

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 09/10/2016 Revision date: 09/10/2016 Version: 1.1

SECTION 1: Identification	
1.1. Identification	
Product form	: Mixture
Name	: ICP Calibration Standard - Quality Control (XVI) 21 components; 100mg/l each of As ; Be ; Ca ; Cd ; Co ; Cr ; Cu ; Fe ; Li ; Mg ; Mn ; Mo ; Ni ; Pb ; Sb ; Se ; Sr ; Ti ; Tl ; V ; Zn in HNO3 2% Equivalent to Merck Ref: 109487
Product code	: EQ0072
1.2. Relevant identified uses of the subst	ance or mixture and uses advised against
Use of the substance/mixture	: Certified reference material for laboratory use
1.3. Details of the supplier of the safety d	lata sheet
Spectracer UK Ltd. Second Floor, 27 Gloucester Place, London, W1U 8HU, United Kingdom. Tel: +44 (0) 207 193 9114	
Fax:+44 (0) 203 432 4686 Email: contact@spectracer.co.uk Web: www.spectracer.com	
1.4. Emergency telephone number	
Emergency number	: Tel: +44(0)1933445260 Option 1. Language: English only. For Chemical Emergencies Only Llewellyn (Safety Advisors) Europe Ltd
SECTION 2: Hazard(s) identification	

2.1. Classification of the substance or mixture

#### **GHS-US classification**

Skin corrosion/irritation Category 2	H315
Serious eye	H319
damage/eye irritation Category 2A	
Skin sensitization	H317
Category 1	
Carcinogenicity	H350
Category 1B	
Hazardous to the	H402
aquatic environment -	
Acute Hazard Category 3	
S Hazardous to the	H412
aquatic environment -	11412
Chronic Hazard	
Category 3	
Full text of H statements	s : see section 16

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2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	: CHS07 CHS08
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	: H315 - Causes skin irritation H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation H350 - May cause cancer H402 - Harmful to aquatic life H412 - Harmful to aquatic life with long lasting effects
Precautionary statements (GHS-US)	<ul> <li>P202 - Do not handle until all safety precautions have been read and understood P261 - Avoid breathing dust/fume/gas/mist/vapors/spray</li> <li>P272 - Contaminated work clothing must not be allowed out of the workplace</li> <li>P273 - Avoid release to the environment</li> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection</li> <li>P302+P352 - If on skin: Wash with plenty of water/</li> <li>P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing</li> <li>P308+P313 - If exposed or concerned: Get medical advice/attention</li> <li>P332+P313 - If skin irritation occurs: Get medical advice/attention</li> <li>P333+P313 - If skin irritation or rash occurs: Get medical advice/attention</li> <li>P362+P364 - Take off contaminated clothing and wash it before reuse</li> <li>P405 - Store locked up</li> <li>P501 - Dispose of contents/container to</li> </ul>
2.3. Other hazards	
No additional information available	
2.4. Unknown acute toxicity (GHS US	5
Not applicable	
SECTION 3: Composition/Informa	tion on ingredients
3.1. Substance	
Not applicable	
3.2. Mixture	

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Name	Product identifier	%	GHS-US classification
nitric acid	(CAS No) 7697-37-2	1 - 5	Ox. Liq. 3, H272 Met. Corr. 1, H290 Skin Corr. 1A, H314
beryllium nitrate	(CAS No) 13597-99-4	0.1 - 1	Acute Tox. 3 (Oral), H301 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 Carc. 1B, H350 STOT SE 3, H335 STOT RE 1, H372 Aquatic Acute 3, H402 Aquatic Chronic 2, H411
chromium(III) nitrate	(CAS No) 13548-38-4	< 0.1	Skin Sens. 1, H317
iron(III) nitrate	(CAS No) 10421-48-4	< 0.1	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
manganese(II)nitrate	(CAS No) 10377-66-9	< 0.1	Skin Irrit. 2, H315 Eye Irrit. 2A, H319
nickel nitrate	(CAS No) 13138-45-9	< 0.1	Ox. Sol. 2, H272 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Dam. 1, H315 Resp. Sens. 1, H334 Skin Sens. 1, H317 Muta. 2, H341 Carc. 1A, H350 Repr. 1B, H360 STOT RE 1, H372 Aquatic Acute 3, H402 Aquatic Chronic 3, H412
cobalt dinitrate	(CAS No) 10141-05-6	< 0.1	Resp. Sens. 1, H334 Skin Sens. 1, H317 Muta. 2, H341 Carc. 2, H351 Repr. 1B, H360 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
cadmium nitrate	(CAS No) 10325-94-7	< 0.1	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Carc. 1A, H350 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
hexafluoroantimonyic acid	(CAS No) 16950-06-4	< 0.1	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Skin Corr. 1B, H314 Aquatic Chronic 2, H411
arsenic acid	(CAS No) 7778-39-4	< 0.1	Acute Tox. 2 (Oral), H300 Carc. 1A, H350 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
selenious acid	(CAS No) 7783-00-8	< 0.1	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Inhalation), H331 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
lead nitrate	(CAS No) 10099-74-8	< 0.1	Carc. 1B, H350 Repr. 1A, H360 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
thallium(I)nitrate	(CAS No) 10102-45-1	< 0.1	Acute Tox. 2 (Oral), H300 STOT RE 2, H373 Aquatic Acute 2, H401 Aquatic Chronic 2, H411

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Full text of hazard classes and H-statements : see section 16

<b>SECTION 4: First aid measures</b>	S .
4.1. Description of first aid measured	ures
First-aid measures general	: IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	<ul> <li>Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.</li> </ul>
First-aid measures after ingestion	: Call a poison center/doctor/physician if you feel unwell.
4.2. Most important symptoms a	nd effects, both acute and delayed
Symptoms/injuries after skin contact	: May cause an allergic skin reaction. Irritation.
Symptoms/injuries after eye contact	: Eye irritation.
4.3. Indication of any immediate	medical attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measure	ures
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
0	
5.2. Special hazards arising from Reactivity	The product is non-reactive under normal conditions of use, storage and transport.
5.3. Advice for firefighters	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTION 6: Accidental release	e measures
6.1. Personal precautions, protect	ctive equipment and emergency procedures
6.1.1. For non-emergency personn	lel
Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene. Avoid breathing dust/fume/gas/mist/vapors/spray.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Avoid release to the environment. Notify	authorities if product enters sewers or public waters.
6.3. Methods and material for co	ntainment and cleaning up
Methods for cleaning up	: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
For further information refer to section 13	

For further information refer to section 13.

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SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling :	Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Wear personal protective equipment. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray.
Hygiene measures :	Separate working clothes from town clothes. Launder separately. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, including	any incompatibilities

Storage conditions

: Store locked up. Store in a well-ventilated place. Keep cool.

