

ICP Tuning Standard (XXIV) 15 components; Al

50mg/l; As 50mg/l; Ba 50mg/l; Cd 50mg/l; Co

50mg/l; Cr 50mg/l; Cu 50mg/l; K 500mg/l; Mn

50mg/l; Mo 50mg/l; Ni 50mg/l; Pb 50mg/l; Se

50mg/l; Sr 50mg/l; Zn 50mg/l in HNO3 1%

Equivalent to Merck Ref: 109411

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

. Identification

Product form : Mixture

Name : ICP Tuning Standard (XXIV) 15 components; Al 50mg/l ; As 50mg/l ; Ba 50mg/l ; Cd 50mg/l ;

Co 50mg/l; Cr 50mg/l; Cu 50mg/l; K 500mg/l; Mn 50mg/l; Mo 50mg/l; Ni 50mg/l; Pb 50mg/l

; Se 50mg/l; Sr 50mg/l; Zn 50mg/l in HNO3 1% Equivalent to Merck Ref: 109411

Product code : EQ0075

1.2. Relevant identified uses of the substance 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 data 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 H315

Category 2 Serious eye H319

damage/eye irritation

Category 2A

Hazardous to the H402

aquatic environment -Acute Hazard Category

3

Hazardous to the H412

aquatic environment -Chronic Hazard Category 3

Full text of H statements : see section 16

09/11/2016 EN (English US) Page 1

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

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US)



Signal word (GHS-US) : Warning

Hazard statements (GHS-US)

: H315 - Causes skin irritation
H319 - Causes serious eye irritation

H402 - Harmful to aquatic life

H412 - Harmful to aquatic life with long lasting effects

Precautionary statements (GHS-US) : P273 - Avoid release to the environment

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P302+P352 - If on skin: Wash with plenty of water/...

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing

P332+P313 - If skin irritation occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reuse

P501 - Dispose of contents/container to ..

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

09/11/2016 EN (English US) 2/13

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

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
chromium(III) nitrate	(CAS No) 13548-38-4	< 0.1	Skin Sens. 1, H317
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, H318 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
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
barium nitrate	(CAS No) 10022-31-8	< 0.1	Acute Tox. 4 (Oral), H302
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

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

SECTION 4: First aid measures

4.1. Description of first aid measures

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 : 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.

First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after skin contact : May cause an allergic skin reaction. Irritation.

Symptoms/injuries after eye contact : Eye irritation.

09/11/2016 EN (English US) 3/13

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

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

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 measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

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 containment 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.

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

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)		
ACGIH	ACGIH TWA (ppm)	2 ppm
ACGIH	ACGIH STEL (ppm)	4 ppm

09/11/2016 EN (English US) 4/13

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

nitric acid (7697-37-	-2)	
ACGIH	Remark (ACGIH)	URT & eye irr; dental erosion
OSHA	OSHA PEL (TWA) (mg/m³)	5 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	2 ppm
arsenic acid (7778-	39-4)	
ACGIH	ACGIH TWA (mg/m³)	0.01 mg/m³ (Arsenic, inorganic compounds (exept Arsine), as As; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
Not applicable		·
barium nitrate (1002	22-31-8)	
ACGIH	ACGIH TWA (mg/m³)	0.5 mg/m³ (Barium, soluble compounds, as Ba; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
OSHA	OSHA PEL (TWA) (mg/m³)	0.5 mg/m³
cadmium nitrate (10	0325-94-7)	
ACGIH	ACGIH TWA (mg/m³)	0.01 mg/m³ (Cadmium, compounds, as Cd; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Cadmium, compounds, as Cd; 0.002 mg/m³; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Respirable fraction)
Not applicable		
cobalt dinitrate (10	141-05-6)	
ACGIH	ACGIH TWA (mg/m³)	0.02 mg/m³ (Cobalt, inorganic compounds, as Co; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
Not applicable		
chromium(III) nitrat	e (13548-38-4)	
ACGIH	ACGIH TWA (mg/m³)	0.5 mg/m³ (Chromium,inorganic Cr III compounds; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
Not applicable		
manganese(II)nitrat	te (10377-66-9)	
ACGIH	ACGIH TWA (mg/m³)	0.02 mg/m³
ACGIH	Remark (ACGIH)	CNS impair; A4
nickel nitrate (1313	8-45-9)	<u>'</u>
ACGIH	ACGIH TWA (mg/m³)	0.1 mg/m³ (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-	74-8)	
ACGIH	ACGIH TWA (mg/m³)	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
selenious acid (778	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

