



Setup Solution - 8 components; 1ug/l each of Be ; Ce ; Fe ; In ; Li ; Mg ; Pb ; U in HNO3 2%/ HCl 5% Equivalent to Perkin Elmer Ref: N8145051

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Date of issue: 07/09/2016

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Version: 1.1

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
Product name : Setup Solution - 8 components; 1ug/l each of Be ; Ce ; Fe ; In ; Li ; Mg ; Pb ; U in HNO3 2%/
HCl 5% Equivalent to Perkin Elmer Ref: N8145051
Product code : EQ0228

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category : Industrial use, Professional use
Use of the substance/mixture : Certified reference material for laboratory use
Function or use category : Laboratory chemicals

1.2.2. Uses advised against

No additional information available

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)1933 445260 Option 1. Language: English only.
For Chemical Emergencies Only
Llewellyn (Safety Advisors) Europe Ltd

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	Beaumont Hospital Beaumont Road 9 Dublin	: +353 1 8379964	
United Kingdom	National Poisons Information Service (NHS Direct)	http://www.npis.org	111 (England & Wales only) or 112 (EU) or 08454 24 24 24 (Scotland)	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Corrosive to metals, H290
Category 1

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

Adverse physicochemical, human health and environmental effects

May be corrosive to metals.

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2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS05

Signal word (CLP) :

Warning

Hazard statements (CLP) :

H290 - May be corrosive to metals

Precautionary statements (CLP) :

P234 - Keep only in original packaging
P390 - Absorb spillage to prevent material damage

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
hydrochloric acid	(CAS-No.) 7647-01-0 (EC-No.) 231-595-7 (EC Index-No.) 017-002-01-X (REACH-no) 01-2119484862-27-XXXX	5 - 15	Met. Corr. 1, H290 Skin Corr. 1B, H314 STOT SE 3, H335
nitric acid	(CAS-No.) 7697-37-2 (EC-No.) 231-714-2 (EC Index-No.) 007-004-00-1 (REACH-no) 01-2119487297-23-XXXX	1 - 5	Ox. Liq. 2, H272 Met. Corr. 1, H290 Skin Corr. 1A, H314
beryllium nitrate substance with a Community workplace exposure limit substance with national workplace exposure limit(s) (BE, BG, CZ, DK, ES, FI, FR, GB, GR, HU, IE, LV, PL, PT, RO, SE)	(CAS-No.) 13597-99-4 (EC-No.) 237-062-5 (EC Index-No.) 004-002-00-2	< 0,05	Acute Tox. 3 (Oral), H301 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Carc. 1B, H350I STOT SE 3, H335 STOT RE 1, H372 Aquatic Chronic 2, H411
iron(III) nitrate substance with national workplace exposure limit(s) (BE, GB, IE)	(CAS-No.) 10421-48-4 (EC-No.) 233-899-5	< 0,05	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
lead nitrate substance listed as REACH Candidate (Lead dinitrate) substance with a Community workplace exposure limit substance with national workplace exposure limit(s) (AT, BE, BG, CZ, DK, ES, FI, FR, GB, HU, IE, LV, NL, PL, PT, RO, SE, SK)	(CAS-No.) 10099-74-8 (EC-No.) 233-245-9 (EC Index-No.) 082-001-00-6	< 0,05	Repr. 1A, H360Df STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
bis(acetato-O)dioxouranium, dihydrate substance with national workplace exposure limit(s) (BE, BG, DK, ES, FI, IE, PT)	(CAS-No.) 6159-44-0 (EC-No.) 208-767-5 (EC Index-No.) 092-002-00-3	< 0,05	Acute Tox. 2 (Oral), H300 Acute Tox. 2 (Inhalation:dust,mist), H330 STOT RE 2, H373 Aquatic Chronic 2, H411
Indium(III) nitrate, pentahydrate substance with national workplace exposure limit(s) (AT, BE, DK, ES, FI, GB, GR, IE, LT, PT, SE)	(CAS-No.) 13465-14-0	< 0,05	Skin Irrit. 2, H315 Eye Irrit. 2, H319

Specific concentration limits:

Name	Product identifier	Specific concentration limits
hydrochloric acid	(CAS-No.) 7647-01-0 (EC-No.) 231-595-7 (EC Index-No.) 017-002-01-X (REACH-no) 01-2119484862-27-XXXX	(C >= 10) STOT SE 3, H335 (10 =<C < 25) Eye Irrit. 2, H319 (10 =<C < 25) Skin Irrit. 2, H315 (C >= 25) Skin Corr. 1B, H314

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Specific concentration limits:

Name	Product identifier	Specific concentration limits
nitric acid	(CAS-No.) 7697-37-2 (EC-No.) 231-714-2 (EC Index-No.) 007-004-00-1 (REACH-no) 01-2119487297-23-XXXX	(5 =<C < 20) Skin Corr. 1B, H314 (C >= 20) Skin Corr. 1A, H314 (C >= 65) Ox. Liq. 3, H272
lead nitrate	(CAS-No.) 10099-74-8 (EC-No.) 233-245-9 (EC Index-No.) 082-001-00-6	(C >= 0,5) STOT RE 2, H373 (C >= 2,5) Repr. 2, H361f

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- 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.
 First-aid measures after eye contact : Rinse eyes with water as a precaution.
 First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

No additional information available

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

Hazardous decomposition products in case of fire : Toxic fumes may be released.

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 : Ventilate spillage area.

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.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.
 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. Wear personal protective equipment.
 Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.



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7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in corrosive resistant container with a resistant inner liner. Keep only in original container. Store in a well-ventilated place. Keep cool.

Incompatible materials : Metals.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

nitric acid (7697-37-2)		
EU	Local name	Nitric acid
EU	IOELV STEL (mg/m ³)	2,6 mg/m ³ (Nitric acid; EU; Short time value; Indicative occupational exposure limit value)
EU	IOELV STEL (ppm)	1 ppm (Nitric acid; EU; Short time value; Indicative occupational exposure limit value)
Austria	Local name	Salpetersäure
Austria	MAK Short time value (mg/m ³)	2,6 mg/m ³
Austria	MAK Short time value (ppm)	1 ppm
Belgium	Local name	Acide nitrique # Salpeterzuur
Belgium	Short time value (mg/m ³)	2,6 mg/m ³
Belgium	Short time value (ppm)	1 ppm
Bulgaria	Local name	Азотна киселина
Bulgaria	OEL STEL (mg/m ³)	2,6 mg/m ³
Bulgaria	OEL STEL (ppm)	1 ppm
Croatia	Local name	Dušična kiselina
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m ³)	2,6 mg/m ³
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (ppm)	1 ppm
Croatia	Naznake (HR)	EU** (naznaka da se radi o tvarima za koje su utvrđene indikativne granične vrijednosti izloženosti prema Direktivi 2006/15/ EC (druga lista)); O (oksidirajuće); C (nagrizajuće)
Czech Republic	Local name	Kyselina dusi ná
Czech Republic	Expoziční limity (PEL) (mg/m ³)	1 mg/m ³
Czech Republic	Expoziční limity (PEL) (ppm)	0,39 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m ³)	2,5 mg/m ³
Czech Republic	Expoziční limity (NPK-P) (ppm)	1 ppm
Denmark	Local name	Salpetersyre
Denmark	Grænseværdie (kortvarig) (mg/m ³)	2,6 mg/m ³
Denmark	Grænseværdie (kortvarig) (ppm)	1 ppm
Denmark	Anmærkninger (DK)	E (betyder, at stoffet har en EF-grænseværdi); S (betyder, at grænseværdien ikke bør overskrides. Værdien gælder for en eksponeringsperiode på 15 minutter)
Estonia	Local name	Lämmastikhape
Estonia	OEL STEL (mg/m ³)	2,6 mg/m ³
Estonia	OEL STEL (ppm)	1 ppm
Finland	Local name	Typpi happo
Finland	HTP-arvo (8h) (mg/m ³)	1,3 mg/m ³
Finland	HTP-arvo (8h) (ppm)	0,5 ppm
Finland	HTP-arvo (15 min)	2,6 mg/m ³



