 ()
			inorganic compounds	
			[RR-02516-1]	
Nickel (II) Nitrate (13138-45-9)	TWA	USA	"1 mg/m³ TWA (as Ni)" As	U.S OSHA - Final PELs - Time
() () () () () () () ()			Nickel, soluble compounds	Weighted Averages (TWAs)
			[RR-00038-4]	g
Cobalt (II) Nitrate (10141-05-6)	TLV-TWA	USA	"0.02 mg/m³ TWA	ACGIH - Threshold Limit Values - Time
() () ()		-	(inhalable particulate	Weighted Averages (TLV-TWA)
			matter, as Co)" As Cobalt	3,
			inorganic compounds	
			[RR-02516-1]	

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Cobalt (II) Nitrate (10141-05-6)	TLV-TWA	USA	0.02 mg/m³ TWA (inhalable particulate matter, as Co)	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Cobalt (II) Nitrate (10141-05-6)	TLV-TWA	USA	"0.02 mg/m ³ TWA	ACGIH - Threshold Limit Values - Time
() ()			(inhalable particulate	Weighted Averages (TLV-TWA)
			matter, as Co)" As Cobalt	, ,
			inorganic compounds	
			[RR-02516-1]	
Cadmium Nitrate (10325-94-7)	PEL	USA	"5 μg/m³ TWA (See 29 CFR	U.S OSHA - Specifically Regulated
			1910.1027, as Cd); 2.5	Chemicals with PELs
			μg/m³ Action Level (as Cd)"	
			As Cadmium compounds	
			[RR-00559-4]	
Cadmium Nitrate (10325-94-7)	TLV-TWA	USA	"0.01 mg/m3 TWA (as Cd);	ACGIH - Threshold Limit Values - Time
			0.002 mg/m³ TWA	Weighted Averages (TLV-TWA)
			(respirable particulate	
			matter, as Cd)" As	
			Cadmium compounds	
			[RR-00559-4]	
Cadmium Nitrate (10325-94-7)	PEL	USA	"5 μg/m³ TWA (See 29 CFR	U.S OSHA - Specifically Regulated
			1910.1027, as Cd); 2.5	Chemicals with PELs
			μg/m³ Action Level (as Cd)"	
			As Cadmium compounds	
			[RR-00559-4]	
Cadmium Nitrate (10325-94-7)	TLV-TWA	USA	"0.01 mg/m ³ TWA (as Cd);	ACGIH - Threshold Limit Values - Time
			0.002 mg/m ³ TWA	Weighted Averages (TLV-TWA)
			(respirable particulate	
			matter, as Cd)" As	
			Cadmium compounds	
			[RR-00559-4]	
Cadmium Nitrate (10325-94-7)	PEL	USA	"5 μg/m³ TWA (See 29 CFR	U.S OSHA - Specifically Regulated
			1910.1027, as Cd); 2.5	Chemicals with PELs
			μg/m³ Action Level (as Cd)"	
			As Cadmium compounds	
			[RR-00559-4]	
Cadmium Nitrate (10325-94-7)	TLV-TWA	USA	"0.01 mg/m ³ TWA (as Cd);	ACGIH - Threshold Limit Values - Time
			0.002 mg/m ³ TWA	Weighted Averages (TLV-TWA)
			(respirable particulate	
			matter, as Cd)" As	
			Cadmium compounds	
			[RR-00559-4]	

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	'5 μg/m³ TWA (See 29 CFR	U.S OSHA - Specifically Regulated
	•	Chemicals with PELs
	• • • • • • • • • • • • • • • • • • • •	
	'	
	•	ACGIH - Threshold Limit Values - Time
	` '	Weighted Averages (TLV-TWA)
	<u> </u>	Weighted Averages (TEV-TWA)
	· · ·	
	•	
	•	
	•	U.S OSHA - Specifically Regulated
	, -	Chemicals with PELs
	•	
SA	0.01 mg/m ³ TWA (as Cd);	ACGIH - Threshold Limit Values - Time
1	0.002 mg/m³ TWA	Weighted Averages (TLV-TWA)
(respirable particulate	
ľ	matter, as Cd)	
	• • • • • • • • • • • • • • • • • • • •	ACGIH - Threshold Limit Values - Time
	•	Weighted Averages (TLV-TWA)
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	, •	U.S OSHA - Specifically Regulated
	•	Chemicals with PELs
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	·	
	<u> </u>	ACCILL Threehold Limit Volves Times
	, ,	ACGIH - Threshold Limit Values - Time
	=	Weighted Averages (TLV-TWA)
	•	
	,	
	•	
	•	U.S OSHA - Specifically Regulated
	,	Chemicals with PELs
	ug/m³ Action Level (as Cd)"	The state of the s
	As Cadmium compounds	
	SA () SA ()	1910.1027, as Cd); 2.5 μg/m³ Action Level (as Cd)" As Cadmium compounds [RR-00559-4] SA "0.01 mg/m³ TWA (as Cd); 0.002 mg/m³ TWA (respirable particulate matter, as Cd)" As Cadmium compounds [RR-00559-4] SA 5 μg/m³ TWA (See 29 CFR 1910.1027, as Cd); 2.5 μg/m³ Action Level (as Cd) SA 0.01 mg/m³ TWA (as Cd); 0.002 mg/m³ TWA (respirable particulate matter, as Cd) SA "0.01 mg/m³ TWA (as Cd); 0.002 mg/m³ TWA (respirable particulate matter, as Cd)" As Cadmium compounds [RR-00559-4] SA "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] SA "0.01 mg/m³ TWA (as Cd); 0.002 mg/m³ TWA (respirable particulate matter, as Cd)" As Cadmium compounds [RR-00559-4] SA "0.01 mg/m³ TWA (see 29 CFR 1910.1027, as Cd); 2.5 μg/m³ TWA (respirable particulate matter, as Cd)" As Cadmium compounds [RR-00559-4] SA "5 μg/m³ TWA (See 29 CFR 1910.1027, as Cd); 2.5

