

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. Identification Product form : Mixture Name : Standard Solution 7 components: Cd 10mg/l : Cr 900mg/l : Ni 200mg/l : Pb 900mg/l : Zn 2900mg/l : Hg 8mg/l in HNO3 5% Equivalent to Merck Ref: 109491 Product code : E Cond65 12. Relevant identified uses of the substance or mixture and uses advised against Use of the substance/mixture : Certified reference material for laboratory use 13. Details of the supplier of the safety data sheet Spectracer UK Ltd. Second Floor, 27 Gloucester Place, London, W1U 8HJ, UDIted Kingdon. Tel: +44 (0) 207 193 9114 Fax.+44 (0) 203 432 4886 Email: contact@spectracer.co.uk Web: www.spectracer.co.uk Web: www.spectracer.co.uk Exertified televent identified uses of mixture SECTION 2: Hazard(s) identification : Tel: +44(0)1833445260 Option 1. Language: English only. For Chemical Emergence Sonly Lieweighy Advisors/ Europe Ltd SECTION 2: Hazard(s) identification Correstive to metals H 290 Catagory 18 H300 Reproductive toxicity H300 Catagory 19 H330 Catagory 10 H314 Catagory 10 H320 Catagory		
1.1. Identification Product form : Mixture Name : Standard Solution 7 components; Cd 10mg/l ; Cr 900mg/l ; Ni 200mg/l ; Pb 900mg/l ; Zn 2500mg/l ; Hg 8mg/l in HN03 5% Equivalent to Merck Ref: 109491 Product code : Standard Solution 7 components; Cd 10mg/l ; Cr 900mg/l ; Cu 800mg/l ; Pb 900mg/l ; Zn 2500mg/l ; Hg 8mg/l in HN03 5% Equivalent to Merck Ref: 109491 Product code : Certified reference material for laboratory use 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 Utd. Second Floor, Zr? Cloucester Place, London, U10 HUL, United Kingdom. Tel: +44 (0) 203 432 4988 Emait: contact@spectracer.co.uk Wet: www.spectracer.co.m For Chemical Emergencies Only Lieweilyn (Safety Advisors) Europe Ltd Second Classpectracer.co.uk Wet: www.spectracer.co.uk Wet: www.spectracer.co.uk Wet: www.spectracer.co.uk Wet: www.spectracer.co.uk Wet: www.spectracer.co.uk Second Classpectracer.co.uk Equity Advisors) Europe Ltd Second Classpectracer.co.uk Second Classpectracer	SECTION 1: Identif	ication
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900mg/i 2n 2500mg/l : Hg 8mg/l in HNO3 5% Equivalent to Merck Ref. 109491 Product code : EQ0065 12. Relevant identified uses of the substance or mixture and uses advised against Use of the substance/mixture : Certified reference material for laboratory use 13. Details of the supplier of the safety data sheet Spectracer UK tdd. Second Floor, 27 (Gloocester Place, London, W1U 8HJ, United Kingdom. Tel: +44 (0) 207 183 8114 Fax: +44 (0) 207 183 8114 Fax: +44 (0) 207 183 8114 Fax: +44 (0) 203 432 4686 Email: contract@spectracer.co.uk Web: www.spectracer.co.uk Web: www.spectracer.co.uk Web: www.spectracer.co.uk Sectrot US: Lazard(s) Identification 21. Classification of the substance or mixture Grassification of the substance or mixture Category 1 Sin corosion/irritation H314 Category 1 Sin corosion/irritation H317 Category 1 Stategory 1 H360 Category 1 Category 1 H360 Category 1 Category 1 H360 Category 1 Stategory 10 Category 10 Category 14 Category 14 Hazard Category 2 H411 H411		: Mixture
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Spectracer UK Ltd. Second Floor, Second Floor, YT Gloucester Place, London, Wi10 BHU, United Kingdom. Fax:+44 (0) 207 193 9114 Fax:+44 (0) 203 432 4686 Email: contact@spectracer.co.uk Web: www.spectracer.co.uk Web: www.spectracer.co.uk Web: www.spectracer.co.uk Landow I.4. Emergency telephone number Tel: +44(0)1933445260 Option 1. Language: English only. For Chemical Emergencies Only Llewellyn (Safety Advisors) Europe Ltd SECTION 2: Hazard(s) identification Lewellyn (Safety Advisors) Europe Ltd SECTION 2: Hazard S) identification Corrosive to metals Category 1 H290 Skin sensitization H317 Category 1 Ston corrosion/irritation Hazardous to the H401 aquatic environment - Acute Hazard Category 2 H401 Pazardous to the H411 aquatic environment - Chronic Hazard H411 Gategory 2 H411	Use of the substance/mix	ture : Certified reference material for laboratory use
Second Floor, 27 Gloucester Place, London, W1U BHJ, United Kingdom. Tel: +44 (0) 207 193 9114 Fax:+44 (0) 203 432 4686 Email: contact@spectracer.co.uk Web: www.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 Corrosive to metals H290 Category 1 Skin corrosion/irritation H314 Category 1 Skin sensitization H317 Category 1 Skin sensitization H317 Category 1 H350 Category 2 H350 Category 2 Category 2 Cat	1.3. Details of the	supplier of the safety data sheet
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Hazardous to the H411 aquatic environment - Chronic Hazard Category 2	Hazardous to the aquatic environment - Acute Hazard Category	H401
Full text of H statements : see section 16	Hazardous to the aquatic environment - Chronic Hazard Category 2	
	Full text of H statements	: see section 16