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nitric acid (7697-37-2)		
Finland	HTP-arvo (15 min) (ppm)	1 ppm
France	Local name	Acide nitrique
France	VLE (mg/m ³)	2,6 mg/m ³
France	VLE (ppm)	1 ppm
France	Note (FR)	Valeurs réglementaires indicatives
Germany	Local name	Salpetersäure
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	2,6 mg/m ³
Germany	TRGS 900 Occupational exposure limit value (ppm)	1 ppm
Germany	Remark (TRGS 900)	EU,13,16
Greece	OEL STEL (mg/m ³)	2,6 mg/m ³
Greece	OEL STEL (ppm)	1 ppm
Hungary	Local name	SALÉTROMSAV
Hungary	CK-érték	2,6 mg/m ³
Hungary	Megjegyzések (HU)	i, m; l.
Ireland	Local name	Nitric acid
Ireland	OEL (15 min ref) (mg/m ³)	2,6 mg/m ³
Ireland	OEL (15 min ref) (ppm)	1 ppm
Ireland	Notes (IE)	IOELV
Italy	Local name	Acido nitrico
Italy	OEL STEL (mg/m ³)	2,6 mg/m ³
Italy	OEL STEL (ppm)	1 ppm
Latvia	Local name	Slāpekļskābe
Latvia	OEL TWA (mg/m ³)	2 mg/m ³
Latvia	OEL TWA (ppm)	0,78 ppm
Latvia	OEL STEL (mg/m ³)	2,6 mg/m ³
Latvia	OEL STEL (ppm)	1 ppm
Lithuania	Local name	Nitrato rūgštis (azoto rūgštis)
Lithuania	TPRV (mg/m ³)	2,6 mg/m ³
Lithuania	TPRV (ppm)	1 ppm
Luxembourg	Local name	Acide nitrique
Luxembourg	OEL STEL (mg/m ³)	2,6 mg/m ³
Luxembourg	OEL STEL (ppm)	1 ppm
Malta	Local name	Nitric acid
Malta	OEL STEL (mg/m ³)	2,6 mg/m ³
Malta	OEL STEL (ppm)	1 ppm
Netherlands	Local name	Salpeterzuur
Netherlands	Grenswaarde TGG 15MIN (mg/m ³)	1,3 mg/m ³
Netherlands	Grenswaarde TGG 15MIN (ppm)	0,5 ppm (Salpeterzuur; Netherlands; Short time value; Public occupational exposure limit value)
Poland	Local name	Kwas azotowy(V)
Poland	NDS (mg/m ³)	1,4 mg/m ³
Poland	NDSch (mg/m ³)	2,6 mg/m ³
Portugal	Local name	Ácido nítrico
Portugal	OEL TWA (ppm)	2 ppm
Portugal	OEL STEL (ppm)	4 ppm
Romania	Local name	Acid nitric
Romania	OEL STEL (mg/m ³)	2,6 mg/m ³
Romania	OEL STEL (ppm)	1 ppm



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nitric acid (7697-37-2)		
Slovakia	Local name	Kyselina dusičná
Slovakia	OEL STEL (mg/m ³)	2,6 mg/m ³
Slovakia	OEL STEL (ppm)	1 ppm
Slovenia	Local name	dušikova kislina
Slovenia	OEL TWA (mg/m ³)	2,6 mg/m ³
Slovenia	OEL TWA (ppm)	1 ppm
Slovenia	OEL STEL (mg/m ³)	2,6 mg/m ³
Slovenia	OEL STEL (ppm)	1 ppm
Spain	Local name	Ácido nítrico
Spain	VLA-EC (mg/m ³)	2,6 mg/m ³
Spain	VLA-EC (ppm)	1 ppm
Spain	Notes	VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo. Todos estos agentes químicos figuran al menos en una de las directivas de valores límite indicativos publicadas hasta ahora (ver Anexo C. Bibliografía). Los estados miembros disponen de un tiempo fijado en dichas directivas para su transposición a los valores límites de cada país miembro. Una vez adoptados, estos valores tienen la misma validez que el resto de los valores adoptados por el país).
Sweden	Local name	Salpetersyra
Sweden	nivågränsvärde (NVG) (mg/m ³)	1,3 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	0,5 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	2,6 mg/m ³
Sweden	kortidsvärde (KTV) (ppm)	1 ppm
United Kingdom	Local name	Nitric acid
United Kingdom	WEL STEL (mg/m ³)	2,6 mg/m ³
United Kingdom	WEL STEL (ppm)	1 ppm
Iceland	Local name	Saltpéturssýra
Iceland	OEL (15 min ref) (mg/m ³)	2,6 mg/m ³
Iceland	OEL (15 min ref) (ppm)	1 ppm
Norway	Local name	Salpetersyre
Norway	Grenseverdier (AN) (mg/m ³)	5 mg/m ³
Norway	Grenseverdier (AN) (ppm)	2 ppm
Norway	Merknader (NO)	E (EU har en veiledende grenseverdi for stoffet)
Switzerland	Local name	Salpetersäure
Switzerland	MAK (mg/m ³)	5 mg/m ³
Switzerland	MAK (ppm)	2 ppm
Switzerland	KZGW (mg/m ³)	5 mg/m ³
Switzerland	KZGW (ppm)	2 ppm
Switzerland	Remark (CH)	OAW & Auge, Zahn - NIOSH, OSHA
Australia	Local name	Nitric acid
Australia	TWA (mg/m ³)	5,2 mg/m ³
Australia	TWA (ppm)	2 ppm
Australia	STEL (mg/m ³)	10 mg/m ³
Australia	STEL (ppm)	4 ppm
USA - ACGIH	Local name	Nitric acid
USA - ACGIH	ACGIH TWA (ppm)	2 ppm
USA - ACGIH	ACGIH STEL (ppm)	4 ppm
USA - ACGIH	Remark (ACGIH)	URT & eye irr; dental erosion