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Fluoroantimonic Acid (16950-06-4)	TLV-TWA	USA	0.5 mg/m³ TWA (as Sb)	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Manganese Nitrate (10377-66-9)	TLV-TWA	USA	"0.02 mg/m³ TWA (respirable particulate matter, as Mn); 0.1 mg/m³ TWA (inhalable particulate matter, as Mn)" As Manganese inorganic compounds [RR-03861-9]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Manganese Nitrate (10377-66-9)	PEL-Ceiling	USA	"5 mg/m³ Ceiling (as Mn)" As Manganese compounds [RR-00602-0]	U.S OSHA - Final PELs - Ceiling Limits
Manganese Nitrate (10377-66-9)	TLV-TWA	USA	"0.02 mg/m³ TWA (respirable particulate matter, as Mn); 0.1 mg/m³ TWA (inhalable particulate matter, as Mn)" As Manganese inorganic compounds [RR-03861-9]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Manganese Nitrate (10377-66-9)	PEL-Ceiling	USA	"5 mg/m³ Ceiling (as Mn)" As Manganese compounds [RR-00602-0]	U.S OSHA - Final PELs - Ceiling Limits
Manganese Nitrate (10377-66-9)	TLV-TWA	USA	"0.02 mg/m³ TWA (respirable particulate matter, as Mn); 0.1 mg/m³ TWA (inhalable particulate matter, as Mn)" As Manganese inorganic compounds [RR-03861-9]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Manganese Nitrate (10377-66-9)	PEL-Ceiling	USA	"5 mg/m³ Ceiling (as Mn)" As Manganese compounds [RR-00602-0]	U.S OSHA - Final PELs - Ceiling Limits
Manganese Nitrate (10377-66-9)	PEL-Ceiling	USA	"5 mg/m³ Ceiling (as Mn)" As Manganese compounds [RR-00602-0]	U.S OSHA - Final PELs - Ceiling Limits

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Manganese Nitrate (10377-66-9)	TLV-TWA	USA	"0.02 mg/m³ TWA (respirable particulate matter, as Mn); 0.1 mg/m³ TWA (inhalable particulate matter, as Mn)" As Manganese inorganic compounds [RR-03861-9]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Manganese Nitrate (10377-66-9)	PEL-Ceiling	USA	5 mg/m³ Ceiling (as Mn)	U.S OSHA - Final PELs - Ceiling Limits
Manganese Nitrate (10377-66-9)	PEL-Ceiling	USA	"5 mg/m³ Ceiling (as Mn)" As Manganese compounds [RR-00602-0]	U.S OSHA - Final PELs - Ceiling Limits
Manganese Nitrate (10377-66-9)	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)
Manganese Nitrate (10377-66-9)	PEL-Ceiling	USA	"5 mg/m³ Ceiling (as Mn)" As Manganese compounds [RR-00602-0]	U.S OSHA - Final PELs - Ceiling Limits
Manganese Nitrate (10377-66-9)	TLV-TWA	USA	"0.02 mg/m³ TWA (respirable particulate matter, as Mn); 0.1 mg/m³ TWA (inhalable particulate matter, as Mn)" As Manganese inorganic compounds [RR-03861-9]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Manganese Nitrate (10377-66-9)	PEL-Ceiling	USA	"5 mg/m³ Ceiling (as Mn)" As Manganese compounds [RR-00602-0]	U.S OSHA - Final PELs - Ceiling Limits
Ferric Nitrate (10421-48-4)	TLV-TWA	USA	"1 mg/m³ TWA (as Fe)" As Iron salts, soluble [RR-00521-0]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Ferric Nitrate (10421-48-4)	TLV-TWA	USA	"1 mg/m³ TWA (as Fe)" As Iron salts, soluble [RR-00521-0]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Ferric Nitrate (10421-48-4)	TLV-TWA	USA	1 mg/m³ TWA (as Fe)	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)

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Nickel (II) Nitrate (13138-45-9)	TLV-TWA	USA	"0.1 mg/m³ TWA (inhalable particulate matter, as Ni)" As Nickel soluble inorganic compounds [RR-04616-2]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Nickel (II) Nitrate (13138-45-9)	TWA	USA	"1 mg/m³ TWA (as Ni)" As Nickel, soluble compounds [RR-00038-4]	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)
Nickel (II) Nitrate (13138-45-9)	TLV-TWA	USA	"0.1 mg/m³ TWA (inhalable particulate matter, as Ni)" As Nickel soluble inorganic compounds [RR-04616-2]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Nickel (II) Nitrate (13138-45-9)	TLV-TWA	USA	"0.1 mg/m³ TWA (inhalable particulate matter, as Ni)" As Nickel soluble inorganic compounds [RR-04616-2]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Nickel (II) Nitrate (13138-45-9)	TWA	USA	"1 mg/m³ TWA (as Ni)" As Nickel, soluble compounds [RR-00038-4]	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)
Nickel (II) Nitrate (13138-45-9)	TWA	USA	"1 mg/m³ TWA (as Ni)" As Nickel, soluble compounds [RR-00038-4]	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)
Nickel (II) Nitrate (13138-45-9)	TLV-TWA	USA	"0.1 mg/m³ TWA (inhalable particulate matter, as Ni)" As Nickel soluble inorganic compounds [RR-04616-2]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Nickel (II) Nitrate (13138-45-9)	TLV-TWA	USA	"0.1 mg/m³ TWA (inhalable particulate matter, as Ni)" As Nickel soluble inorganic compounds [RR-04616-2]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Nickel (II) Nitrate (13138-45-9)	TWA	USA	"1 mg/m³ TWA (as Ni)" As Nickel, soluble compounds [RR-00038-4]	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)
Nickel (II) Nitrate (13138-45-9)	TWA	USA	1 mg/m³ TWA (as Ni)	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)
Nickel (II) Nitrate (13138-45-9)	TWA	USA	"1 mg/m³ TWA (as Ni)" As Nickel, soluble compounds [RR-00038-4]	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)
Nickel (II) Nitrate (13138-45-9)	TLV-TWA	USA	0.1 mg/m³ TWA (inhalable particulate matter, as Ni)	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)