### SECTION 8: Exposure controls/personal protection

8.1. Control parameters

nitric acid (7697-37-2	2)	
ACGIH	ACGIH TWA (ppm)	2 ppm
ACGIH	ACGIH STEL (ppm)	4 ppm
ACGIH	Remark (ACGIH)	URT & eye irr; dental erosion
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	5 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	2 ppm
arsenic acid (7778-3	9-4)	
ACGIH	ACGIH TWA (mg/m <sup>s</sup> )	0.01 mg/m <sup>3</sup> (Arsenic, inorganic compounds (exept Arsine), as As; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
Not applicable		
beryllium nitrate (13	597-99-4)	
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.00005 mg/m³
ACGIH	Remark (ACGIH)	Beryllium sens; chronic beryllium; Skin; DSEN; RSEN; A1
OSHA	Remark (OSHA)	(2) See Table Z-2.
cadmium nitrate (10	325-94-7)	
ACGIH	ACGIH TWA (mg/m³)	0.01 mg/m <sup>3</sup> (Cadmium, compounds, as Cd; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Cadmium, compounds, as Cd; 0.002 mg/m <sup>3</sup> ; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Respirable fraction)
Not applicable		
cobalt dinitrate (101	41-05-6)	
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.02 mg/m <sup>3</sup> (Cobalt, inorganic compounds, as Co; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
Not applicable		
chromium(III) nitrate	e (13548-38-4)	
ACGIH	ACGIH TWA (mg/m <sup>s</sup> )	0.5 mg/m³ (Chromium,inorganic Cr III compounds; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
Not applicable		

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iron(III) nitrate (1042	21-48-4)	
ACGIH	ACGIH TWA (mg/m³)	1 mg/m <sup>3</sup> (Iron salts, soluble, as Fe; USA; Time- weighted average exposure limit 8 h; TLV - Adopted Value)
Not applicable		
manganese(II)nitrate	e (10377-66-9)	
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.02 mg/m <sup>3</sup>
ACGIH	Remark (ACGIH)	CNS impair; A4
nickel nitrate (13138	3-45-9)	
ACGIH	ACGIH TWA (mg/m³)	0.1 mg/m <sup>3</sup> (Nickel, Soluble inorganic compounds (NOS), as Ni; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Inhalable fraction)
Not applicable		
lead nitrate (10099-7	/4-8)	
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.05 mg/m³ (Lead, inorganic compounds, as Pb; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
ACGIH	Remark (ACGIH)	CNS & PNS impair
hexafluoroantimony	vic acid (16950-06-4)	
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.5 mg/m³
ACGIH	Remark (ACGIH)	Skin & URT irr
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	0.5 mg/m³
selenious acid (7783	3-00-8)	
ACGIH	ACGIH TWA (mg/m³)	0.2 mg/m³ (Selenium compounds, as Se; USA; Time- weighted average exposure limit 8 h; TLV - Adopted Value)
ACGIH	Remark (ACGIH)	78.96 Eye & URT irr
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	0.2 mg/m³
thallium(I)nitrate (10	102-45-1)	
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.02 mg/m <sup>3</sup>
ACGIH	Remark (ACGIH)	dam; peripheral neuropathy
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup>

#### 8.2. Exposure controls

Appropriate engineering controls Personal protective equipment

Hand protection Eye protection Skin and body protection Respiratory protection Environmental exposure controls : Ensure good ventilation of the work station.

: Avoid all unnecessary exposure. Gloves. Safety glasses. Protective clothing.



- : Protective gloves.
- : Safety glasses.
- : Wear suitable protective clothing.
- : Wear respiratory protection.
- : Avoid release to the environment.

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SECTION 9: Physical and chemic	al properties
9.1. Information on basic physical a	
Physical state	: Liquid
Color	: Mixture contains one or more component(s) which have the following colour(s): colorless to yellow On exposure to light: red-brown Colourless to white White to light yellow Colorless White Light red Light green Blue-green Light violet Colourless to light rose Green Colourless-white Colourless to light brown Colourless or white On exposure to air: turns dark White or colourless
Odor	<ul> <li>There may be no odour warning properties, odour is subjective and inadequate to warn of overexposure.</li> <li>Mixture contains one or more component(s) which have the following odour(s): irritating/pungent odor asphyxiating odor No data available on odour Odorless Mild odour</li> </ul>
Odor threshold	: No data available
рН	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: 1.09
Solubility	: Miscible with water.
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
9.2. Other information	
No additional information available	

## SECTION 10: Stability and reactivity

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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SECT	ION 11: Toxicological information		
11.1.	Information on toxicological effects		