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nitric acid (7697-37-2)		
USA - OSHA	Local name	Nitric acid
USA - OSHA	OSHA PEL (TWA) (mg/m ³)	5 mg/m ³
USA - OSHA	OSHA PEL (TWA) (ppm)	2 ppm
hydrochloric acid (7647-01-0)		
EU	Local name	Hydrogen chloride
EU	IOELV TWA (mg/m ³)	8 mg/m ³
EU	IOELV TWA (ppm)	5 ppm
EU	IOELV STEL (mg/m ³)	15 mg/m ³
EU	IOELV STEL (ppm)	10 ppm
Austria	Local name	Chlorwasserstoff
Austria	MAK (mg/m ³)	8 mg/m ³
Austria	MAK (ppm)	5 ppm
Austria	MAK Short time value (mg/m ³)	15 mg/m ³
Austria	MAK Short time value (ppm)	10 ppm
Belgium	Local name	Hydrogène (chlorure d') # Waterstofchloride
Belgium	Limit value (mg/m ³)	8 mg/m ³
Belgium	Limit value (ppm)	5 ppm
Belgium	Short time value (mg/m ³)	15 mg/m ³
Belgium	Short time value (ppm)	10 ppm
Bulgaria	Local name	Хлороводород
Bulgaria	OEL TWA (mg/m ³)	8 mg/m ³
Bulgaria	OEL TWA (ppm)	5 ppm
Bulgaria	OEL STEL (mg/m ³)	15 mg/m ³
Bulgaria	OEL STEL (ppm)	10 ppm
Croatia	Local name	Vodikov klorid
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	8 mg/m ³
Croatia	GVI (granična vrijednost izloženosti) (ppm)	5 ppm
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m ³)	15 mg/m ³
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (ppm)	10 ppm
Croatia	Naznake (HR)	EU* (naznaka da se radi o tvarima za koje su utvrđene indikativne granične vrijednosti izloženosti prema Direktivi 2000/39/ EC (prva lista)); T (otrovno); C (nagrizajuće)
Czech Republic	Local name	Chlorovodik
Czech Republic	Expoziční limity (PEL) (mg/m ³)	8 mg/m ³
Czech Republic	Expoziční limity (PEL) (ppm)	5,43 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m ³)	15 mg/m ³
Czech Republic	Expoziční limity (NPK-P) (ppm)	10,19 ppm
Denmark	Local name	Hydrogenchlorid (Chlorbrinte)
Denmark	Grænseværdie (langvarig) (mg/m ³)	8 mg/m ³
Denmark	Grænseværdie (langvarig) (ppm)	5 ppm
Denmark	Anmærkninger (DK)	E (betyder, at stoffet har en EF-grænseværdi); L (markerer, at grænseværdien er en loftværdi, som ikke på noget tidspunkt må overskrides)
Estonia	Local name	Vesinikkloriid
Estonia	OEL TWA (mg/m ³)	8 mg/m ³
Estonia	OEL TWA (ppm)	5 ppm
Estonia	OEL STEL (mg/m ³)	15 mg/m ³
Estonia	OEL STEL (ppm)	10 ppm

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hydrochloric acid (7647-01-0)		
Finland	Local name	Kloorivety, vedetön
Finland	HTP-arvo (15 min)	7,6 mg/m ³
Finland	HTP-arvo (15 min) (ppm)	5 ppm
France	Local name	Chlorure d'hydrogène (Acide chlorhydrique)
France	VLE (mg/m ³)	7,6 mg/m ³
France	VLE (ppm)	5 ppm
France	Note (FR)	Valeurs réglementaires contraignantes
Germany	Local name	Hydrogenchlorid
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	3 mg/m ³
Germany	TRGS 900 Occupational exposure limit value (ppm)	2 ppm
Germany	Remark (TRGS 900)	DFG,EU,Y
Greece	OEL TWA (mg/m ³)	7 mg/m ³
Greece	OEL TWA (ppm)	5 ppm
Greece	OEL STEL (mg/m ³)	7 mg/m ³
Greece	OEL STEL (ppm)	5 ppm
Hungary	Local name	SÓSAV
Hungary	AK-érték	8 mg/m ³
Hungary	CK-érték	16 mg/m ³
Hungary	Megjegyzések (HU)	i, m; EU1
Ireland	Local name	Hydrogen chloride
Ireland	OEL (8 hours ref) (mg/m ³)	8 mg/m ³
Ireland	OEL (8 hours ref) (ppm)	5 ppm
Ireland	OEL (15 min ref) (mg/m ³)	15 mg/m ³
Ireland	OEL (15 min ref) (ppm)	10 ppm
Ireland	Notes (IE)	IOELV
Italy	Local name	Acido cloridrico
Italy	OEL TWA (mg/m ³)	8 mg/m ³
Italy	OEL TWA (ppm)	5 ppm
Italy	OEL STEL (mg/m ³)	15 mg/m ³
Italy	OEL STEL (ppm)	10 ppm
Latvia	Local name	Hlorūdeņradis
Latvia	OEL TWA (mg/m ³)	8 mg/m ³
Latvia	OEL TWA (ppm)	5 ppm
Latvia	OEL STEL (mg/m ³)	15 mg/m ³
Latvia	OEL STEL (ppm)	10 ppm
Lithuania	Local name	Vandenilio chloridas
Lithuania	IPRV (mg/m ³)	8 mg/m ³
Lithuania	IPRV (ppm)	5 ppm
Lithuania	TPRV (mg/m ³)	15 mg/m ³
Lithuania	TPRV (ppm)	10 ppm
Luxembourg	Local name	Chlorure d'hydrogène
Luxembourg	OEL TWA (mg/m ³)	8 mg/m ³
Luxembourg	OEL TWA (ppm)	5 ppm
Luxembourg	OEL STEL (mg/m ³)	15 mg/m ³
Luxembourg	OEL STEL (ppm)	10 ppm