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Chromium (III) Nitrate (13548-38-4)	TWA	USA	"0.5 mg/m3 TWA (as Cr)" As	U.S OSHA - Final PELs - Time
			Chromium(III) compounds [RR-03889-1]	Weighted Averages (TWAs)
Chromium (III) Nitrate (13548-38-4)	TWA	USA	"0.5 mg/m3 TWA (as Cr)" As	U.S OSHA - Final PELs - Time
			Chromium(III) compounds [RR-03889-1]	Weighted Averages (TWAs)
Chromium (III) Nitrate (13548-38-4)	TWA	USA	0.5 mg/m³ TWA (as Cr)	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)
Chromium (III) Nitrate (13548-38-4)	TWA	USA	"0.5 mg/m³ TWA (as Cr)" As Chromium(III) compounds [RR-03889-1]	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)
Chromium (III) Nitrate (13548-38-4)	TWA	USA	"0.5 mg/m³ TWA (as Cr)" As Chromium(III) compounds [RR-03889-1]	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)
Beryllium Nitrate (13597-99-4)	TWA	USA	"0.2 μg/m³ TWA (as Be)" As Beryllium compounds [RR-00557-2]	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)
Beryllium Nitrate (13597-99-4)	TLV-TWA	USA	"0.00005 mg/m³ TWA (inhalable particulate matter, as Be)" As Beryllium compounds [RR-00557-2]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Beryllium Nitrate (13597-99-4)	PEL-Ceiling	USA	"2 μg/m³ Ceiling (as Be)" As Beryllium compounds [RR-00557-2]	U.S OSHA - Final PELs - Ceiling Limits
Beryllium Nitrate (13597-99-4)	PEL-Ceiling	USA	"2 μg/m³ Ceiling (as Be)" As Beryllium compounds [RR-00557-2]	U.S OSHA - Final PELs - Ceiling Limits
Beryllium Nitrate (13597-99-4)	TWA	USA	"0.2 μg/m³ TWA (as Be)" As Beryllium compounds [RR-00557-2]	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)
Beryllium Nitrate (13597-99-4)	TLV-TWA	USA	"0.00005 mg/m³ TWA (inhalable particulate matter, as Be)" As Beryllium compounds [RR-00557-2]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Beryllium Nitrate (13597-99-4)	TLV-TWA	USA	"0.00005 mg/m³ TWA (inhalable particulate matter, as Be)" As Beryllium compounds [RR-00557-2]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Beryllium Nitrate (13597-99-4)	TWA	USA	"0.2 μg/m³ TWA (as Be)" As Beryllium compounds [RR-00557-2]	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)

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Beryllium Nitrate (13597-99-4)	PEL-Ceiling	USA	"2 µg/m³ Ceiling (as Be)" As Beryllium compounds [RR-00557-2]	U.S OSHA - Final PELs - Ceiling Limits
Beryllium Nitrate (13597-99-4)	PEL-Ceiling	USA	2 μg/m³ Ceiling (as Be)	U.S OSHA - Final PELs - Ceiling Limits
Beryllium Nitrate (13597-99-4)	TLV-TWA	USA	0.00005 mg/m³ TWA (inhalable particulate matter, as Be)	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Beryllium Nitrate (13597-99-4)	TWA	USA	0.2 μg/m³ TWA (as Be)	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)
Beryllium Nitrate (13597-99-4)	PEL-Ceiling	USA	"2 μg/m³ Ceiling (as Be)" As Beryllium compounds [RR-00557-2]	U.S OSHA - Final PELs - Ceiling Limits
Beryllium Nitrate (13597-99-4)	TWA	USA	"0.2 μg/m³ TWA (as Be)" As Beryllium compounds [RR-00557-2]	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)
Beryllium Nitrate (13597-99-4)	TLV-TWA	USA	"0.00005 mg/m³ TWA (inhalable particulate matter, as Be)" As Beryllium compounds [RR-00557-2]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Beryllium Nitrate (13597-99-4)	TLV-TWA	USA	"0.00005 mg/m³ TWA (inhalable particulate matter, as Be)" As Beryllium compounds [RR-00557-2]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Beryllium Nitrate (13597-99-4)	TWA	USA	"0.2 μg/m³ TWA (as Be)" As Beryllium compounds [RR-00557-2]	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)
Beryllium Nitrate (13597-99-4)	PEL-Ceiling	USA	"2 μg/m³ Ceiling (as Be)" As Beryllium compounds [RR-00557-2]	U.S OSHA - Final PELs - Ceiling Limits
Beryllium Nitrate (13597-99-4)	TWA	USA	"0.2 μg/m³ TWA (as Be)" As Beryllium compounds [RR-00557-2]	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)
Beryllium Nitrate (13597-99-4)	TLV-TWA	USA	"0.00005 mg/m³ TWA (inhalable particulate matter, as Be)" As Beryllium compounds [RR-00557-2]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Beryllium Nitrate (13597-99-4)	PEL-Ceiling	USA	"2 μg/m³ Ceiling (as Be)" As Beryllium compounds [RR-00557-2]	U.S OSHA - Final PELs - Ceiling Limits