Acute toxicity

: Not classified

arsenic acid (7778-39-4)	
LD50 oral rat	48 mg/kg (Rat)
ATE US (oral)	48.000 mg/kg body weight
beryllium nitrate (13597-99-4)	100 000 malla bady waight
ATE US (oral)	100.000 mg/kg body weight
cadmium nitrate (10325-94-7)	
LD50 oral rat	300 mg/kg (Rat)
ATE US (oral)	300.000 mg/kg body weight
ATE US (dermal)	1100.000 mg/kg body weight
ATE US (gases)	4500.000 ppmV/4h
ATE US (vapors)	11.000 mg/l/4h
ATE US (dust, mist)	1.500 mg/l/4h
chromium(III) nitrate (13548-38-4)	
LD50 oral rat	3250 mg/kg (Rat)
ATE US (oral)	3250.000 mg/kg body weight
nickel nitrate (13138-45-9)	
ATE US (oral)	500.000 mg/kg body weight
ATE US (gases)	4500.000 ppmV/4h
ATE US (vapors)	11.000 mg/l/4h
ATE US (dust, mist)	1.500 mg/l/4h
lead nitrate (10099-74-8)	
1644 miliale (10033-14-0)	
LD50 oral rat	4665 mg/kg body weight (Rat: Equivalent or similar to OECD 401; Read-across; 5610 mg/kg
LD50 oral rat	4665 mg/kg body weight (Rat; Equivalent or similar to OECD 401; Read-across; 5610 mg/kg bodyweight; Rat; Equivalent or similar to OECD 401; Read-across)
LD50 oral rat ATE US (oral)	
	bodyweight; Rat; Equivalent or similar to OECD 401; Read-across)
ATE US (oral)	bodyweight; Rat; Equivalent or similar to OECD 401; Read-across)
ATE US (oral) hexafluoroantimonyic acid (16950-06-4)	bodyweight; Rat; Equivalent or similar to OECD 401; Read-across) 4665.000 mg/kg body weight
ATE US (oral) hexafluoroantimonyic acid (16950-06-4) ATE US (oral)	bodyweight; Rat; Equivalent or similar to OECD 401; Read-across)         4665.000 mg/kg body weight         500.000 mg/kg body weight
ATE US (oral) hexafluoroantimonyic acid (16950-06-4) ATE US (oral) ATE US (gases)	bodyweight; Rat; Equivalent or similar to OECD 401; Read-across)         4665.000 mg/kg body weight         500.000 mg/kg body weight         4500.000 ppmV/4h
ATE US (oral) hexafluoroantimonyic acid (16950-06-4) ATE US (oral) ATE US (gases) ATE US (vapors)	bodyweight; Rat; Equivalent or similar to OECD 401; Read-across) 4665.000 mg/kg body weight 500.000 mg/kg body weight 4500.000 ppmV/4h 11.000 mg/l/4h
ATE US (oral) hexafluoroantimonyic acid (16950-06-4) ATE US (oral) ATE US (gases) ATE US (vapors) ATE US (dust, mist)	bodyweight; Rat; Equivalent or similar to OECD 401; Read-across) 4665.000 mg/kg body weight 500.000 mg/kg body weight 4500.000 ppmV/4h 11.000 mg/l/4h
ATE US (oral) hexafluoroantimonyic acid (16950-06-4) ATE US (oral) ATE US (gases) ATE US (vapors) ATE US (dust, mist) selenious acid (7783-00-8)	bodyweight; Rat; Equivalent or similar to OECD 401; Read-across) 4665.000 mg/kg body weight 500.000 mg/kg body weight 4500.000 ppmV/4h 11.000 mg/l/4h 1.500 mg/l/4h
ATE US (oral) hexafluoroantimonyic acid (16950-06-4) ATE US (oral) ATE US (gases) ATE US (vapors) ATE US (dust, mist) selenious acid (7783-00-8) ATE US (oral)	bodyweight; Rat; Equivalent or similar to OECD 401; Read-across)           4665.000 mg/kg body weight           500.000 mg/kg body weight           4500.000 ppmV/4h           11.000 mg/l/4h           1.500 mg/l/4h           100.000 mg/kg body weight
ATE US (oral) hexafluoroantimonyic acid (16950-06-4) ATE US (oral) ATE US (gases) ATE US (vapors) ATE US (dust, mist) selenious acid (7783-00-8) ATE US (oral) ATE US (gases)	bodyweight; Rat; Equivalent or similar to OECD 401; Read-across)           4665.000 mg/kg body weight           500.000 mg/kg body weight           4500.000 ppmV/4h           11.000 mg/l/4h           1.500 mg/l/4h           100.000 mg/kg body weight           700.000 ppmV/4h
ATE US (oral)hexafluoroantimonyic acid (16950-06-4)ATE US (oral)ATE US (gases)ATE US (vapors)ATE US (dust, mist)selenious acid (7783-00-8)ATE US (oral)ATE US (oral)ATE US (gases)ATE US (ust, mist)ATE US (ust, mist)ATE US (dust, mist)	bodyweight; Rat; Equivalent or similar to OECD 401; Read-across)           4665.000 mg/kg body weight           500.000 mg/kg body weight           4500.000 ppmV/4h           11.000 mg/l/4h           1.500 mg/l/4h           100.000 mg/kg body weight           700.000 ppmV/4h           3.000 mg/l/4h
ATE US (oral) hexafluoroantimonyic acid (16950-06-4) ATE US (oral) ATE US (gases) ATE US (vapors) ATE US (dust, mist) selenious acid (7783-00-8) ATE US (oral) ATE US (oral) ATE US (gases) ATE US (vapors) ATE US (dust, mist)	bodyweight; Rat; Equivalent or similar to OECD 401; Read-across)           4665.000 mg/kg body weight           500.000 mg/kg body weight           4500.000 ppmV/4h           11.000 mg/l/4h           1.500 mg/l/4h           100.000 mg/kg body weight           700.000 ppmV/4h           3.000 mg/l/4h
ATE US (oral) hexafluoroantimonyic acid (16950-06-4) ATE US (oral) ATE US (gases) ATE US (vapors) ATE US (vapors) ATE US (dust, mist) selenious acid (7783-00-8) ATE US (oral) ATE US (oral) ATE US (gases) ATE US (vapors) ATE US (dust, mist) thallium(l)nitrate (10102-45-1) ATE US (oral)	bodyweight; Rat; Equivalent or similar to OECD 401; Read-across)           4665.000 mg/kg body weight           500.000 mg/kg body weight           4500.000 ppmV/4h           11.000 mg/l/4h           1.500 mg/l/4h           100.000 mg/kg body weight           700.000 ppmV/4h           3.000 mg/l/4h           0.500 mg/l/4h
ATE US (oral) hexafluoroantimonyic acid (16950-06-4) ATE US (oral) ATE US (gases) ATE US (gases) ATE US (vapors) ATE US (dust, mist) selenious acid (7783-00-8) ATE US (oral) ATE US (oral) ATE US (gases) ATE US (gases) ATE US (vapors) ATE US (dust, mist) thallium(l)nitrate (10102-45-1) ATE US (oral) Skin corrosion/irritation	bodyweight; Rat; Equivalent or similar to OECD 401; Read-across)           4665.000 mg/kg body weight           500.000 mg/kg body weight           4500.000 ppmV/4h           11.000 mg/l/4h           1.500 mg/l/4h           100.000 mg/kg body weight           700.000 ppmV/4h           3.000 mg/l/4h           0.500 mg/l/4h           5.000 mg/kg body weight
ATE US (oral)hexafluoroantimonyic acid (16950-06-4)ATE US (oral)ATE US (gases)ATE US (vapors)ATE US (dust, mist)selenious acid (7783-00-8)ATE US (oral)ATE US (oral)ATE US (gases)ATE US (vapors)ATE US (dust, mist)thallium(l)nitrate (10102-45-1)ATE US (oral)Skin corrosion/irritationSerious eye damage/irritation	bodyweight; Rat; Equivalent or similar to OECD 401; Read-across)           4665.000 mg/kg body weight           500.000 mg/kg body weight           4500.000 ppmV/4h           11.000 mg/l/4h           1.500 mg/l/4h           100.000 mg/kg body weight           700.000 ppmV/4h           3.000 mg/l/4h           0.500 mg/l/4h           5.000 mg/kg body weight           700.000 ppmV/4h           3.000 mg/l/4h           0.500 mg/l/4h           0.500 mg/l/4h           Causes skin irritation.
ATE US (oral)hexafluoroantimonyic acid (16950-06-4)ATE US (oral)ATE US (gases)ATE US (vapors)ATE US (dust, mist)selenious acid (7783-00-8)ATE US (oral)ATE US (oral)ATE US (gases)ATE US (vapors)ATE US (ust, mist)thall US (dust, mist)thallium(I)nitrate (10102-45-1)	bodyweight; Rat; Equivalent or similar to OECD 401; Read-across)           4665.000 mg/kg body weight           500.000 ppmV/kh           11.000 mg/l/4h           1.500 mg/kg body weight           100.000 mg/kg body weight           700.000 ppmV/4h           3.000 mg/kg body weight           0.500 mg/l/4h           5.000 mg/kg body weight           100.000 mg/kg body weight           700.000 ppmV/4h           3.000 mg/l/4h           0.500 mg/l/4h           Causes skin irritation.           : Causes serious eye irritation.
ATE US (oral)hexafluoroantimonyic acid (16950-06-4)ATE US (oral)ATE US (gases)ATE US (vapors)ATE US (dust, mist)selenious acid (7783-00-8)ATE US (oral)ATE US (oral)ATE US (vapors)ATE US (vapors)ATE US (dust, mist)thallium(I)nitrate (10102-45-1)ATE US (oral)Skin corrosion/irritationSerious eye damage/irritationRespiratory or skin sensitization	bodyweight; Rat; Equivalent or similar to OECD 401; Read-across)         4665.000 mg/kg body weight         500.000 ppmV/4h         11.000 mg/l/4h         1.500 mg/l/4h         100.000 mg/kg body weight         700.000 ppmV/4h         3.000 mg/l/4h         0.500 mg/l/4h         5.000 mg/kg body weight         700.000 ppmV/4h         3.000 mg/l/4h         0.500 mg/l/4h         Causes skin irritation.         Causes serious eye irritation.         May cause an allergic skin reaction.