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hydrochloric acid (7647-01-0)		
Malta	Local name	Hydrogenchloride
Malta	OEL TWA (mg/m ³)	8 mg/m ³
Malta	OEL TWA (ppm)	5 ppm
Malta	OEL STEL (mg/m ³)	15 mg/m ³
Malta	OEL STEL (ppm)	10 ppm
Netherlands	Local name	Zoutzuur
Netherlands	Grenswaarde TGG 8H (mg/m ³)	8 mg/m ³
Netherlands	Grenswaarde TGG 8H (ppm)	5 ppm
Netherlands	Grenswaarde TGG 15MIN (mg/m ³)	15 mg/m ³
Netherlands	Grenswaarde TGG 15MIN (ppm)	10 ppm
Poland	Local name	Chlorowodór
Poland	NDS (mg/m ³)	5 mg/m ³
Poland	NDSch (mg/m ³)	10 mg/m ³
Portugal	Local name	Ácido clorídrico
Portugal	OEL - Ceilings (ppm)	2 ppm
Romania	Local name	Acid clorhidric
Romania	OEL TWA (mg/m ³)	8 mg/m ³
Romania	OEL TWA (ppm)	5 ppm
Romania	OEL STEL (mg/m ³)	15 mg/m ³
Romania	OEL STEL (ppm)	10 ppm
Slovakia	Local name	Chlorovodík
Slovakia	NPHV (priemerná) (mg/m ³)	8 mg/m ³
Slovakia	NPHV (priemerná) (ppm)	5 ppm
Slovakia	OEL STEL (mg/m ³)	15 mg/m ³
Slovakia	OEL STEL (ppm)	10 ppm
Slovenia	Local name	vodikov klorid, brezvodni (klorovodik, brezvodni)
Slovenia	OEL TWA (mg/m ³)	8 mg/m ³
Slovenia	OEL TWA (ppm)	5 ppm
Slovenia	OEL STEL (mg/m ³)	16 mg/m ³
Slovenia	OEL STEL (ppm)	10 ppm
Spain	Local name	Cloruro de hidrógeno
Spain	VLA-ED (mg/m ³)	7,6 mg/m ³
Spain	VLA-ED (ppm)	5 ppm
Spain	VLA-EC (mg/m ³)	15 mg/m ³
Spain	VLA-EC (ppm)	10 ppm
Spain	Notes	VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo. Todos estos agentes químicos figuran al menos en una de las directivas de valores límite indicativos publicadas hasta ahora (ver Anexo C. Bibliografía). Los estados miembros disponen de un tiempo fijado en dichas directivas para su transposición a los valores límites de cada país miembro. Una vez adoptados, estos valores tienen la misma validez que el resto de los valores adoptados por el país).
Sweden	Local name	Saltsyra
Sweden	nivågränsvärde (NVG) (mg/m ³)	3 mg/m ³ 3 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	2 ppm 2 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	6 mg/m ³ 6 mg/m ³

Setup Solution - 8 components; 1ug/l each of Be ; Ce ; Fe ; In ; Li ; Mg ; Pb ; U in HNO₃ 2%/ HCl 5% Equivalent to Perkin Elmer Ref: N8145051

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hydrochloric acid (7647-01-0)		
Sweden	kortidsvärde (KTV) (ppm)	4 ppm 4 ppm
United Kingdom	Local name	Hydrogen chloride
United Kingdom	WEL TWA (mg/m ³)	2 mg/m ³ gas and aerosol mists
United Kingdom	WEL TWA (ppm)	1 ppm gas and aerosol mists
United Kingdom	WEL STEL (mg/m ³)	8 mg/m ³ gas and aerosol mists
United Kingdom	WEL STEL (ppm)	5 ppm gas and aerosol mists
Iceland	Local name	Vetnisklórið (klórvetni)
Iceland	OEL (15 min ref) (mg/m ³)	8 mg/m ³
Iceland	OEL (15 min ref) (ppm)	5 ppm
Norway	Local name	Hydrogenklorid (Saltsyre)
Norway	Grenseverdier (AN) (mg/m ³)	7 mg/m ³
Norway	Grenseverdier (AN) (ppm)	5 ppm
Norway	Merknader (NO)	T (Takverdi er en øyeblikksverdi som angir maksimalkonsentrasjon av et kjemikalie i pustesonen som ikke skal overskrides); E (EU har en veiledende grenseverdi for stoffet)
Switzerland	Local name	Chlorwasserstoff
Switzerland	MAK (mg/m ³)	3 mg/m ³ 3 mg/m ³
Switzerland	MAK (ppm)	2 ppm 2 ppm
Switzerland	KZGW (mg/m ³)	6 mg/m ³ 6 mg/m ³
Switzerland	KZGW (ppm)	4 ppm 4 ppm
Switzerland	Remark (CH)	SSc - OAW ^{KT AN} - DFG, NIOSH, OSHA
Australia	Local name	Hydrogen chloride
USA - ACGIH	Local name	Hydrogen chloride
USA - ACGIH	ACGIH Ceiling (ppm)	2 ppm
USA - ACGIH	Remark (ACGIH)	URT irr
USA - OSHA	Local name	Hydrogen chloride
USA - OSHA	OSHA PEL (Ceiling) (mg/m ³)	7 mg/m ³
USA - OSHA	OSHA PEL (Ceiling) (ppm)	5 ppm
beryllium nitrate (13597-99-4)		
EU	Local name	Beryllium
EU	Notes	SCOEL Recommendations (Ongoing)
Belgium	Local name	Béryllium et ses composés (en Be) # Beryllium en - verbindingen (als Be)
Belgium	Limit value (mg/m ³)	0,002 mg/m ³
Belgium	Short time value (mg/m ³)	0,01 mg/m ³
Belgium	Remark (BE)	C: La mention C signifie que l'agent en question relève du champ d'application de l'arrêté royal du 2 décembre 1993 concernant la protection des travailleurs contre les risques liés à l'exposition à des agents cancérigènes et mutagènes au travail. # De vermelding C betekent dat het betrokken agens valt onder het toepassingsgebied van het koninklijk besluit van 2 december 1993 betreffende de bescherming van de werknemers tegen de risico's van blootstelling aan kankerwekkende en mutagene agentia op het werk
Bulgaria	Local name	Берилий
Bulgaria	OEL TWA (mg/m ³)	0,002 mg/m ³ и съединения (като берилий)
Croatia	Local name	Berilij
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	0,002 mg/m ³

Setup Solution - 8 components; 1ug/l each of Be ; Ce ; Fe ; In ; Li ; Mg ; Pb ; U in HNO3 2%/ HCl 5% Equivalent to Perkin Elmer Ref: N8145051