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2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	HS05 GHS07 GHS08 GHS09
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	 H290 - May be corrosive to metals H314 - Causes severe skin burns and eye damage H317 - May cause an allergic skin reaction H350 - May cause cancer H360 - May damage fertility or the unborn child H401 - Toxic to aquatic life H411 - Toxic to aquatic life with long lasting effects
Precautionary statements (GHS-US)	 P202 - Do not handle until all safety precautions have been read and understood P234 - Keep only in original container P260 - Do not breathe dust/fume/gas/mist/vapors/spray P264 - Wash hands, forearms and face thoroughly after handling P272 - Contaminated work clothing must not be allowed out of the workplace P273 - Avoid release to the environment P280 - Wear protective gloves/protective clothing/eye protection/face 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/shower 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/doctor/ P333+P313 - If skin irritation or rash occurs: Get medical advice/attention P363 - Wash contaminated clothing before reuse P390 - Absorb spillage to prevent material damage P405 - Store locked up 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 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	5 - 15	Ox. Liq. 3, H272 Met. Corr. 1, H290 Skin Corr. 1A, H314
chromium(III) nitrate	(CAS No) 13548-38-4	0.1 - 1	Skin Sens. 1, H317
lead nitrate	(CAS No) 10099-74-8	0.1 - 1	Carc. 1B, H350 Repr. 1A, H360 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
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, H317 Muta. 2, H341 Carc. 1A, H350 Repr. 1B, H360 STOT RE 1, H372 Aquatic Acute 3, H402 Aquatic Chronic 3, H412
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
mercury nitrate	(CAS No) 10045-94-0	< 0.1	Acute Tox. 2 (Oral), H300 Acute Tox. 2 (Dermal), H310 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	: Call a physician immediately.		
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.		
First-aid measures after skin contact	First-aid measures after skin contact : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Call a physician immediately.		
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.		
First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting. Call a physician immediately.		
4.2. Most important symptoms and effects	s, both acute and delayed		
Symptoms/injuries after skin contact	: Burns. May cause an allergic skin reaction.		
Symptoms/injuries after eye contact	: Serious damage to eyes.		
Symptoms/injuries after ingestion	: Burns.		

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

Treat symptomatically.

SECT	SECTION 5: Firefighting measures		
5.1.	Extinguishing media		
Suitable	e extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.	
5.2.	Special hazards arising from the su	bstance or mixture	
Reactiv	ity	: The product is non-reactive under normal conditions of use, storage and transport.	
5.3.	Advice for firefighters		
Protecti	on during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.	

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SECTIO	SECTION 6: Accidental release measures		
6.1.	Personal precautions, protective equipment and emergency procedures		
6.1.1.	For non-emergency personnel		
Emergen	cy procedures :	Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapors/spray. Only qualified personnel equipped with suitable protective equipment may intervene.	
6.1.2.	For emergency responders		
Protective	e 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 rel	ease to the environment. Notify authorities	if product enters sewers or public waters.	
6.3.	Methods and material for containment	and cleaning up	
For conta	inment :	Collect spillage.	
Methods	for cleaning up :	Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.	
Other info	ormation :	Dispose of materials or solid residues at an authorized site.	
6.4.	Reference to other sections		
For furthe	er information refer to section 13.		
SECTIO	ON 7: Handling and storage		
7.1.	Precautions for safe handling		
Precautio	ons for safe handling :	Ensure good ventilation of the work station. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapors/spray. Wear personal protective equipment. 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. Floors, walls and other surfaces in the hazard area must be cleaned regularly.	
Hygiene	measures :	Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Separate working clothes from town clothes. Launder separately.	
7.2.	Conditions for safe storage, including	any incompatibilities	
Storage of	conditions :	Store in corrosive resistant container with a resistant inner liner. Keep only in original container.	