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erection and (7772 20 4)	
arsenic acid (7778-39-4) IARC group	2B - Possibly carcinogenic to humans
beryllium nitrate (13597-99-4)	
IARC group	1 - Carcinogenic to humans
cadmium nitrate (10325-94-7)	
IARC group	1 - Carcinogenic to humans
cobalt dinitrate (10141-05-6)	
IARC group	2B - Possibly carcinogenic to humans
chromium(III) nitrate (13548-38-4)	
IARC group	3 - Not classifiable
lead nitrate (10099-74-8)	
IARC group	2A - Probably carcinogenic to humans
selenious acid (7783-00-8)	
IARC group	3 - Not classifiable
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
exposure)	
Aspiration hazard	: Not classified
Aspiration hazard Symptoms/injuries after skin contact Symptoms/injuries after eye contact	<ul> <li>Not classified</li> <li>May cause an allergic skin reaction. Irritation.</li> <li>Eye irritation.</li> </ul>
Symptoms/injuries after skin contact Symptoms/injuries after eye contact	: May cause an allergic skin reaction. Irritation. : Eye irritation.
Symptoms/injuries after skin contact Symptoms/injuries after eye contact SECTION 12: Ecological information	: May cause an allergic skin reaction. Irritation. : Eye irritation.
Symptoms/injuries after skin contact Symptoms/injuries after eye contact SECTION 12: Ecological information 12.1. Toxicity	: May cause an allergic skin reaction. Irritation. : Eye irritation.
Symptoms/injuries after skin contact Symptoms/injuries after eye contact SECTION 12: Ecological information 12.1. Toxicity Ecology - general	: May cause an allergic skin reaction. Irritation. : Eye irritation.
Symptoms/injuries after skin contact Symptoms/injuries after eye contact SECTION 12: Ecological information 12.1. Toxicity Ecology - general nitric acid (7697-37-2)	<ul> <li>May cause an allergic skin reaction. Irritation.</li> <li>Eye irritation.</li> <li>Harmful to aquatic life with long lasting effects. Harmful to aquatic life.</li> </ul>
Symptoms/injuries after skin contact Symptoms/injuries after eye contact SECTION 12: Ecological information 12.1. Toxicity Ecology - general nitric acid (7697-37-2) EC50 Daphnia 1	<ul> <li>May cause an allergic skin reaction. Irritation.</li> <li>Eye irritation.</li> <li>Harmful to aquatic life with long lasting effects. Harmful to aquatic life.</li> </ul>
Symptoms/injuries after skin contact Symptoms/injuries after eye contact SECTION 12: Ecological information 12.1. Toxicity Ecology - general nitric acid (7697-37-2) EC50 Daphnia 1 LC50 fish 2	<ul> <li>May cause an allergic skin reaction. Irritation.</li> <li>Eye irritation.</li> <li>Harmful to aquatic life with long lasting effects. Harmful to aquatic life.</li> </ul>
Symptoms/injuries after skin contact Symptoms/injuries after eye contact SECTION 12: Ecological information 12.1. Toxicity Ecology - general nitric acid (7697-37-2) EC50 Daphnia 1 LC50 fish 2 Threshold limit algae 1	<ul> <li>May cause an allergic skin reaction. Irritation.</li> <li>Eye irritation.</li> <li>Harmful to aquatic life with long lasting effects. Harmful to aquatic life.</li> </ul>
Symptoms/injuries after skin contact Symptoms/injuries after eye contact SECTION 12: Ecological information 12.1. Toxicity Ecology - general nitric acid (7697-37-2) EC50 Daphnia 1 LC50 fish 2 Threshold limit algae 1 arsenic acid (7778-39-4)	<ul> <li>May cause an allergic skin reaction. Irritation.</li> <li>Eye irritation.</li> <li>Harmful to aquatic life with long lasting effects. Harmful to aquatic life.</li> <li>180 mg/l (EC50; 48 h)</li> <li>72 ppm (LC50; 96 h)</li> <li>&gt; 19 mg/l (EC0)</li> </ul>
Symptoms/injuries after skin contact Symptoms/injuries after eye contact SECTION 12: Ecological information 12.1. Toxicity Ecology - general nitric acid (7697-37-2) EC50 Daphnia 1 LC50 fish 2 Threshold limit algae 1 arsenic acid (7778-39-4) LC50 fish 1	<ul> <li>May cause an allergic skin reaction. Irritation.</li> <li>Eye irritation.</li> <li>Harmful to aquatic life with long lasting effects. Harmful to aquatic life.</li> <li>180 mg/l (EC50; 48 h)</li> <li>72 ppm (LC50; 96 h)</li> <li>&gt; 19 mg/l (EC0)</li> </ul>
Symptoms/injuries after skin contact Symptoms/injuries after eye contact SECTION 12: Ecological information 12.1. Toxicity Ecology - general nitric acid (7697-37-2) EC50 Daphnia 1 LC50 fish 2 Threshold limit algae 1 arsenic acid (7778-39-4) LC50 fish 1 EC50 Daphnia 1	<ul> <li>May cause an allergic skin reaction. Irritation.</li> <li>Eye irritation.</li> <li>Harmful to aquatic life with long lasting effects. Harmful to aquatic life.</li> <li>180 mg/l (EC50; 48 h)</li> <li>72 ppm (LC50; 96 h)</li> <li>&gt; 19 mg/l (EC0)</li> </ul>
Symptoms/injuries after skin contact Symptoms/injuries after eye contact SECTION 12: Ecological information 12.1. Toxicity Ecology - general nitric acid (7697-37-2) EC50 Daphnia 1 LC50 fish 2 Threshold limit algae 1 arsenic acid (7778-39-4) LC50 fish 1	<ul> <li>May cause an allergic skin reaction. Irritation.</li> <li>Eye irritation.</li> <li>Harmful to aquatic life with long lasting effects. Harmful to aquatic life.</li> <li>180 mg/l (EC50; 48 h)</li> <li>72 ppm (LC50; 96 h)</li> <li>&gt; 19 mg/l (EC0)</li> </ul>
Symptoms/injuries after skin contact Symptoms/injuries after eye contact SECTION 12: Ecological information 12.1. Toxicity Ecology - general nitric acid (7697-37-2) EC50 Daphnia 1 LC50 fish 2 Threshold limit algae 1 arsenic acid (7778-39-4) LC50 fish 1 EC50 Daphnia 1 Threshold limit algae 1 beryllium nitrate (13597-99-4)	<ul> <li>May cause an allergic skin reaction. Irritation.</li> <li>Eye irritation.</li> <li>Harmful to aquatic life with long lasting effects. Harmful to aquatic life.</li> <li>180 mg/l (EC50; 48 h)</li> <li>72 ppm (LC50; 96 h)</li> <li>&gt; 19 mg/l (EC0)</li> <li>25.6 mg/l (LC50; 96 h)</li> <li>0.93 mg/l (EC50; 672 h)</li> <li>&lt; 0.002 mg/l (EC0)</li> </ul>
Symptoms/injuries after skin contact Symptoms/injuries after eye contact SECTION 12: Ecological information 12.1. Toxicity Ecology - general nitric acid (7697-37-2) EC50 Daphnia 1 LC50 fish 2 Threshold limit algae 1 arsenic acid (7778-39-4) LC50 fish 1 EC50 Daphnia 1 Threshold limit algae 1 beryllium nitrate (13597-99-4) LC50 fish 1	<ul> <li>May cause an allergic skin reaction. Irritation.</li> <li>Eye irritation.</li> <li>Harmful to aquatic life with long lasting effects. Harmful to aquatic life.</li> <li>180 mg/l (EC50; 48 h)</li> <li>72 ppm (LC50; 96 h)</li> <li>&gt; 19 mg/l (EC0)</li> <li>25.6 mg/l (LC50; 96 h)</li> <li>0.93 mg/l (EC50; 672 h)</li> <li>&lt; 0.002 mg/l (EC0)</li> </ul>
Symptoms/injuries after skin contact Symptoms/injuries after eye contact SECTION 12: Ecological information 12.1. Toxicity Ecology - general nitric acid (7697-37-2) EC50 Daphnia 1 LC50 fish 2 Threshold limit algae 1 arsenic acid (7778-39-4) LC50 fish 1 EC50 Daphnia 1 Threshold limit algae 1 beryllium nitrate (13597-99-4) LC50 fish 1 EC50 Daphnia 1	<ul> <li>May cause an allergic skin reaction. Irritation.</li> <li>Eye irritation.</li> <li>Harmful to aquatic life with long lasting effects. Harmful to aquatic life.</li> <li>180 mg/l (EC50; 48 h)</li> <li>72 ppm (LC50; 96 h)</li> <li>&gt; 19 mg/l (EC50; 672 h)</li> <li>&lt; 0.002 mg/l (EC50)</li> <li>8 mg/l (LC50)</li> <li>18 mg/l (EC50)</li> <li>18 mg/l (EC50)</li> <li>24 h)</li> </ul>
Symptoms/injuries after skin contact Symptoms/injuries after eye contact SECTION 12: Ecological information 12.1. Toxicity Ecology - general nitric acid (7697-37-2) EC50 Daphnia 1 LC50 fish 2 Threshold limit algae 1 arsenic acid (7778-39-4) LC50 fish 1 EC50 Daphnia 1 Threshold limit algae 1 beryllium nitrate (13597-99-4) LC50 fish 1	<ul> <li>May cause an allergic skin reaction. Irritation.</li> <li>Eye irritation.</li> <li>Harmful to aquatic life with long lasting effects. Harmful to aquatic life.</li> <li>180 mg/l (EC50; 48 h)</li> <li>72 ppm (LC50; 96 h)</li> <li>&gt; 19 mg/l (EC0)</li> <li>25.6 mg/l (LC50; 96 h)</li> <li>0.93 mg/l (EC50; 672 h)</li> <li>&lt; 0.002 mg/l (EC0)</li> </ul>
Symptoms/injuries after skin contact Symptoms/injuries after eye contact SECTION 12: Ecological information 12.1. Toxicity Ecology - general nitric acid (7697-37-2) EC50 Daphnia 1 LC50 fish 2 Threshold limit algae 1 arsenic acid (7778-39-4) LC50 fish 1 EC50 Daphnia 1 Threshold limit algae 1 beryllium nitrate (13597-99-4) LC50 fish 1 EC50 Daphnia 1	<ul> <li>May cause an allergic skin reaction. Irritation.</li> <li>Eye irritation.</li> <li>Harmful to aquatic life with long lasting effects. Harmful to aquatic life.</li> <li>180 mg/l (EC50; 48 h)</li> <li>72 ppm (LC50; 96 h)</li> <li>&gt; 19 mg/l (EC50; 672 h)</li> <li>&lt; 0.002 mg/l (EC50)</li> <li>8 mg/l (LC50)</li> <li>18 mg/l (EC50)</li> <li>18 mg/l (EC50)</li> <li>24 h)</li> </ul>
Symptoms/injuries after skin contact Symptoms/injuries after eye contact SECTION 12: Ecological information 12.1. Toxicity Ecology - general nitric acid (7697-37-2) EC50 Daphnia 1 LC50 fish 2 Threshold limit algae 1 arsenic acid (7778-39-4) LC50 fish 1 EC50 Daphnia 1 Threshold limit algae 1 beryllium nitrate (13597-99-4) LC50 fish 1 EC50 Daphnia 1 Threshold limit algae 1	<ul> <li>May cause an allergic skin reaction. Irritation.</li> <li>Eye irritation.</li> <li>Harmful to aquatic life with long lasting effects. Harmful to aquatic life.</li> <li>180 mg/l (EC50; 48 h)</li> <li>72 ppm (LC50; 96 h)</li> <li>&gt; 19 mg/l (EC50; 672 h)</li> <li>&lt; 0.002 mg/l (EC50)</li> <li>8 mg/l (LC50)</li> <li>18 mg/l (EC50)</li> <li>18 mg/l (EC50)</li> <li>24 h)</li> </ul>