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beryllium nitrate (13597-99-4)		
Croatia	Naznake (HR)	T+ (vrlo otrovno); Karc. kat. 2 (tvori koje su vjerojatno karcinogene za ljude)
Czech Republic	Local name	Beryllium
Czech Republic	Expoziční limity (PEL) (mg/m ³)	0,001 mg/m ³
Czech Republic	Expoziční limity (NPK-P) (mg/m ³)	0,002 mg/m ³
Czech Republic	Remark (CZ)	S, P
Denmark	Local name	Beryllium, pulver og forbindelser
Denmark	Grænseværdie (langvarig) (mg/m ³)	0,001 mg/m ³ beregnet som Be
Denmark	Anmærkninger (DK)	K (betyder, at stoffet anses for at kunne være kræftfremkaldende)
Estonia	Local name	Berülliumjähendid (arvutatud berülliumile)
Estonia	OEL TWA (mg/m ³)	0,002 mg/m ³
Finland	Local name	Beryllium, metalli
Finland	HTP-arvo (8h) (mg/m ³)	0,0001 mg/m ³
Finland	HTP-arvo (15 min)	0,0004 mg/m ³
Finland	Huomautus (FI)	Be, liukoiset
France	Local name	Béryllium et composés, en Be
France	VME (mg/m ³)	0,002 mg/m ³
France	Note (FR)	Valeurs recommandées/admises; substance classée cancérigène de catégorie 1b
Greece	OEL TWA (mg/m ³)	0,005 mg/m ³
Hungary	Local name	BERILLIUM ÉS VEGYÜLETEI (Be-ra számítva)
Hungary	MK-érték	0,002 mg/m ³
Hungary	Megjegyzések (HU)	k
Ireland	Local name	Beryllium and beryllium compounds (as Be)
Ireland	OEL (8 hours ref) (mg/m ³)	0,0002 mg/m ³
Ireland	Notes (IE)	Carc.1B, Sens., Sk
Latvia	Local name	Berilijsuntā savienojumi
Latvia	OEL TWA (mg/m ³)	0,001 mg/m ³
Poland	Local name	Beryl i jego związki nieorganiczne w przeliczeniu na Be
Poland	NDS (mg/m ³)	0,0002 mg/m ³
Portugal	Local name	Berílio e compostos, expressos em Be
Portugal	OEL TWA (mg/m ³)	0,00005 mg/m ³ I (Fração inalável)
Romania	Local name	Beriliu și compuși (exprimați în Be)
Romania	OEL TWA (mg/m ³)	0,002 mg/m ³
Spain	Local name	Berilio
Spain	VLA-ED (mg/m ³)	0,0002 mg/m ³ elemental 0,0002 mg/m ³ Compuestos de berilio, como Be, excepto los expresamente indicados

Setup Solution - 8 components; 1ug/l each of Be ; Ce ; Fe ; In ; Li ; Mg ; Pb ; U in HNO3 2%/ HCl 5% Equivalent to Perkin Elmer Ref: N8145051 Safety Data Sheet

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beryllium nitrate (13597-99-4)		
Spain	Notes	Sen (Sensibilizante. Véase Apartado 6), r (Esta sustancia tiene establecidas restricciones a la fabricación, la comercialización o el uso en los términos especificados en el "Reglamento (CE) nº 1907/2006 sobre Registro, Evaluación, Autorización y Restricción de sustancias y preparados químicos" (REACH) de 18 de diciembre de 2006 (DOUE L 369 de 30 de diciembre de 2006). Las restricciones de una sustancia pueden aplicarse a todos los usos o sólo a usos concretos. El anexo XVII del Reglamento REACH contiene la lista de todas las sustancias restringidas y especifica los usos que se han restringido).
Sweden	Local name	Beryllium, och föreningar (som Be)
Sweden	nivågränsvärde (NVG) (mg/m³)	0,002 mg/m³ totaldamm
Sweden	Anmärkning (SE)	C (Ämnet är cancerframkallande Risk för cancer finns även vid annan exponering än via inandning. För vissa cancerframkallande ämnen som inte har gränsvärden gäller förbud eller tillståndskrav enligt föreskrifterna om kemiska arbetsmiljörisker); S (Ämnet är sensibiliserande Sensibiliserande ämnen kan ge allergi eller annan överkänslighet. Överkänslighetsbesvären drabbar främst huden eller andningsorganen. Överkänslighet innebär att man reagerar vid kontakt med ämnen som normalt inte ger besvär. Allergi är en undergrupp av överkänslighet som orsakas av reaktioner i kroppens immunsystem. Särskilt låga gränsvärden har fastställts för ämnen med mer uttalat luftvägssensibiliserande egenskaper. Några ämnen med starkt sensibiliserande egenskaper får endast hanteras efter tillstånd från Arbetsmiljöverket, se föreskrifterna om kemiska arbetsmiljörisker. Dessa ämnen har inga gränsvärden men i vissa fall riktvärden); 2 (Med totaldamm menas de partiklar (aerosoler) som fastnar på ett filter i den provtagare som beskrivs i Metodserien, Provtagning av totaldamm och respirabelt damm, Metod nr 1010, Arbetarskyddsstyrelsen, numera Arbetsmiljöverket. Filterdiametern är normalt 37 mm, men kan även vara 25 mm. Trots sitt namn provtas inte den totala mängden luftburna partiklar med denna metod)
United Kingdom	Local name	Beryllium
United Kingdom	WEL TWA (mg/m³)	0,002 mg/m³ Beryllium compounds (as Be); United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	Remark (WEL)	Carc (Capable of causing cancer and/or heritable genetic damage. See paragraphs 49–51)
Iceland	Local name	Beryllíum, duft og sambönd (sem Be)
Iceland	OEL (8 hours ref) (mg/m³)	0,001 mg/m³
Iceland	Notes (IS)	O,K
Switzerland	Local name	Beryllium und seine Verbindungen (als Be berechnet)
Switzerland	MAK (mg/m³)	0,002 mg/m³
Switzerland	Remark (CH)	e(mg/m³) - S C1 _A - Beryll ^{IKT} - BG, HSE, NIOSH
USA - ACGIH	Local name	Beryllium and compounds, as Be
USA - ACGIH	ACGIH TWA (mg/m³)	0,00005 mg/m³
USA - ACGIH	Remark (ACGIH)	Beryllium sens; chronic beryllium; Skin; DSEN; RSEN; A1 (Confirmed Human Carcinogen: The agent is carcinogenic to humans based on the weight of evidence from epidemiologic studies)
USA - OSHA	Local name	Beryllium and beryllium compounds (as Be)
USA - OSHA	Remark (OSHA)	(2) See Table Z-2.

Setup Solution - 8 components; 1ug/l each of Be ; Ce ; Fe ; In ; Li ; Mg ; Pb ; U in HNO3 2%/ HCl 5% Equivalent to Perkin Elmer Ref: N8145051