09/11/2016 EN (English US) 5/13

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

selenious acid (7783-00-8)		
OSHA	OSHA PEL (TWA) (mg/m³)	0.2 mg/m³

8.2. Exposure controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Personal protective equipment : Avoid all unnecessary exposure. Gloves. Safety glasses. Protective clothing.



Hand protection : Protective gloves.

Eye protection : Safety glasses.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : Wear respiratory protection.

Environmental exposure controls : Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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 White Colourless to white Light red Light green Blue-green Colourless-white Colourless to light rose Green Colourless or white On

exposure to air: turns dark

Odor : There may be no odour warning properties, odour is subjective and inadequate to warn of

overexposure

Mixture contains one or more component(s) which have the following odour(s): irritating/pungent odor asphyxiating odor Odorless No data available on odour

Odor threshold No data available pН No data available Melting point : Not applicable Freezing point No data available Boiling point No data available No data available Flash point 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 : 1.08

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 : No data available Viscosity, dynamic **Explosion limits** : No data available Explosive properties No data available : No data available Oxidizing properties

09/11/2016 EN (English US) 6/13

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

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.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

LD50 oral rat 48 mg/kg (Rat) ATE US (oral) 48.000 mg/kg body weight barium nitrate (10022-31-8) LD50 oral rat 355 mg/kg (Rat) ATE US (oral) 355.000 mg/kg body weight cadmium nitrate (10325-94-7)	
barium nitrate (10022-31-8) LD50 oral rat 355 mg/kg (Rat) ATE US (oral) 355.000 mg/kg body weight cadmium nitrate (10325-94-7)	
LD50 oral rat 355 mg/kg (Rat) ATE US (oral) 355.000 mg/kg body weight cadmium nitrate (10325-94-7)	
ATE US (oral) 355.000 mg/kg body weight cadmium nitrate (10325-94-7)	
cadmium nitrate (10325-94-7)	
1 DEC and not	
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)	
LD50 oral rat 4665 mg/kg body weight (Rat; Equivalent or similar to OECD 401; Read-across; bodyweight; Rat; Equivalent or similar to OECD 401; Read-across)	5610 mg/kg
ATE US (oral) 4665.000 mg/kg body weight	

09/11/2016 EN (English US) 7/13

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

selenious acid (7783-00-8)		
ATE US (oral)	100.000 mg/kg body weight	
ATE US (gases)	700.000 ppmV/4h	
ATE US (vapors)	3.000 mg/l/4h	
ATE US (dust, mist)	0.500 mg/l/4h	
Skin corrosion/irritation	: Causes skin irritation.	
Serious eye damage/irritation	: Causes serious eye irritation.	
Respiratory or skin sensitization	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
arsenic acid (7778-39-4)		
IARC group	2B - Possibly 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	
Specific target organ toxicity (repeated	: Not classified	
exposure)	. Not classified	
Aspiration hazard	: Not classified	
Symptoms/injuries after skin contact	: May cause an allergic skin reaction. Irritation.	
Symptoms/injuries after eye contact	: Eye irritation.	