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cobalt dinitrate (10141-05-6)		
LC50 fish 1	0.490 mg/l (LC50; 672 h)	
EC50 Daphnia 2	0.021 mg/l (EC50; 48 h)	
Threshold limit algae 1	0.018 mg/l (EC50; 96 h)	
nickel nitrate (13138-45-9)		
LC50 fish 1	17.1 mg/l (LC50; 672 h)	
Threshold limit algae 1	0.18 mg/l (EC50; 72 h)	
lead nitrate (10099-74-8)		
EC50 Daphnia 1	0.3 mg/l (LC50; 48 h)	
LC50 fish 2	7.48 mg/l (TLm; 96 h)	
Threshold limit algae 1	0.14 mg/l (EC50)	
selenious acid (7783-00-8)		
LC50 fish 1	0.62 - 0.97 mg/l (LC50; 96 h; Pimephales promelas)	
EC50 Daphnia 2	0.430 mg/l (EC50; 48 h)	
thallium(I)nitrate (10102-45-1)		
LC50 fish 1	180 mg/l (LC50)	
EC50 Daphnia 1	1.6 mg/l (EC50; 24 h)	
2.2. Persistence and degradability		
nitric acid (7697-37-2)		
Persistence and degradability	Biodegradability: Not applicable.	
Biochemical oxygen demand (BOD)	Not applicable	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	
arsenic acid (7778-39-4)	and the second se	
Persistence and degradability	Biodegradability: Not applicable.	
Biochemical oxygen demand (BOD)	Not applicable	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	
beryllium nitrate (13597-99-4)		
Persistence and degradability	Biodegradability: Not applicable.	
Biochemical oxygen demand (BOD)	Not applicable	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	
cadmium nitrate (10325-94-7)		
Persistence and degradability	Biodegradability: Not applicable.	
Biochemical oxygen demand (BOD)	Not applicable	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	
cobalt dinitrate (10141-05-6)		
Persistence and degradability	Biodegradability: Not applicable.	
Biochemical oxygen demand (BOD)	Not applicable	
Chemical oxygen demand (COD)	Not applicable	
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cobalt dinitrate (10141-05-6)	
ThOD	Not applicable
chromium(III) nitrate (13548-38-4)	
Persistence and degradability	Biodegradability: Not applicable. Adsorbs into the soil.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
iron(III) nitrate (10421-48-4)	
Persistence and degradability	Biodegradability: Not applicable.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
manganese(II)nitrate (10377-66-9)	
Persistence and degradability	Biodegradability: Not applicable.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
nickel nitrate (13138-45-9)	
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
lead nitrate (10099-74-8)	
Persistence and degradability	Biodegradability: Not applicable. Adsorbs into the soil.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
hexafluoroantimonyic acid (16950-06-4)	
Persistence and degradability	Biodegradability: Not applicable.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
selenious acid (7783-00-8)	
Persistence and degradability	Biodegradability: Not applicable.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
thallium(I)nitrate (10102-45-1)	
Persistence and degradability	Biodegradability: Not applicable. Adsorbs into the soil.
Biochemical oxygen demand (BOD)	Not applicable