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iron(III) nitrate (10421-48-4)		
Belgium	Limit value (mg/m ³)	1 mg/m ³ (Fer (sels solubles) (en Fe); Belgium; Time-weighted average exposure limit 8 h)
Ireland	Local name	Iron salts (as Fe)
Ireland	OEL (8 hours ref) (mg/m ³)	1 mg/m ³
Ireland	OEL (15 min ref) (mg/m ³)	2 mg/m ³
United Kingdom	Local name	Iron salts
United Kingdom	WEL TWA (mg/m ³)	1 mg/m ³ (as Fe)
United Kingdom	WEL STEL (mg/m ³)	2 mg/m ³ (as Fe)
Australia	Local name	Iron salts, soluble (as Fe)
Australia	TWA (mg/m ³)	1 mg/m ³
USA - ACGIH	ACGIH TWA (mg/m ³)	1 mg/m ³ (Iron salts, soluble, as Fe; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
Indium(III) nitrate, pentahydrate (13465-14-0)		
Austria	Local name	Indium und seine Verbindungen
Austria	MAK (mg/m ³)	0,1 mg/m ³
Austria	MAK Short time value (mg/m ³)	0,2 mg/m ³
Belgium	Local name	Indium et composés (en In) # Indium en -verbindingen (als In)
Belgium	Limit value (mg/m ³)	0,1 mg/m ³
Croatia	Local name	Indij i spojevi (kao In)
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	0,1 mg/m ³
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m ³)	0,3 mg/m ³
Denmark	Local name	Indium, pulver, støv og forbindelser
Denmark	Grænseværdie (langvarig) (mg/m ³)	0,1 mg/m ³ beregnet som In
Finland	Local name	Indium, metalli
Finland	HTP-arvo (8h) (mg/m ³)	0,1 mg/m ³
Finland	Huomautus (FI)	In
Greece	OEL TWA (mg/m ³)	1 mg/m ³
Greece	OEL STEL (mg/m ³)	1 mg/m ³
Ireland	Local name	Indium & Compounds (as In)
Ireland	OEL (8 hours ref) (mg/m ³)	0,1 mg/m ³
Ireland	OEL (15 min ref) (mg/m ³)	0,3 mg/m ³
Lithuania	Local name	Indis
Lithuania	IPRV (mg/m ³)	0,1 mg/m ³ (ir neorganiniai jo junginiai); (kaip In)
Portugal	Local name	Índio e compostos, expressos em In
Portugal	OEL TWA (mg/m ³)	0,1 mg/m ³
Slovenia	Local name	indij in njegove spojine
Slovenia	OEL TWA (mg/m ³)	0,1 mg/m ³
Spain	Local name	Indio
Spain	VLA-ED (mg/m ³)	0,1 mg/m ³ elemental 0,1 mg/m ³ Compuestos de Indio, como In
Sweden	Local name	Indium och oorg föreningar (som In)
Sweden	nivågränsvärde (NVG) (mg/m ³)	0,1 mg/m ³ totaldamm

Setup Solution - 8 components; 1ug/l each of Be ; Ce ; Fe ; In ; Li ; Mg ; Pb ; U in HNO3 2%/ HCl 5% Equivalent to Perkin Elmer Ref: N8145051

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Indium(III) nitrate, pentahydrate (13465-14-0)		
Sweden	Anmärkning (SE)	2 (Med totaldamm menas de partiklar (aerosoler) som fastnar på ett filter i den provtagare som beskrivs i Metodserien, Provtagning av totaldamm och respirabelt damm, Metod nr 1010, Arbetarskyddsstyrelsen, numera Arbetsmiljöverket. Filterdiametern är normalt 37 mm, men kan även vara 25 mm. Trots sitt namn provtas inte den totala mängden luftburna partiklar med denna metod)
United Kingdom	Local name	Indium
United Kingdom	WEL TWA (mg/m ³)	0,1 mg/m ³ and compounds (as In)
United Kingdom	WEL STEL (mg/m ³)	0,3 mg/m ³ and compounds (as In)
Iceland	Local name	Índíum, duft, ryk og bindiefni, sem In
Iceland	OEL (8 hours ref) (mg/m ³)	0,1 mg/m ³
Switzerland	Local name	Indium und seine Verbindungen (als In berechnet)
Switzerland	MAK (mg/m ³)	0,1 mg/m ³
Switzerland	Remark (CH)	e(mg/m ³) - Lunge, Zahn - NIOSH, OSHA
USA - ACGIH	Local name	Indium and compounds, as In
USA - ACGIH	ACGIH TWA (mg/m ³)	0,1 mg/m ³
USA - ACGIH	Remark (ACGIH)	Pulm edema; pneumonitis
lead nitrate (10099-74-8)		
EU	Local name	Lead and its inorganic compounds
EU	IOELV TWA (mg/m ³)	15 mg/m ³ (Inorganic lead and its compounds; EU; Time-weighted average exposure limit 8 h; Binding occupational exposure limit value)
EU	Notes	SCOEL Recommendations (2002)
Austria	Local name	Blei und seine Verbindungen außer Bleiarsenat, Bleichromat, Bleichromatoxid und Alkylbleiverbindungen
Austria	MAK (mg/m ³)	0,1 mg/m ³
Austria	MAK Short time value (mg/m ³)	0,4 mg/m ³
Belgium	Local name	Plomb inorg. (poussières et fumées) (en Pb) # Lood, anorganisch, stof en rook, als Pb
Belgium	Limit value (mg/m ³)	0,15 mg/m ³ (Plomb inorg. (poussières et fumées) (en Pb); Belgium; Time-weighted average exposure limit 8 h)
Bulgaria	Local name	Олово
Bulgaria	OEL TWA (mg/m ³)	0,05 mg/m ³ и неорганични съединения
Croatia	Local name	Olovo i njegovi anorganski spojevi (kao Pb)*
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	0,15 mg/m ³
Croatia	Naznake (HR)	EU0 (naznaka da se radi o tvarima za koje su utvrđene obvezujuće granične vrijednosti izloženosti prema Direktivi 2003/18/ EC, Direktivi 99/38/EC i Direktivi 98/24/EC); T (otrovno); N (opasno za okoliš); Repr. kat. 1 (tvari za koje se zna da smanjuju plodnost kod ljudi i/ili – tvari za koje se zna da iskazuju razvojnu toksičnost kod ljudi); Repr. kat. 3 (tvari za koje se pretpostavlja da bi mogle smanjiti plodnost kod ljudi i/ili – tvari za koje se pretpostavlja da bi mogle iskazati razvojnu otrovnost kod ljudi)
Czech Republic	Local name	Olovo
Czech Republic	Expoziční limity (PEL) (mg/m ³)	0,05 mg/m ³
Czech Republic	Expoziční limity (NPK-P) (mg/m ³)	0,2 mg/m ³
Czech Republic	Remark (CZ)	P*
Denmark	Local name	Bly, pulver, støv, røg og uorganiske forbindelser
Denmark	Grænseværdie (langvarig) (mg/m ³)	0,05 mg/m ³ beregnet som Pb
Denmark	Anmærkninger (DK)	E (betyder, at stoffet har en EF-grænseværdi)

Setup Solution - 8 components; 1ug/l each of Be ; Ce ; Fe ; In ; Li ; Mg ; Pb ; U in HNO₃ 2%/ HCl 5% Equivalent to Perkin Elmer Ref: N8145051