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Fluoroantimonic Acid (16950-06-4)	TWA	USA	"0.5 mg/m³ TWA (as Sb)"	U.S OSHA - Final PELs - Time
,			As Antimony compounds	Weighted Averages (TWAs)
			[RR-00585-6]	σ , ,
Fluoroantimonic Acid (16950-06-4)	TLV-TWA	USA	"0.5 mg/m3 TWA (as Sb)"	ACGIH - Threshold Limit Values - Time
			As Antimony compounds	Weighted Averages (TLV-TWA)
			[RR-00585-6]	
Fluoroantimonic Acid (16950-06-4)	TWA	USA	"0.5 mg/m³ TWA (as Sb)"	U.S OSHA - Final PELs - Time
			As Antimony compounds	Weighted Averages (TWAs)
			[RR-00585-6]	
Fluoroantimonic Acid (16950-06-4)	TLV-TWA	USA	"0.5 mg/m³ TWA (as Sb)"	ACGIH - Threshold Limit Values - Time
			As Antimony compounds	Weighted Averages (TLV-TWA)
			[RR-00585-6]	
Fluoroantimonic Acid (16950-06-4)	TLV-TWA	USA	"0.5 mg/m³ TWA (as Sb)"	ACGIH - Threshold Limit Values - Time
			As Antimony compounds	Weighted Averages (TLV-TWA)
			[RR-00585-6]	
Fluoroantimonic Acid (16950-06-4)	TWA	USA	"0.5 mg/m³ TWA (as Sb)"	U.S OSHA - Final PELs - Time
			As Antimony compounds	Weighted Averages (TWAs)
			[RR-00585-6]	
Fluoroantimonic Acid (16950-06-4)	TWA	USA	0.5 mg/m³ TWA (as Sb)	U.S OSHA - Final PELs - Time
				Weighted Averages (TWAs)
Cupric Nitrate (3251-23-8)	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]	
Cupric Nitrate (3251-23-8)	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]	
Cupric Nitrate (3251-23-8)	TLV-TWA	USA	1 mg/m3 TWA (dust and	ACGIH - Threshold Limit Values - Time
			mist, as Cu)	Weighted Averages (TLV-TWA)
Cupric Nitrate (3251-23-8)	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]	
Cupric Nitrate (3251-23-8)	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]	
Cupric Nitrate (3251-23-8)	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)	TWA	USA	2 ppm TWA; 5 mg/m³ TWA	U.S OSHA - Final PELs - Time
				Weighted Averages (TWAs)
Nitric Acid (7697-37-2)	TLV-TWA	USA	2 ppm TWA	ACGIH - Threshold Limit Values - Time
				Weighted Averages (TLV-TWA)

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Nitric Acid (7697-37-2)	TLV-STEL	USA	4 ppm STEL	ACGIH - Threshold Limit Values - Short Term Exposure Limits
				(TLV-STEL)
Silver Nitrate (7761-88-8)	TLV-TWA	USA	"0.01 mg/m3 TWA (as Ag)"	ACGIH - Threshold Limit Values - Time
			As Silver soluble	Weighted Averages (TLV-TWA)
			compounds [RR-00041-9]	
Silver Nitrate (7761-88-8)	TWA	USA	"0.01 mg/m³ TWA (as Ag)"	U.S OSHA - Final PELs - Time
			As Silver soluble	Weighted Averages (TWAs)
			compounds [RR-00041-9]	
Silver Nitrate (7761-88-8)	TLV-TWA	USA	0.01 mg/m ³ TWA (as Ag)	ACGIH - Threshold Limit Values - Time
				Weighted Averages (TLV-TWA)
Silver Nitrate (7761-88-8)	TWA	USA	0.01 mg/m³ TWA (as Ag)	U.S OSHA - Final PELs - Time
				Weighted Averages (TWAs)
Arsenic Acid (7778-39-4)	PEL	USA	"10 μg/m³ TWA (See 29	U.S OSHA - Specifically Regulated
			CFR 1910.1018; except	Chemicals with PELs
			Arsine, as As); 5 μg/m ³	
			Action Level (as As)" As	
			Inorganic arsenic	
			compounds [RR-00065-7]	
Arsenic Acid (7778-39-4)	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 Acid (7778-39-4)	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 Acid (7778-39-4)	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 Acid (7778-39-4)	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 Acid (7778-39-4)	PEL	USA	"10 μg/m³ TWA (See 29	U.S OSHA - Specifically Regulated
			CFR 1910.1018; except	Chemicals with PELs
			Arsine, as As); 5 μg/m³	
			Action Level (as As)" As	
			Inorganic arsenic	
			compounds [RR-00065-7]	