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thallium(I)nitrate (10102-45-1)	
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
2.3. Bioaccumulative potential	
nitric acid (7697-37-2)	
BCF fish 1	<= 1 (BCF)
Log Pow	-2.3 (OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method)
Bioaccumulative potential	Bioaccumulation: Not applicable.
arsenic acid (7778-39-4)	
Bioaccumulative potential	bioaccumulative.
beryllium nitrate (13597-99-4)	
Bioaccumulative potential	Not bioaccumulative.
cadmium nitrate (10325-94-7)	
BCF other aquatic organisms 1	1220 (BCF)
BCF other aquatic organisms 2	603 (BCF; 504 h)
Bioaccumulative potential	bioaccumulative.
cobalt dinitrate (10141-05-6)	
Bioaccumulative potential	Bioaccumulation: No data available.
chromium(III) nitrate (13548-38-4)	
BCF other aquatic organisms 1	17000 (BCF)
BCF other aquatic organisms 2	6500 (BCF)
Bioaccumulative potential	Bioaccumulation: No data available.
iron(III) nitrate (10421-48-4)	
Bioaccumulative potential	Not bioaccumulative.
manganese(II)nitrate (10377-66-9)	
Bioaccumulative potential	Bioaccumulation: No data available.
lead nitrate (10099-74-8)	
Bioaccumulative potential	bioaccumulative.
hexafluoroantimonyic acid (16950-06-4)	
Bioaccumulative potential	Bioaccumulation: No data available.
selenious acid (7783-00-8)	
BCF fish 1	20 (BCF)
Bioaccumulative potential	bioaccumulative.

### 12.4. Mobility in soil

No additional information available

12.5. Other adverse effects	
Effect on the global warming GWPmix comment	<ul><li>No known effects from this product.</li><li>No known effects from this product.</li></ul>
SECTION 13: Disposal consideration	ons
13.1. Waste treatment methods	

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

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Waste disposal recommendations

: Dispose in a safe manner in accordance with local/national regulations.