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lead nitrate (10099-74-8)		
Estonia	Local name	Plii j aanorgaanilised ühendid, (arvutatudpliile) kogutolm
Estonia	OEL TWA (mg/m ³)	0,1 mg/m ³
Finland	Local name	Lyijy, metalli
Finland	HTP-arvo (8h) (mg/m ³)	0,1 mg/m ³
Finland	Huomautus (FI)	Pb, melu, liite 3 (SITOVAT RAJA-ARVOT)
France	VME (mg/m ³)	0,1 mg/m ³ (Plomb métallique et composés, en Pb; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante)
Hungary	Local name	ÓLOM és SZERVETLEN VEGYÜLETEI (Pb-ra számítva)
Hungary	AK-érték	0,15 mg/m ³
Hungary	Megjegyzések (HU)	i; III.
Ireland	Local name	Lead
Ireland	OEL (8 hours ref) (mg/m ³)	0,15 mg/m ³
Ireland	Notes (IE)	Repr.1A, BOELV
Latvia	Local name	Svinsuntāneorganiskie savienojumi,(pēcsvina)
Latvia	OEL TWA (mg/m ³)	0,005 mg/m ³
Latvia	OEL STEL (mg/m ³)	0,01 mg/m ³
Netherlands	Local name	Lood
Netherlands	Grenswaarde TGG 8H (mg/m ³)	0,15 mg/m ³ (en anorganische loodverbindingen)
Netherlands	Remark (MAC)	(zie tevens artikel 4.19a Arbeidsomstandighedenregeling)
Poland	Local name	Ołów i jego związki nieorganiczne w przeliczeniu na Pb
Poland	NDS (mg/m ³)	0,05 mg/m ³
Portugal	Local name	Chumbo elementar e compostos inorgânicos , expressos em Pb
Portugal	OEL TWA (mg/m ³)	0,05 mg/m ³
Romania	Local name	Plumb și compuși (în afară de PbS)
Romania	OEL TWA (mg/m ³)	0,05 mg/m ³
Romania	OEL STEL (mg/m ³)	0,1 mg/m ³
Slovakia	Local name	Olovo a jeho anorganické zlúčeniny (ako Pb)
Slovakia	NPHV (priemerná) (mg/m ³)	0,15 mg/m ³ respirabilná frakcia 0,5 mg/m ³ inhalovateľná frakcia
Slovenia	Local name	svinec in njegove spojine (računano kot Pb) razen svinčevega arzenata, svinčevega kromata in alkilsvinčevih spojin
Slovenia	OEL TWA (mg/m ³)	0,1 mg/m ³
Slovenia	OEL STEL (mg/m ³)	0,4 mg/m ³
Spain	Local name	Plomo
Spain	VLA-ED (mg/m ³)	0,15 mg/m ³ elemental 0,15 mg/m ³ Compuestos inorgánicos de plomo, como Pb
Spain	Notes	k (Véase el Real Decreto 374/2001, de 6 de abril (BOE nº 104 de 1 de mayo de 2001), sobre la protección de la salud y seguridad de los trabajadores contra los riesgos relacionados con los agentes químicos durante el trabajo), VLB® (Agente químico que tiene Valor Límite Biológico específico en este documento), TR1A (Cuando las pruebas utilizadas para la clasificación procedan principalmente de datos en humanos).

Setup Solution - 8 components; 1ug/l each of Be ; Ce ; Fe ; In ; Li ; Mg ; Pb ; U in HNO₃ 2%/ HCl 5% Equivalent to Perkin Elmer Ref: N8145051

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lead nitrate (10099-74-8)		
Sweden	Local name	Bly, och oorg. föreningar (som Pb)
Sweden	nivågränsvärde (NVG) (mg/m ³)	0,05 mg/m ³ respirabelt damm 0,1 mg/m ³ inhalerbart damm
Sweden	Anmärkning (SE)	B (Ämnet kan orsaka hörselskada Exponering för ämnet nära det befintliga yrkeshygieniska gränsvärdet och vid samtidig exponering för buller nära insatsvärdet 80 dB kan orsaka hörselskada); M (Medicinska kontroller kan krävas för hantering av ämnet. Se vidare föreskrifterna om medicinska kontroller i arbetslivet. För visa ämnen ska arbetsgivaren erbjuda läkarundersökning och för andra ämnen gäller krav på periodisk läkarundersökning och tjänstbarhetsbedömning. Se föreskrifterna om kemiska arbetsmiljörisiker); R (Ämnet är reproduktionsstörande Med reproduktionsstörande ämnen avses ämnen som kan medföra skadliga effekter på fortplantningsförmågan eller avkommans utveckling. Se även föreskrifterna om kemiska arbetsmiljörisiker och om gravida och ammande arbetstagare); 2 (Med respirabelt damm menas den dammfraction som definieras i svensk standard SS-EN 481, Arbetsplatsluft – Partikelstorleksfraktioner för mätning av luftburna partiklar, Utgåva 1, 1993, punkt 2.11 och som har en provtagningskaraktäristik enligt punkt 5.3); 14 (För bly och kadmium finns biologiska gränsvärden, se föreskrifterna om medicinska kontroller i arbetslivet)
United Kingdom	WEL TWA (mg/m ³)	15 mg/cm ³ Lead other than lead alkyls; United Kingdom; Time-weighted average exposure limit 8 h; Occupational exposure limit (Control of lead at work)
Iceland	Local name	Blý, duft, ryk, reykur, ólfræn sambönd, sem Pb
Iceland	OEL (8 hours ref) (mg/m ³)	0,05 mg/m ³
Switzerland	Local name	Blei und seine Verbindungen, außer Alkylverbindungen (als Pb berechnet)
Switzerland	MAK (mg/m ³)	0,1 mg/m ³
Switzerland	KZGW (mg/m ³)	0,8 mg/m ³
Switzerland	Remark (CH)	e(mg/m ³) - B C2 R2 _F R1 _{AD} SS _B - NS, Blut - HSE, NIOSH
Australia	Local name	Lead, inorganic dusts & fumes (as Pb)
Australia	TWA (mg/m ³)	0,15 mg/m ³
Australia	Remark (AU)	(f) Exposure standard is under review.
USA - ACGIH	Local name	Lead
USA - ACGIH	ACGIH TWA (mg/m ³)	0,05 mg/m ³ (Lead, inorganic compounds, as Pb; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
USA - ACGIH	Remark (ACGIH)	CNS & PNS impair
bis(acetato-O)dioxouranium, dihydrate (6159-44-0)		
Belgium	Local name	Uranium (état naturel et composés de l') (en U) # Uraan (natuurlijk en - verbindingen) (als U)
Belgium	Limit value (mg/m ³)	0,2 mg/m ³
Belgium	Short time value (mg/m ³)	0,6 mg/m ³
Bulgaria	Local name	Уран
Bulgaria	OEL TWA (mg/m ³)	0,2 mg/m ³ неразтворими съединения (като уран) 0,05 mg/m ³ разтворими съединения (като уран)
Bulgaria	OEL STEL (mg/m ³)	0,6 mg/m ³ неразтворими съединения (като уран)
Denmark	Local name	Uranforbindelser
Denmark	Grænseværdie (langvarig) (mg/m ³)	0,2 mg/m ³ beregnet som U
Estonia	Local name	Uraani ühendid (arvutatuduraanile)
Estonia	OEL TWA (mg/m ³)	0,2 mg/m ³

Setup Solution - 8 components; 1ug/l each of Be ; Ce ; Fe ; In ; Li ; Mg ; Pb ; U in HNO3 2%/ HCl 5% Equivalent to Perkin Elmer Ref: N8145051