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Arsenic Acid (7778-39-4)	PEL	USA	"10 μg/m³ TWA (See 29	U.S OSHA - Specifically Regulated
Albertio Adia (AAA 60 4)		00/1	CFR 1910.1018; except	Chemicals with PELs
			Arsine, as As); 5 µg/m ³	Chomicale warr 225
			Action Level (as As)" As	
			Inorganic arsenic	
			compounds [RR-00065-7]	
Arsenic Acid (7778-39-4)	TWA	USA	"10 µg/m³ TWA (as As)" As	U.S OSHA - Final PELs - Time
Alsellic Acid (7770-03-4)	IVVA	UUA	Arsenic, inorganic	Weighted Averages (TWAs)
			compounds [RR-00065-7]	Weighted Averages (TWAS)
Arsenic Acid (7778-39-4)	TLV-TWA	USA	"0.01 mg/m ³ TWA (as As)"	ACGIH - Threshold Limit Values - Time
115e111c Acid (1110-33-4)	ILV-IVVA	USA	As Arsenic inorganic	
			•	Weighted Averages (TLV-TWA)
	PEL	USA	compounds [RR-00065-7]	U.S OSHA - Specifically Regulated
Arsenic Acid (7778-39-4)	PEL	USA	"10 µg/m³ TWA (See 29	Chemicals with PELs
			CFR 1910.1018; except	Chemicals with PELS
			Arsine, as As); 5 µg/m³	
			Action Level (as As)" As	
			Inorganic arsenic	
1 1 1 1 /=== 0 00 d)	-		compounds [RR-00065-7]	
Arsenic Acid (7778-39-4)	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 Acid (7778-39-4)	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 Acid (7778-39-4)	PEL	USA	10 μg/m³ TWA (See 29	U.S OSHA - Specifically Regulated
			CFR 1910.1018; except	Chemicals with PELs
			Arsine, as As); 5 µg/m³	
			Action Level (as As)	
Arsenic Acid (7778-39-4)	TWA	USA	10 μg/m³ TWA (as As)	U.S OSHA - Final PELs - Time
				Weighted Averages (TWAs)
Arsenic Acid (7778-39-4)	TLV-TWA	USA	0.01 mg/m ³ TWA (as As)	ACGIH - Threshold Limit Values - Time
				Weighted Averages (TLV-TWA)
Arsenic Acid (7778-39-4)	TWA	USA	"0.5 mg/m3 TWA (as As)"	U.S OSHA - Final PELs - Time
			As Arsenic, organic	Weighted Averages (TWAs)
			compounds [RR-00035-1]	
Selenous Acid (7783-00-8)	TLV-TWA	USA	"0.2 mg/m³ TWA (as Se)"	ACGIH - Threshold Limit Values - Time
			As Selenium compounds	Weighted Averages (TLV-TWA)
			[RR-00612-2]	
Selenous Acid (7783-00-8)	TWA	USA	"0.2 mg/m³ TWA (as Se)"	U.S OSHA - Final PELs - Time
			As Selenium compounds	Weighted Averages (TWAs)
			[RR-00612-2]	

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Selenous Acid (7783-00-8)	TLV-TWA	USA	0.2 mg/m³ TWA (as Se)	ACGIH - Threshold Limit Values - Time
				Weighted Averages (TLV-TWA)
Selenous Acid (7783-00-8)	TWA	USA	0.2 mg/m³ TWA (as Se)	U.S OSHA - Final PELs - Time
				Weighted Averages (TWAs)
Selenous Acid (7783-00-8)	TWA	USA	"0.2 mg/m³ TWA (as Se)"	U.S OSHA - Final PELs - Time
			As Selenium compounds	Weighted Averages (TWAs)
			[RR-00612-2]	
Selenous Acid (7783-00-8)	TLV-TWA	USA	"0.2 mg/m³ TWA (as Se)"	ACGIH - Threshold Limit Values - Time
			As Selenium compounds	Weighted Averages (TLV-TWA)
			[RR-00612-2]	

8.2. Exposure Controls

Engineering Controls: Use only outdoors or in a well-ventilated area.

Respiratory Protection: In case of inadequate ventilation wear respiratory protection.

Skin Protection: Wear protective gloves and eye protection. **Eye Protection:** Wear protective gloves and eye protection.

8.3. Personal Protective Equipment

Wear protective gloves and eye protection. In case of inadequate ventilation wear respiratory protection.

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SECTION 9: Physical and Chemical Properties

9.1. Basic Physical and Chemical Properties

Appearance: Data not available.

Physical State: Liquid

Odor: Data not available.

Odor Threshold: Data not available.

pH: Data not available.

Melting/Freezing Point: Data not available.

Initial Boiling Point/Range: Data not available.

Flash Point: Data not available.

Evaporation Rate: Data not available.

Flammability: Data not available.

Flammability/Explosive Limits: Data not available.

Vapor Pressure: Data not available.

Vapor Density: Data not available.

Relative Density: 1.09

Solubility: Data not available.

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.

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:

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

Acute Toxicity - Other Information:

Data not available.

Skin Corrosion and Irritation:

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

Serious Eye Damage and Irritation:

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

Respiratory Sensitization:

Not applicable.

Skin Sensitization:

Not applicable.

Germ Cell Mutagenicity:

Not applicable.

Carcinogenicity:

Not applicable.

Reproductive Toxicity:

Not applicable.

Specific Target Organ Toxicity from Single Exposure:

Not applicable.

Specific Target Organ Toxicity from Repeated Exposure:

Not applicable.

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Aspiration Hazard:

Not applicable.

Additional Toxicology Information:

Data not available.

SECTION 12: Ecological Information

12.1. Ecotoxicity

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

12.2. Persistence and Degradability

Data not available.

12.3. Bioaccumulative Potential

Data not available.

12.4. Mobility in Soil

Data not available.

12.5. Other Adverse Ecological Effects

Data not available.

SECTION 13: Disposal Considerations

13.1. Waste Treatment Methods

Data not available.

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):



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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):



SECTION 15: Regulatory Information

15.1. Occupational Safety and Health Administration (OSHA) Hazards

Lead Nitrate (CAS # 10099-74-8): "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, inorganic compounds [RR-00538-9]

Lead Nitrate (CAS # 10099-74-8): 30 μg/m3 Action Level (See 29 CFR 1910.1025, as Pb); 50 μg/m3 TWA (See 29 CFR 1910.1025, as Pb) Cadmium Nitrate (CAS # 10325-94-7): "5 μg/m3 TWA (See 29 CFR 1910.1027, as Cd); 2.5 μg/m3 Action Level (as Cd)" As Cadmium compounds [RR-00559-4]

Cadmium Nitrate (CAS # 10325-94-7): 5 µg/m3 TWA (See 29 CFR 1910.1027, as Cd); 2.5 µg/m3 Action Level (as Cd)

Arsenic Acid (CAS # 7778-39-4): "10 µg/m3 TWA (See 29 CFR 1910.1018, except Arsine, as As); 5 µg/m3 Action Level (See 29 CFR 1910.1018, except Arsine, as As)" As Inorganic arsenic compounds [RR-00065-7]