### **SECTION 14: Transport information**

### **Department of Transportation (DOT)**

In accordance with DOT Not regulated

TDG

Not regulated

### Transport by sea

Not regulated

### Air transport

Not regulated

### **SECTION 15: Regulatory information**

### 15.1. US Federal regulations

nitric acid (7697-37-2)         Listed on the United States TSCA (Toxic Substances Control Act) inventory         Subject to reporting requirements of United States SARA Section 313         CERCLA RQ       1000 lb         SARA Section 302 Threshold Planning       1000 lb         arsenic acid (7778-39-4)       Isted on the United States TSCA (Toxic Substances Control Act) inventory         Subject to reporting requirements of United States SARA Section 313       CERCLA RQ         CERCLA RQ       1 lb         beryllium nitrate (13597-99-4)       Isted on the United States TSCA (Toxic Substances Control Act) inventory         Subject to reporting requirements of United States SARA Section 313       CERCLA RQ         CERCLA RQ       1 lb         beryllium nitrate (13597-99-4)       Isted on the United States TSCA (Toxic Substances Control Act) inventory         Subject to reporting requirements of United States SARA Section 313       CERCLA RQ         CERCLA RQ       1 lb         cadmium nitrate (10325-94-7)       Isted on the United States TSCA (Toxic Substances Control Act) inventory         Listed on the United States TSCA (Toxic Substances Control Act) inventory       Isted on the United States TSCA (Toxic Substances Control Act) inventory         chonalum(III) nitrate (10421-48-4)       Isted on the United States TSCA (Toxic Substances Control Act) inventory         Not subject to reporting requirements of the United Stat		
Subject to reporting requirements of United States       SARA Section 313         CERCLA RQ       1000 lb         BarSenic acid (7778-39-4)       1000 lb         Listed on the United States TSCA (Toxic Substances Control Act) inventory       Subject to reporting requirements of United States         Subject to reporting requirements of United States SARA Section 313       CERCLA RQ       1 lb         beryllium nitrate (13597-99-4)       Listed on the United States TSCA (Toxic Substances Control Act) inventory       Subject to reporting requirements of United States         Subject to reporting requirements of United States SARA Section 313       CERCLA RQ       1 lb         beryllium nitrate (1325-94-7)       Listed on the United States TSCA (Toxic Substances Control Act) inventory       Cohron (Action Substances Control Act) inventory         codati dinitrate (10141-05-6)       Listed on the United States TSCA (Toxic Substances Control Act) inventory       Cercnum(III) nitrate (10421-48-4)         Listed on the United States TSCA (Toxic Substances Control Act) inventory       Control Act) inventory       Control Act) inventory         volt subject to reporting requirements of the United States SARA Section 313       CERCLA RQ       1000 lb         Listed on the United States TSCA (Toxic Substances Control Act) inventory       Control Act) inventory       Control Act) inventory         Volt subject to reporting requirements of the United States SARA Section 313       CERCLA RQ       <	nitric acid (7697-37-2)	
SARA Section 302 Threshold Planning Quantity (TPQ)       1000 lb         arsenic acid (7778-39-4)       Ili         Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313       CERCLA RQ         berglium nitrate (13597-99-4)       Ilib         Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313       CERCLA RQ         CERCLA RQ       1 lb       Ilib         cadmium nitrate (10325-94-7)       Ilib         Listed on the United States TSCA (Toxic Substances Control Act) inventory       Cobalt dinitrate (10141-05-6)         Listed on the United States TSCA (Toxic Substances Control Act) inventory       Cobalt dinitrate (1041-05-6)         Listed on the United States TSCA (Toxic Substances Control Act) inventory       Cohronium(III) nitrate (10421-48-4)         Listed on the United States TSCA (Toxic Substances Control Act) inventory       Not subject to reporting requirements of the United States SARA Section 313         CERCLA RQ       1000 lb       Intrate (10377-66-9)         Listed on the United States TSCA (Toxic Substances Control Act) inventory       Not subject to reporting requirements of United States SCA (Toxic Substances Control Act) inventory         Not subject to reporting requirements of United States SCA (Toxic Substances Control Act) inventory       Subject Intrate (13138-45-9)         Listed on		
Quantity (TPQ)         arsenic acid (7778-39-4)         Listed on the United States TSCA (Toxic Substances Control Act) inventory         Subject to reporting requirements of United States SARA Section 313         CERCLA RQ       1 lb         beryllium nitrate (13597-99-4)         Listed on the United States TSCA (Toxic Substances Control Act) inventory         Subject to reporting requirements of United States SARA Section 313         CERCLA RQ       1 lb         cedmium nitrate (10325-94-7)         Listed on the United States TSCA (Toxic Substances Control Act) inventory         cobalt dinitrate (10141-05-6)         Listed on the United States TSCA (Toxic Substances Control Act) inventory         cobalt dinitrate (10421-48-4)         Listed on the United States TSCA (Toxic Substances Control Act) inventory         Not subject to reporting requirements of the United States SARA Section 313         CERCLA RQ       100 lb         manganese(II)nitrate (10377-66-9)       1000 lb         Listed on the United States TSCA (Toxic Substances Control Act) inventory         Noke Initrate (13184-65-9)       Listed on the United States TSCA (Toxic Substances Control Act) inventory         Listed on the United States TSCA (Toxic Substances Control Act) inventory         Nok subject to reporting requirements of the United States SARA Section 313         CERCLA RQ       1000 lb <td>CERCLA RQ</td> <td>1000 lb</td>	CERCLA RQ	1000 lb
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313 CERCLA RQ 1 lb beryllium nitrate (13597-99-4) Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313 CERCLA RQ 1 lb cadmium nitrate (10325-94-7) Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on the United States TSCA (Toxic Substances Control Act) inventory cobalt dinitrate (10141-05-6) Listed on the United States TSCA (Toxic Substances Control Act) inventory chromium(III) nitrate (13548-38-4) Listed on the United States TSCA (Toxic Substances Control Act) inventory iron(III) nitrate (1421-48-4) Listed on the United States TSCA (Toxic Substances Control Act) inventory Not subject to reporing requirements of the United States SARA Section 313 CERCLA RQ 1000 b manganese(II)nitrate (10377-66-9) Listed on the United States TSCA (Toxic Substances Control Act) inventory Not subject to reporing requirements of tho Substances Control Act) inventory Listed on the United States TSCA (Toxic Substances Control Act) inventory Not subject to reporing requirements of the United States SARA Section 313 CERCLA RQ 1000 lb manganese(II)nitrate (10377-66-9) Listed on the United States TSCA (Toxic Substances Control Act) inventory nickel nitrate (13188-45-9) Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313	0	1000 lb
Subject to reporting requirements of United States SARA Section 313       I         CERCLA RQ       1 lb         beryllium nitrate (13597-99-4)       I         Listed on the United States TSCA (Toxic Substances Control Act) inventory       Subject to reporting requirements of United States SARA Section 313         CERCLA RQ       1 lb       Image: Cercla RQ       Image: Cercla RQ         CERCLA RQ       1 lb       Image: Cercla RQ       Image: Cercla RQ         Cercla RQ       1 lb       Image: Cercla RQ       Image: Cercla RQ         Cercla RQ       1 lb       Image: Cercla RQ       Image: Cercla RQ         Cercla RQ       1 lb       Image: Cercla RQ       Image: Cercla RQ         Cercla RQ       1 lb       Image: Cercla RQ       Image: Cercla RQ         Cercla RQ       1 lb       Image: Cercla RQ       Image: Cercla RQ         Cercla RQ       1 lb       Image: Cercla RQ       Image: Cercla RQ         Listed on the United States TSCA (Toxic Substances Control Act) inventory       Image: Cercla RQ       Image: Cercla RQ         Listed on the United States TSCA (Toxic Substances Control Act) inventory       Image: Cercla RQ       Image: Cercla RQ         Listed on the United States TSCA (Toxic Substances Control Act) inventory       Image: Cercla RQ       Image: Cercla RQ       Image: Cercla RQ       Image	arsenic acid (7778-39-4)	
beryllium nitrate (13597-99-4)         Listed on the United States TSCA (Toxic Substances Control Act) inventory         Subject to reporting requirements of United States SARA Section 313         CERCLA RQ       1 lb         cadmium nitrate (10325-94-7)         Listed on the United States TSCA (Toxic Substances Control Act) inventory         cobalt dinitrate (10141-05-6)         Listed on the United States TSCA (Toxic Substances Control Act) inventory         chromium(III) nitrate (13548-38-4)         Listed on the United States TSCA (Toxic Substances Control Act) inventory         chromium(III) nitrate (10421-48-4)         Listed on the United States TSCA (Toxic Substances Control Act) inventory         Not subject to reporting requirements of the United States SARA Section 313         CERCLA RQ       1000 lb         manganese(II)nitrate (10377-66-9)       1000 lb         Listed on the United States TSCA (Toxic Substances Control Act) inventory         nickel nitrate (1318-45-9)       1000 lb         Listed on the United States TSCA (Toxic Substances Control Act) inventory         nickel nitrate (1318-45-9)       1000 lb         Listed on the United States TSCA (Toxic Substances Control Act) inventory         nickel nitrate (1318-45-9)       1000 lb         Listed on the United States TSCA (Toxic Substances Control Act) inventory         nickel nitrate (1318-45-9)<		
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313 CERCLA RQ 11b cadmium nitrate (10325-94-7) Listed on the United States TSCA (Toxic Substances Control Act) inventory cobalt dinitrate (10141-05-6) Listed on the United States TSCA (Toxic Substances Control Act) inventory chromium(III) nitrate (13548-38-4) Listed on the United States TSCA (Toxic Substances Control Act) inventory iron(III) nitrate (10421-48-4) Listed on the United States TSCA (Toxic Substances Control Act) inventory Not subject to reporing requirements of the United States SARA Section 313 CERCLA RQ 1000 lb manganese(II)nitrate (10377-66-9) Listed on the United States TSCA (Toxic Substances Control Act) inventory nickel nitrate (13138-45-9) Listed on the United States TSCA (Toxic Substances Control Act) inventory subject to reporting requirements of United States SARA Section 313 CERCLA RQ 1000 lb	CERCLA RQ	1 lb
Subject to reporting requirements of United States SARA Section 313         CERCLA RQ       1 lb         cadmium nitrate (10325-94-7)       Isted on the United States TSCA (Toxic Substances Control Act) inventory         cobalt dinitrate (10141-05-6)       Isted on the United States TSCA (Toxic Substances Control Act) inventory         chromium(III) nitrate (13548-38-4)       Isted on the United States TSCA (Toxic Substances Control Act) inventory         chromium(III) nitrate (10421-48-4)       Isted on the United States TSCA (Toxic Substances Control Act) inventory         Not subject to reporting requirements of the United States SARA Section 313       CERCLA RQ         1000 lb       Intrate (10377-66-9)         Listed on the United States TSCA (Toxic Substances Control Act) inventory       Intrate (13138-45-9)         Listed on the United States TSCA (Toxic Substances Control Act) inventory       Intrate (13138-45-9)         Listed on the United States TSCA (Toxic Substances Control Act) inventory       Intrate (13138-45-9)         Listed on the United States TSCA (Toxic Substances Control Act) inventory       Intrate (13138-45-9)         Listed on the United States TSCA (Toxic Substances Control Act) inventory       Interte (13138-45-9)         Listed on the United States TSCA (Toxic Substances Control Act) inventory       Interte (13138-45-9)         Listed on the United States TSCA (Toxic Substances Control Act) inventory       Interte (13138-45-9)         Listed on	beryllium nitrate (13597-99-4)	
cadmium nitrate (10325-94-7)         Listed on the United States TSCA (Toxic Substances Control Act) inventory         cobalt dinitrate (10141-05-6)         Listed on the United States TSCA (Toxic Substances Control Act) inventory         chromium(III) nitrate (13548-38-4)         Listed on the United States TSCA (Toxic Substances Control Act) inventory         iron(III) nitrate (10421-48-4)         Listed on the United States TSCA (Toxic Substances Control Act) inventory         Not subject to reporting requirements of the United States SARA Section 313         CERCLA RQ         1000 lb         manganese(II)nitrate (10377-66-9)         Listed on the United States TSCA (Toxic Substances Control Act) inventory         nickel nitrate (13138-45-9)         Listed on the United States TSCA (Toxic Substances Control Act) inventory         nickel nitrate (13138-45-9)         Listed on the United States TSCA (Toxic Substances Control Act) inventory         Subject to reporting requirements of United States SARA Section 313	le la	
Listed on the United States TSCA (Toxic Substances Control Act) inventory  cobalt dinitrate (10141-05-6) Listed on the United States TSCA (Toxic Substances Control Act) inventory  chromium(III) nitrate (13548-38-4) Listed on the United States TSCA (Toxic Substances Control Act) inventory  iron(III) nitrate (10421-48-4) Listed on the United States TSCA (Toxic Substances Control Act) inventory Not subject to reporing requirements of the United States SARA Section 313 CERCLA RQ  nanganese(II)nitrate (10377-66-9) Listed on the United States TSCA (Toxic Substances Control Act) inventory  nickel nitrate (13138-45-9) Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313	CERCLA RQ	1 lb
cobalt dinitrate (10141-05-6)         Listed on the United States TSCA (Toxic Substances Control Act) inventory         chromium(III) nitrate (13548-38-4)         Listed on the United States TSCA (Toxic Substances Control Act) inventory         iron(III) nitrate (10421-48-4)         Listed on the United States TSCA (Toxic Substances Control Act) inventory         Not subject to reporting requirements of the United States SARA Section 313         CERCLA RQ       1000 lb         manganese(II)nitrate (10377-66-9)         Listed on the United States TSCA (Toxic Substances Control Act) inventory         Nickel nitrate (13138-45-9)         Listed on the United States TSCA (Toxic Substances Control Act) inventory         Subject to reporting requirements of United States SARA Section 313	cadmium nitrate (10325-94-7)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory         chromium(III) nitrate (13548-38-4)         Listed on the United States TSCA (Toxic Substances Control Act) inventory         iron(III) nitrate (10421-48-4)         Listed on the United States TSCA (Toxic Substances Control Act) inventory         Not subject to reporing requirements of the United States SARA Section 313         CERCLA RQ       1000 lb         manganese(II)nitrate (10377-66-9)         Listed on the United States TSCA (Toxic Substances Control Act) inventory         Nickel nitrate (13138-45-9)         Listed on the United States TSCA (Toxic Substances Control Act) inventory         Subject to reporting requirements of United States SARA Section 313	Listed on the United States TSCA (Toxic Substar	ces Control Act) inventory
chromium(III) nitrate (13548-38-4)         Listed on the United States TSCA (Toxic Substances Control Act) inventory         iron(III) nitrate (10421-48-4)         Listed on the United States TSCA (Toxic Substances Control Act) inventory         Not subject to reporing requirements of the United States SARA Section 313         CERCLA RQ       1000 lb         manganese(II)nitrate (10377-66-9)         Listed on the United States TSCA (Toxic Substances Control Act) inventory         nickel nitrate (13138-45-9)         Listed on the United States TSCA (Toxic Substances Control Act) inventory         subject to reporting requirements of United States SARA Section 313	cobalt dinitrate (10141-05-6)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory iron(III) nitrate (10421-48-4) Listed on the United States TSCA (Toxic Substances Control Act) inventory Not subject to reporing requirements of the United States SARA Section 313 CERCLA RQ 1000 lb manganese(II)nitrate (10377-66-9) Listed on the United States TSCA (Toxic Substances Control Act) inventory nickel nitrate (13138-45-9) Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313	Listed on the United States TSCA (Toxic Substar	ces Control Act) inventory
iron(III) nitrate (10421-48-4) Listed on the United States TSCA (Toxic Substances Control Act) inventory Not subject to reporting requirements of the United States SARA Section 313 CERCLA RQ 1000 lb manganese(II)nitrate (10377-66-9) Listed on the United States TSCA (Toxic Substances Control Act) inventory nickel nitrate (13138-45-9) Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313	chromium(III) nitrate (13548-38-4)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Not subject to reporing requirements of the United States SARA Section 313 CERCLA RQ 1000 lb manganese(II)nitrate (10377-66-9) Listed on the United States TSCA (Toxic Substances Control Act) inventory nickel nitrate (13138-45-9) Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313	Listed on the United States TSCA (Toxic Substar	ces Control Act) inventory
Not subject to reporing requirements of the United States SARA Section 313         CERCLA RQ       1000 lb         manganese(II)nitrate (10377-66-9)         Listed on the United States TSCA (Toxic Substances Control Act) inventory         nickel nitrate (13138-45-9)         Listed on the United States TSCA (Toxic Substances Control Act) inventory         subject to reporting requirements of United States SARA Section 313	iron(III) nitrate (10421-48-4)	
manganese(II)nitrate (10377-66-9)         Listed on the United States TSCA (Toxic Substances Control Act) inventory         nickel nitrate (13138-45-9)         Listed on the United States TSCA (Toxic Substances Control Act) inventory         subject to reporting requirements of United States SARA Section 313	Listed on the United States TSCA (Toxic Substar Not subject to reporing requirements of the United	nces Control Act) inventory d States SARA Section 313
Listed on the United States TSCA (Toxic Substances Control Act) inventory nickel nitrate (13138-45-9) Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313	CERCLA RQ	1000 lb
nickel nitrate (13138-45-9) Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313	manganese(II)nitrate (10377-66-9)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313	Listed on the United States TSCA (Toxic Substar	ces Control Act) inventory
Subject to reporting requirements of United States SARA Section 313	nickel nitrate (13138-45-9)	
CERCLA RQ 100 lb		
	CERCLA RQ	100 lb