Incompatible materials

: Metals.

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
ACGIH	Remark (ACGIH)	URT & eye irr; dental erosion
OSHA	OSHA PEL (TWA) (mg/m³)	5 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	2 ppm
cadmium nitrate (10325-94-	7)	
ACGIH	ACGIH TWA (mg/m³)	0.01 mg/m ³ (Cadmium, compounds, as Cd; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Cadmium, compounds, as Cd; 0.002 mg/m ³ ; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Respirable fraction)
Not applicable		·

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

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IH TWA (mg/m³)	0.5 mg/m ³ (Chromium,inorganic Cr III compounds; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
IH 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)
IH TWA (mg/m³)	0.05 mg/m ³ (Lead, inorganic compounds, as Pb; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
ark (ACGIH)	CNS & PNS impair
IH TWA (mg/m³)	0.025 mg/m³ (Mercury, Inorganic forms, as Hg; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
)	SIH TWA (mg/m³) SIH TWA (mg/m³) SIH TWA (mg/m³) hark (ACGIH) SIH TWA (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	 In case of insufficient ventilation, wear suitable respiratory equipment. 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 Light green Blue-green Green Colourless-white White to yellow On exposure to light: discolours
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
рН	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
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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	: 1.07
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	
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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

metals.

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

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	

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nickel nitrate (13138-45-9)		
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; 5610 mg/kg bodyweight; Rat; Equivalent or similar to OECD 401; Read-across)	
ATE US (oral)	4665.000 mg/kg body weight	
mercury nitrate (10045-94-0)		
LD50 oral rat	26 mg/kg (Rat)	
LD50 dermal rat	75 mg/kg (Rat)	
ATE US (oral)	26.000 mg/kg body weight	
ATE US (dermal)	75.000 mg/kg body weight	
Skin corrosion/irritation	: Causes severe skin burns and eye damage.	
Serious eye damage/irritation	: Not classified	
Respiratory or skin sensitization	: May cause an allergic skin reaction.	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: May cause cancer.	

cadmium nitrate (10325-94-7)	
IARC group	1 - 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
Reproductive toxicity	: May damage fertility or the unborn child.
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms/injuries after skin contact	: Burns. May cause an allergic skin reaction.
Symptoms/injuries after eye contact	: Serious damage to eyes.
Symptoms/injuries after ingestion	: Burns.

SECTION 12: Ecological information 12.1. Toxicity Ecology - general : Toxic to aquatic life with long lasting effects. Toxic 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) > 19 mg/l (EC0) Threshold limit algae 1 cadmium nitrate (10325-94-7) 0.04 mg/l (EC50; 48 h) EC50 Daphnia 1 LC50 fish 2 0.055 mg/l (LC50; 48 h)

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17.1 mg/l (LC50; 672 h)
0.18 mg/l (EC50; 72 h)

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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)
mercury nitrate (10045-94-0)	
EC50 Daphnia 1	0.0052 mg/l (EC50; 48 h)
LC50 fish 2	0.033 ppm (LC50; 96 h)
Threshold limit algae 1	0.4 ppm (EC50)
12.2. 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
cadmium nitrate (10325-94-7)	
Persistence and degradability	Biodegradability: Not applicable.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	
ThOD	Not applicable
	Not applicable
chromium(III) nitrate (13548-38-4)	Die de werde billen Niet een lies ble. Ad een beide inte the een
Persistence and degradability Biochemical oxygen demand (BOD)	Biodegradability: Not applicable. Adsorbs into the soil.
	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
mercury nitrate (10045-94-0)	
Persistence and degradability	Biodegradability: Not applicable. Biodegradability in soil: Not applicable. Adsorbs into the soil.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
12.3. Bioaccumulative potential	
nitric acid (7697-37-2)	
BCF fish 1	<= 1 (BCF)

BCF fish 1	<= 1 (BCF)
Log Pow	-2.3 (OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method)

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nitric acid (7697-37-2)		
Bioaccumulative potential	Bioaccumulation: Not applicable.	
cadmium nitrate (10325-94-7)		
BCF other aquatic organisms 1	1220 (BCF)	
BCF other aquatic organisms 2	603 (BCF; 504 h)	
Bioaccumulative potential	bioaccumulative.	
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.	
lead nitrate (10099-74-8)		
Bioaccumulative potential	bioaccumulative.	
mercury nitrate (10045-94-0)		
Bioaccumulative potential	bioaccumulative.	
12.4. Mobility in soil		

No additional information available

12.5.	Other adverse effects	
	n the global warming < comment	No known effects from this product.No known effects from this product.