Arsenic Acid (CAS # 7778-39-4): 10 μ g/m3 TWA (See 29 CFR 1910.1018, except Arsine, as As); 5 μ g/m3 Action Level (See 29 CFR 1910.1018, except Arsine, as As)

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

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

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

Selenous Acid (CAS # 7783-00-8): 10 lb EPCRA RQ

Selenous Acid (CAS # 7783-00-8): 1000 lb lower TPQ; 10000 lb upper TPQ

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

Lead Nitrate (CAS # 10099-74-8): 10 lb final RQ; 4.54 kg final RQ

Thallium (I) Nitrate (CAS # 10102-45-1): 100 lb final RQ; 45.4 kg final RQ

Ferric Nitrate (CAS # 10421-48-4): 1000 lb final RQ; 454 kg final RQ

Nickel (II) Nitrate (CAS # 13138-45-9): 100 lb final RQ; 45.4 kg final RQ

Beryllium Nitrate (CAS # 13597-99-4): 1 lb final RQ; 0.454 kg final RQ

Cupric Nitrate (CAS # 3251-23-8): 100 lb final RQ; 45.4 kg final RQ

Nitric Acid (CAS # 7697-37-2): 1000 lb final RQ; 454 kg final RQ

Silver Nitrate (CAS # 7761-88-8): 1 lb final RQ; 0.454 kg final RQ

Arsenic Acid (CAS # 7778-39-4): 1 lb final RQ; 0.454 kg final RQ

Zinc Nitrate (CAS # 7779-88-6): 1000 lb final RQ; 454 kg final RQ

Selenous Acid (CAS # 7783-00-8): 10 lb final RQ; 4.54 kg final RQ

Ammonium Metavanadate (CAS # 7803-55-6): 1000 lb final RQ; 454 kg final RQ

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

Barium Nitrate (CAS # 10022-31-8): "1.0 % de minimis concentration (includes any unique chemical substance that contains Barium as part of that chemical's infrastructure except for Barium sulfate CAS 7727-43-7, listed under Chemical Category N040)" As Barium compounds [RR-00555-0] Barium Nitrate (CAS # 10022-31-8): "1.0 % de minimis concentration (includes any unique chemical substance that contains Barium as part of that chemical's infrastructure except for Barium sulfate CAS 7727-43-7, listed under Chemical Category N040)" As Barium compounds [RR-00555-0]; "1.0 % de minimis concentration (reportable only when in aqueous solution, listed under Chemical Category N511)" As Nitrate compounds, water dissociable [RR-03804-0]

Barium Nitrate (CAS # 10022-31-8): 1.0 % de minimis concentration (includes any unique chemical substance that contains Barium as part of that chemical's infrastructure except for Barium sulfate CAS 7727-43-7, listed under Chemical Category N040)

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

Lead Nitrate (CAS # 10099-74-8): "0.1 % Supplier notification limit (includes any unique chemical substance that contains Lead as part of that chemical's infrastructure, listed under Chemical Category N420)" As Inorganic lead compounds [RR-00538-9];

"1.0 % de minimis concentration (reportable only when in aqueous solution, listed under Chemical Category N511)" As Nitrate compounds, water dissociable [RR-03804-0]

Lead Nitrate (CAS # 10099-74-8): "100 lb RT" As Lead compounds [RR-00630-4]

Lead Nitrate (CAS # 10099-74-8): 0.1 % Supplier notification limit (includes any unique chemical substance that contains Lead as part of that chemical's infrastructure, listed under Chemical Category N420)

Lead Nitrate (CAS # 10099-74-8): 1.0 % de minimis concentration (reportable only when in aqueous solution, listed under Chemical Category N511) Lead Nitrate (CAS # 10099-74-8):

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15.5. Massachusetts Right-to-Know Substance List

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

Lead Nitrate (CAS # 10099-74-8): Present

Thallium (I) Nitrate (CAS # 10102-45-1): Present

Cobalt (II) Nitrate (CAS # 10141-05-6): Present

Magnesium Nitrate (CAS # 10377-60-3): Present

Ferric Nitrate (CAS # 10421-48-4): Present

Nickel (II) Nitrate (CAS # 13138-45-9): Present

Beryllium Nitrate (CAS # 13597-99-4): Present

Cupric Nitrate (CAS # 3251-23-8): Present

Sodium Nitrate (CAS # 7631-99-4): Present

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

Potassium Nitrate (CAS # 7757-79-1): Present

Silver Nitrate (CAS # 7761-88-8): Present

Arsenic Acid (CAS # 7778-39-4): Present

Zinc Nitrate (CAS # 7779-88-6): Present

Selenous Acid (CAS # 7783-00-8): Extraordinarily hazardous

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

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15.6. Pennsylvania Right-to-Know Hazardous Substances

Barium Nitrate (CAS # 10022-31-8): "Environmental hazard" As Barium compounds [RR-00555-0]

Barium Nitrate (CAS # 10022-31-8): "Present" As Barium compounds [RR-00555-0]

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

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

Lead Nitrate (CAS # 10099-74-8): "Environmental hazard" As Lead compounds [RR-00630-4]

Lead Nitrate (CAS # 10099-74-8): "Present" As Lead compounds [RR-00630-4]

Lead Nitrate (CAS # 10099-74-8): Environmental hazard

Lead Nitrate (CAS # 10099-74-8): Present

Thallium (I) Nitrate (CAS # 10102-45-1): "Environmental hazard" As Thallium compounds [RR-00575-4]

Thallium (I) Nitrate (CAS # 10102-45-1): "Present" As Thallium compounds [RR-00575-4]

Thallium (I) Nitrate (CAS # 10102-45-1): Environmental hazard

Thallium (I) Nitrate (CAS # 10102-45-1): Present

Cobalt (II) Nitrate (CAS # 10141-05-6): "Environmental hazard" As Cobalt compounds [RR-00107-0]