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lead nitrate (10099-74-8)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313		
CERCLA RQ	10 lb	
hexafluoroantimonyic acid (16950-06-4)		
Listed on the United States TSCA (Toxic Substan	nces Control Act) inventory	
selenious acid (7783-00-8)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313		
CERCLA RQ	10 lb	
SARA Section 302 Threshold Planning Quantity (TPQ)	10000 lb 1,000lb if the substance is solid in powder form with particle size less than 100 microns, or is in solution or molten form	
thallium(I)nitrate (10102-45-1)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313		
CERCLA RQ	100 lb	

### 15.2. International regulations CANADA No additional information available

**EU-Regulations** No additional information available

National regulations No additional information available

**15.3. US State regulations** No additional information available

### **SECTION 16: Other information**

Revision date

: 09/10/2016

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

	H272	May intensify fire; oxidizer
	H290	May be corrosive to metals
F	H300	Fatal if swallowed
-	H301	Toxic if swallowed
	H302	Harmful if swallowed
-	H312	Harmful in contact with skin
F	H314	Causes severe skin burns and eye damage
-	H315	Causes skin irritation
-	H317	May cause an allergic skin reaction
F	H318	Causes serious eye damage
-	H319	Causes serious eye irritation
-	H331	Toxic if inhaled
-	H332	Harmful if inhaled
-	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
F	H335	May cause respiratory irritation
-	H341	Suspected of causing genetic defects
-	H350	May cause cancer
-	H351	Suspected of causing cancer
-	H360	May damage fertility or the unborn child
-	H372	Causes damage to organs through prolonged or repeated exposure
-	H373	May cause damage to organs through prolonged or repeated exposure
-	H400	Very toxic to aquatic life
-	H401	Toxic to aquatic life
-	H402	Harmful to aquatic life
-	H410	Very toxic to aquatic life with long lasting effects
-	H411	Toxic to aquatic life with long lasting effects
-	H412	Harmful to aquatic life with long lasting effects
IFPA h	ealth hazard	2 - Intense or continued exposure could cause temporary
		incapacitation or possible residual injury unless prompt medical attention is given.
IFPA fi	re hazard	: 0 - Materials that will not burn.
IFPA re	eactivity	<ul> <li>0 - Normally stable, even under fire exposure conditions, and are not reactive with water.</li> </ul>
IMIS III	Rating	
lealth		: 4 Severe Hazard - Life-threatening, major or permanent damage may result from single or repeated overexposures
		* - Chronic (long-term) health effects may result from repeated overexposure
lamma	bility	: 0 Minimal Hazard - Materials that will not burn
hysica	1	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NO react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
ersona	al protection	: C
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SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.