09/11/2016	EN (English US) 9/
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 202
Marine pollutant	
Dangerous for the environment	: Yes
Dependence for the equipagement	Yes
Hazard labels (DOT)	: 8 - Corrosive
Packing group (DOT)	: II - Medium Danger
Class (DOT)	: 8 - Class 8 - Corrosive material 49 CFR 173.136
,	CONTAINS ; nitric acid
Proper Shipping Name (DOT)	: Corrosive liquid, acidic, inorganic, n.o.s.
JN-No.(DOT)	: UN3264
Department of Transportation (DOT) In accordance with DOT Transport document description	: UN3264 Corrosive liquid, acidic, inorganic, n.o.s. (CONTAINS ; nitric acid), 8, II
SECTION 14: Transport information	· · ·
Naste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Naste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
3.1. Waste treatment methods	

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DOT Packaging Bulk (49 CFR 173.xxx) DOT Symbols DOT Special Provisions (49 CFR 172.102)		242 G - Identifies PSN requiring a technical name B2 - MC 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks are not authorized IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized T11 - 6 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	:	154
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	:	1 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)		30 L
DOT Vessel Stowage Location	:	B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded
DOT Vessel Stowage Other	:	40 - Stow "clear of living quarters"
Emergency Response Guide (ERG) Number	:	154
Other information	:	No supplementary information available.
TDG		
Transport document description	:	UN3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (CONTAINS ; nitric acid), 8, II
UN-No. (TDG)	:	UN3264
Proper Shipping Name (TDG)	:	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
TDG Primary Hazard Classes	:	8 - Class 8 - Corrosives
Packing group	:	II - Medium Danger
TDG Special Provisions	:	16 - (1) The technical name of at least one of the most dangerous substances that predominantly contributes to the hazard or hazards posed by the dangerous goods must be shown, in parentheses, on the shipping document following the shipping name in accordance with clause 3.5(1)(c)(ii)(A) of Part 3 (Documentation). The technical name must also be shown, in parentheses, on a small means of containment or on a tag following the shipping name in accordance with subsections 4.11(2) and (3) of Part 4 (Dangerous Goods Safety Marks). (2) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a shipping document or on a small means of containment when Canadian law for domestic transport or an international convention for international transport prohibits the disclosure of the technical name: (a)UN1544, ALKALOID SALTS, SOLID, N.O.S. or ALKALOIDS, SOLID, N.O.S; (b)UN1851, MEDICINE, LIQUID, TOXIC, N.O.S; (c)UN3140, ALKALOID SALTS, LIQUID, N.O.S. or ALKALOIDS, LIQUID, N.O.S; (d)UN3248, MEDICINE, LIQUID, FLAMMABLE, TOXIC, N.O.S; or (e)UN3249, MEDICINE, SOLID, TOXIC, N.O.S. An example in Canada is the "Food and Drugs Act". (3) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a small means of containment: (a)UN2814, INFECTIOUS SUBSTANCE, AFFECTING HUMANS; or (b)UN2900, INFECTIOUS SUBSTANCE, AFFECTING ANIMALS. SOR/2014-306
Explosive Limit and Limited Quantity Index	:	1 L
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index	:	1L

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Transport by sea

- UN-No. (IMDG) Proper Shipping Name (IMDG) Class (IMDG) Packing group (IMDG) Limited quantities (IMDG) Marine pollutant
- : 3264
- : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
- : 8 Corrosive substances
- : II substances presenting medium danger



Air transport

UN-No. (IATA)	: 3264
Proper Shipping Name (IATA)	: Corrosive liquid, acidic, inorganic, n.o.s.
Class (IATA)	: 8 - Corrosives
Packing group (IATA)	: II - Medium Danger

/es

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		
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			
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 Substances Control Act) inventory			
Subject to reporting requirements of United States SARA Section 313			
CERCLA RQ 10 lb			
mercury nitrate (10045-94-0)			
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		

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EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

No additional information available

SECTION 16: Other informatic	on
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
H302	Harmful if swallowed
H310	Fatal in contact with skin
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
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
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
NFPA health hazard	: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention 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.

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HMIS III Rating	
Health	: 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
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.