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Harmful to aquatic life with long lasting effects. Harmful to aquatic life.

nitric acid (7697-37-2)		
EC50 Daphnia 1	180 mg/l (EC50; 48 h)	
LC50 fish 2	72 ppm (LC50; 96 h)	
Threshold limit algae 1	> 19 mg/l (EC0)	
arsenic acid (7778-39-4)		
LC50 fish 1	25.6 mg/l (LC50; 96 h)	
EC50 Daphnia 1	0.93 mg/l (EC50; 672 h)	
Threshold limit algae 1	< 0.002 mg/l (EC0)	

09/11/2016 EN (English US) 8/13

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

barium nitrate (10022-31-8)		
LC50 fish 1	> 1000 mg/l (LC50; 96 h)	
cadmium nitrate (10325-94-7)		
EC50 Daphnia 1	0.04 mg/l (EC50; 48 h)	
LC50 fish 2	0.055 mg/l (LC50; 48 h)	
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)	

12.2. Persistence and degradability

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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)			
Persistence and degradability	Biodegradability: Not applicable.		
Biochemical oxygen demand (BOD)	Not applicable		
Chemical oxygen demand (COD)	Not applicable		
ThOD	Not applicable		
barium nitrate (10022-31-8)	barium nitrate (10022-31-8)		
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.		

09/11/2016 EN (English US) 9/13

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

Chemical oxygen demand (COD) ThOD No Chromium(III) nitrate (13548-38-4) Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) ThOD No manganese(II) nitrate (10377-66-9) Persistence and degradability Biochemical oxygen demand (BOD) No Manganese(III) nitrate (10377-66-9) Persistence and degradability Biochemical oxygen demand (BOD)	ot applicable ot applicable ot applicable iodegradability: Not applicable. Adsorbs into the soil. ot applicable ot applicable ot applicable iodegradability: Not applicable.	
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manganese(II)nitrate (10377-66-9) Persistence and degradability Biochemical oxygen demand (BOD)		
Persistence and degradability Biochemical oxygen demand (BOD) No	iodegradability: Not applicable.	
Biochemical oxygen demand (BOD) No	iodegradability: Not applicable.	
	ot applicable	
Chemical oxygen demand (COD) No	ot applicable	
ThOD No	ot applicable	
nickel nitrate (13138-45-9)		
Biochemical oxygen demand (BOD) No	ot applicable	
Chemical oxygen demand (COD) No	ot applicable	
ThOD No	ot applicable	
lead nitrate (10099-74-8)		
Persistence and degradability Bio	iodegradability: Not applicable. Adsorbs into the soil.	
Biochemical oxygen demand (BOD) No	ot applicable	
Chemical oxygen demand (COD) No	ot applicable	
ThOD No	ot applicable	
selenious acid (7783-00-8)		
Persistence and degradability Bio	iodegradability: Not applicable.	
Biochemical oxygen demand (BOD) No	ot applicable	
Chemical oxygen demand (COD) No	ot applicable	
ThOD No		

12.3. 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.	
barium nitrate (10022-31-8)		
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.	

09/11/2016 EN (English US) 10/13

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

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.	
manganese(II)nitrate (10377-66-9)		
Bioaccumulative potential	Bioaccumulation: No data available.	
lead nitrate (10099-74-8)		
Bioaccumulative potential	bioaccumulative.	
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 : No known effects from this product.

GWPmix comment : No known effects from this product.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

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 Quantity (TPQ)	1000 lb

09/11/2016 EN (English US) 11/13

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

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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	
barium nitrate (10022-31-8)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
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		
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	100 lb	
lead nitrate (10099-74-8)		
Listed on the United States TSCA (Toxic Substar Subject to reporting requirements of United State	, ,	
CERCLA RQ	10 lb	
selenious acid (7783-00-8)		
Listed on the United States TSCA (Toxic Substar Subject to reporting requirements of United State		
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	

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

09/11/2016 EN (English US) 12/13

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

SECTION 16: Other information	ation
Revision date	: 09/10/2016
Full text of H-phrases:	
H272	May intensify fire; oxidizer
H290	May be corrosive to metals
H300	Fatal if swallowed
H301	Toxic if swallowed
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
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
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
H402	Harmful to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects
NFPA health hazard	: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.
NFPA fire hazard	: 0 - Materials that will not burn.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
LIMIC III Dating	V

HMIS III Rating

Health : 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability : 0 Minimal Hazard - Materials that will not burn

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT

react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Personal protection : C

C - Safety glasses, Gloves, Synthetic apron

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.

09/11/2016 EN (English US) 13/13