Cobalt (II) Nitrate (CAS # 10141-05-6): "Present" As Cobalt compounds [RR-00107-0]

Cobalt (II) Nitrate (CAS # 10141-05-6): Environmental hazard

Cobalt (II) Nitrate (CAS # 10141-05-6): Present

Cadmium Nitrate (CAS # 10325-94-7): "Environmental hazard" As Cadmium compounds [RR-00559-4]

Cadmium Nitrate (CAS # 10325-94-7): "Present" As Cadmium compounds [RR-00559-4]

Cadmium Nitrate (CAS # 10325-94-7): Environmental hazard

Cadmium Nitrate (CAS # 10325-94-7): Present

Magnesium Nitrate (CAS # 10377-60-3): Present

Manganese Nitrate (CAS # 10377-66-9): "Environmental hazard" As Manganese compounds [RR-00602-0]

Manganese Nitrate (CAS # 10377-66-9): "Present" As Manganese compounds [RR-00602-0]

Manganese Nitrate (CAS # 10377-66-9): Environmental hazard

Manganese Nitrate (CAS # 10377-66-9): Present

Ferric Nitrate (CAS # 10421-48-4): "Environmental hazard" As Iron salts [RR-04647-9]

Ferric Nitrate (CAS # 10421-48-4): "Present" As Iron salts [RR-04647-9]

Ferric Nitrate (CAS # 10421-48-4): Environmental hazard

Ferric Nitrate (CAS # 10421-48-4): Present

Nickel (II) Nitrate (CAS # 131

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

Barium Nitrate (CAS # 10022-31-8): "SN 2146 500 lb TPQ (except Barium sulfate CAS number 7727-43-7, Category Code N040. Includes any unique chemical substance that contains the named metal as part of that chemical structure)" As Barium compounds [RR-00555-0]

Barium Nitrate (CAS # 10022-31-8): "SN 2146 500 lb TPQ (except Barium sulfate CAS number 7727-43-7, Category Code N040. Includes any unique chemical substance that contains the named metal as part of that chemical structure)" As Barium compounds [RR-00555-0];

"SN 3722 500 lb TPQ (water dissociable, Category Code N511)" As Nitrate compounds [RR-01770-9]

Barium Nitrate (CAS # 10022-31-8): "sn 2146" As Barium compounds [RR-00555-0]

Barium Nitrate (CAS # 10022-31-8): "SN 3722 500 lb TPQ (water dissociable, Category Code N511)" As Nitrate compounds [RR-01770-9]

Barium Nitrate (CAS # 10022-31-8): "sn 3722" As Nitrate compounds [RR-01770-9]

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

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

Barium Nitrate (CAS # 10022-31-8): SN 2146 500 lb TPQ (except Barium sulfate CAS number 7727-43-7, Category Code N040. Includes any unique chemical substance that contains the named metal as part of that chemical structure)

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

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

Lead Nitrate (CAS # 10099-74-8): "carcinogen" As Lead compounds [RR-00630-4]

Lead Nitrate (CAS # 10099-74-8): "SN 2266 500 lb TPQ (Category Code N420. Includes any unique chemical substance that contains the named metal as part of that chemical structure)" As Lead compounds [RR-00630-4]

Lead Nitrate (CAS # 10099-74-8): "SN 2266 500 lb TPQ (Category Code N420. Includes any unique chemical substance that contains the named metal as part of that chemical structure)" As Lead compounds [RR-00630-4];

"SN 3722 500 lb TPQ (water dissociable, Category Code N511)" As Nitrate compounds [RR-01770-9]

Lead Nitrate (CAS # 10099-74-8): "sn 2266" As Lead comp

15.8. California Proposition 65

Lead Nitrate (CAS # 10099-74-8): "carcinogen, 10/1/1992" As Lead compounds [RR-00630-4]

Lead Nitrate (CAS # 10099-74-8): carcinogen, 10/1/1992

Cadmium Nitrate (CAS # 10325-94-7): "carcinogen, 10/1/1987" As Cadmium compounds [RR-00559-4]

Cadmium Nitrate (CAS # 10325-94-7): carcinogen, 10/1/1987

Nickel (II) Nitrate (CAS # 13138-45-9): "carcinogen, 5/7/2004" As Nickel compounds [RR-00800-4]

Nickel (II) Nitrate (CAS # 13138-45-9): "developmental toxicity, 10/26/2018" As Nickel, soluble compounds [RR-00038-4]

Nickel (II) Nitrate (CAS # 13138-45-9): "male reproductive toxicity, 10/26/18" As Nickel, soluble compounds [RR-00038-4]

Nickel (II) Nitrate (CAS # 13138-45-9): carcinogen, 5/7/2004

Nickel (II) Nitrate (CAS # 13138-45-9): developmental toxicity, 10/26/2018

Nickel (II) Nitrate (CAS # 13138-45-9): male reproductive toxicity, 10/26/18

Beryllium Nitrate (CAS # 13597-99-4): "carcinogen, 10/1/1987" As Beryllium compounds [RR-00557-2]

Beryllium Nitrate (CAS # 13597-99-4): carcinogen, 10/1/1987

Arsenic Acid (CAS # 7778-39-4): "0.06 μg/day NSRL (inhalation, listed under Arsenic); 10 μg/day NSRL (except inhalation, listed under Arsenic)" As Arsenic, inorganic compounds [RR-00065-7]

Arsenic Acid (CAS # 7778-39-4): "carcinogen, 2/27/1987" As Arsenic, inorganic compounds [RR-00065-7]

Arsenic Acid (CAS # 7778-39-4): 0.06 µg/day NSRL (inhalation, listed under Arsenic); 10 µg/day NSRL (except inhalation, listed under Arsenic)

Arsenic Acid (CAS # 7778-39-4): carcinogen, 2/27/1987

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

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

Lead Nitrate (CAS # 10099-74-8): Present (DSL)

Thallium (I) Nitrate (CAS # 10102-45-1): Present (NDSL)

Calcium Nitrate (CAS # 10124-37-5): Present (DSL)

Cobalt (II) Nitrate (CAS # 10141-05-6): Present (DSL)

Cadmium Nitrate (CAS # 10325-94-7): Present (DSL)

Magnesium Nitrate (CAS # 10377-60-3): Present (DSL)

Manganese Nitrate (CAS # 10377-66-9): Present (DSL)

Ferric Nitrate (CAS # 10421-48-4): Present (DSL)

Nickel (II) Nitrate (CAS # 13138-45-9): Present (DSL)

Aluminum Nitrate (CAS # 13473-90-0): Present (DSL)

Chromium (III) Nitrate (CAS # 13548-38-4): Present (DSL)

Beryllium Nitrate (CAS # 13597-99-4): Present (NDSL)

Fluoroantimonic Acid (CAS # 16950-06-4): Present (NDSL)

Cupric Nitrate (CAS # 3251-23-8): Present (DSL)

Sodium Nitrate (CAS # 7631-99-4): Present (DSL)

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

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

Potassium Nitrate (CAS # 7757-79-1): Present (DSL)

Silver Nitrate (CAS # 7761-88-8): Present (DSL)

Arsenic Acid (CAS # 7778-39-4): Present (DSL)

Zinc Nitrate (CAS # 7779-88-6): Present (DSL)

Selenous Acid (CAS # 7783-00-8): Present (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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Barium Nitrate (CAS # 10022-31-8): Present (ACTIVE)

Lead Nitrate (CAS # 10099-74-8): Present (ACTIVE)

Thallium (I) Nitrate (CAS # 10102-45-1): Present (ACTIVE)

Calcium Nitrate (CAS # 10124-37-5): Present (ACTIVE)

Cobalt (II) Nitrate (CAS # 10141-05-6): Present (ACTIVE)

Cadmium Nitrate (CAS # 10325-94-7): Present (ACTIVE)

Magnesium Nitrate (CAS # 10377-60-3): Present (ACTIVE)

Manganese Nitrate (CAS # 10377-66-9): Present (ACTIVE)

Ferric Nitrate (CAS # 10421-48-4): Present (ACTIVE)

Nickel (II) Nitrate (CAS # 13138-45-9): Present (ACTIVE)

Aluminum Nitrate (CAS # 13473-90-0): Present (ACTIVE)

Chromium (III) Nitrate (CAS # 13548-38-4): Present (ACTIVE)

Beryllium Nitrate (CAS # 13597-99-4): Present (ACTIVE)

Fluoroantimonic Acid (CAS # 16950-06-4): Present (ACTIVE)

Cupric Nitrate (CAS # 3251-23-8): Present (ACTIVE)

Sodium Nitrate (CAS # 7631-99-4): Present (ACTIVE)

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

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

Potassium Nitrate (CAS # 7757-79-1): Present (ACTIVE)

Silver Nitrate (CAS # 7761-88-8): Present (ACTIVE)

Arsenic Acid (CAS # 7778-39-4): Present (ACTIVE)

Zinc Nitrate (CAS # 7779-88-6): Present (ACTIVE)

Selenous Acid (CAS # 7783-00-8): Present (ACTIVE)

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

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

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

Lead Nitrate (CAS # 10099-74-8): 233-245-9

Thallium (I) Nitrate (CAS # 10102-45-1): 233-273-1

Calcium Nitrate (CAS # 10124-37-5): 233-332-1

Cobalt (II) Nitrate (CAS # 10141-05-6): 233-402-1

Cadmium Nitrate (CAS # 10325-94-7): 233-710-6

Magnesium Nitrate (CAS # 10377-60-3): 233-826-7

Manganese Nitrate (CAS # 10377-66-9): 233-828-8

Ferric Nitrate (CAS # 10421-48-4): 233-899-5

Nickel (II) Nitrate (CAS # 13138-45-9): 236-068-5

Nickel (II) Nitrate (CAS # 13138-45-9): 238-076-4

Aluminum Nitrate (CAS # 13473-90-0): 236-751-8

Chromium (III) Nitrate (CAS # 13548-38-4): 236-921-1

Beryllium Nitrate (CAS # 13597-99-4): 237-062-5

Fluoroantimonic Acid (CAS # 16950-06-4): 241-023-8

Cupric Nitrate (CAS # 3251-23-8): 221-838-5

Sodium Nitrate (CAS # 7631-99-4): 231-554-3

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

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

Potassium Nitrate (CAS # 7757-79-1): 231-818-8

Silver Nitrate (CAS # 7761-88-8): 231-853-9

Arsenic Acid (CAS # 7778-39-4): 231-901-9

Zinc Nitrate (CAS # 7779-88-6): 231-943-8

Selenous Acid (CAS # 7783-00-8): 231-974-7

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

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

IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician. Specific treatment is urgent (Wash areas of contact with water.). Wash contaminated clothing before reuse. Absorb spillage to prevent material damage. Collect spillage.

Store in a well-ventilated place. Keep container tightly closed. Store locked up. Store in corrosive resistant container with a resistant inner liner.

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

16.2. Miscellaneous Hazard Classes

Canadian Carcinogenicity Hazard Class: Not Applicable.

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

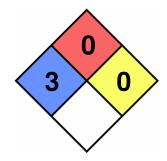
Health Hazards Not Otherwise Classified (HHNOC): Not Applicable.

Biohazardous Infectious Materials Hazard Class: Not Applicable.

16.3. National Fire Protection Association (NFPA) Rating

Health: 3 Flammability: 0 Reactivity: 0

Special Hazard:



16.4. Document Revision

Last Revision Date: 2023-10-11

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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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