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bis(acetato-O)dioxouranium, dihydrate (6159-44-0)		
Finland	Local name	Uraani ja sen yhdisteet, liukenemattomat
Finland	HTP-arvo (8h) (mg/m ³)	0,2 mg/m ³ 0,05 mg/m ³
Finland	Huomautus (FI)	U
Ireland	Local name	Uranium compounds, natural, soluble, (as U)
Ireland	OEL (8 hours ref) (mg/m ³)	0,2 mg/m ³
Ireland	OEL (15 min ref) (mg/m ³)	0,6 mg/m ³
Portugal	Local name	Urânio (natural) Compostos solúveis e insolúveis, expressos em U
Portugal	OEL TWA (mg/m ³)	0,2 mg/m ³
Portugal	OEL STEL (mg/m ³)	0,6 mg/m ³
Spain	Local name	Uranio
Spain	VLA-ED (mg/m ³)	0,2 mg/m ³ natural 0,2 mg/m ³ Compuestos solubles e insolubles de uranio, como U
Spain	VLA-EC (mg/m ³)	0,6 mg/m ³ natural 0,6 mg/m ³ Compuestos solubles e insolubles de uranio, como U
Spain	Notes	c (Los términos "soluble" e "insoluble" se entienden con referencia al agua).
Iceland	Local name	Úransambönd, sem U
Iceland	OEL (8 hours ref) (mg/m ³)	0,2 mg/m ³
Switzerland	Local name	Uran und seine Verbindungen (als U berechnet)
Switzerland	MAK (mg/m ³)	0,2 mg/m ³
Switzerland	Remark (CH)	e(mg/m ³) - H - Niere - OSHA, s. auch Strahlenschutzverordnung

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



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
Colour	: No data available
Odour	: No data available
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available



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Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 1,06
Solubility	: Miscible with water.
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: 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

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

lead nitrate (10099-74-8)

LD50 oral rat	4665 mg/kg bodyweight (Rat; Equivalent or similar to OECD 401; Read-across; 5610 mg/kg bodyweight; Rat; Equivalent or similar to OECD 401; Read-across)
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Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

Setup Solution - 8 components; 1ug/l each of Be ; Ce ; Fe ; In ; Li ; Mg ; Pb ; U in HNO₃ 2%/ HCl 5% Equivalent to Perkin Elmer Ref: N8145051 Safety Data Sheet

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SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

nitric acid (7697-37-2)	
LC50 fish 2	72 ppm (LC50; 96 h)
EC50 Daphnia 1	180 mg/l (EC50; 48 h)
Threshold limit algae 1	> 19 mg/l (EC0)
hydrochloric acid (7647-01-0)	
LC50 other aquatic organisms 2	250 (240 - 260) mg/l (48h) Crustaceans; Portmann, J.E., and K.W. Wilson 1971. The Toxicity of 140 Substances to the Brown Shrimp and Other Marine Animals. Shellfish Information Leaflet No.22 (2nd Ed.), Ministry of Agric.Fish.Food, Fish.Lab.Burnham-on-Crouch, Essex, and Fish Exp.Station Conway, North Wales :12 p.
beryllium nitrate (13597-99-4)	
LC50 fish 1	8 mg/l (LC50)
EC50 Daphnia 1	18 mg/l (EC50; 24 h)
Threshold limit algae 1	0,03 mg/l (EC0)
lead nitrate (10099-74-8)	
LC50 fish 2	7,48 mg/l (TLM; 96 h)
EC50 Daphnia 1	0,3 mg/l (LC50; 48 h)
Threshold limit algae 1	0,14 mg/l (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
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
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
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

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.

Setup Solution - 8 components; 1ug/l each of Be ; Ce ; Fe ; In ; Li ; Mg ; Pb ; U in HNO3 2%/ HCl 5% Equivalent to Perkin Elmer Ref: N8145051 Safety Data Sheet

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beryllium nitrate (13597-99-4)	
Bioaccumulative potential	Not bioaccumulative.
iron(III) nitrate (10421-48-4)	
Bioaccumulative potential	Not bioaccumulative.
lead nitrate (10099-74-8)	
Bioaccumulative potential	bioaccumulable.

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available






SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
3264	3264	3264	3264	3264
14.2. UN proper shipping name				
CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (hydrochloric acid ; nitric acid)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (hydrochloric acid ; nitric acid)	Corrosive liquid, acidic, inorganic, n.o.s. (hydrochloric acid ; nitric acid)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (hydrochloric acid ; nitric acid)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (hydrochloric acid ; nitric acid)
Transport document description				
UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (hydrochloric acid ; nitric acid), 8, III, (E)	UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (hydrochloric acid ; nitric acid), 8, III	UN 3264 Corrosive liquid, acidic, inorganic, n.o.s. (hydrochloric acid ; nitric acid), 8, III	UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (hydrochloric acid ; nitric acid), 8, III	UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (hydrochloric acid ; nitric acid), 8, III
14.3. Transport hazard class(es)				
8	8	8	8	8
				
14.4. Packing group				
III	III	III	III	III
14.5. Environmental hazards				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
No supplementary information available				

14.6. Special precautions for user

- Overland transport

Classification code (ADR) : C1
Special provisions (ADR) : 274
Limited quantities (ADR) : 5I
Excepted quantities (ADR) : E1

Setup Solution - 8 components; 1ug/l each of Be ; Ce ; Fe ; In ; Li ; Mg ; Pb ; U in HNO3 2%/ HCl 5% Equivalent to Perkin Elmer Ref: N8145051 Safety Data Sheet

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Packing instructions (ADR)	: P001, IBC03, LP01, R001
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T7
Portable tank and bulk container special provisions (ADR)	: TP1, TP28
Tank code (ADR)	: L4BN
Vehicle for tank carriage	: AT
Transport category (ADR)	: 3
Special provisions for carriage - Packages (ADR)	: V12
Hazard identification number (Kemler No.)	: 80
Orange plates	:



Tunnel restriction code (ADR)	: E
EAC code	: 2X
APP code	: B

- Transport by sea

Special provisions (IMDG)	: 223, 274
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P001, LP01
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T7
Tank special provisions (IMDG)	: TP1, TP28
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-B
Stowage category (IMDG)	: A
Stowage and handling (IMDG)	: SW2
Properties and observations (IMDG)	: Causes burns to skin, eyes and mucous membranes.

- Air transport

PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y841
PCA limited quantity max net quantity (IATA)	: 1L
PCA packing instructions (IATA)	: 852
PCA max net quantity (IATA)	: 5L
CAO packing instructions (IATA)	: 856
CAO max net quantity (IATA)	: 60L
Special provisions (IATA)	: A3
ERG code (IATA)	: 8L

- Inland waterway transport

Classification code (ADN)	: C1
Special provisions (ADN)	: 274
Limited quantities (ADN)	: 5 L
Excepted quantities (ADN)	: E1
Carriage permitted (ADN)	: T
Equipment required (ADN)	: PP, EP
Number of blue cones/lights (ADN)	: 0

Setup Solution - 8 components; 1ug/l each of Be ; Ce ; Fe ; In ; Li ; Mg ; Pb ; U in HNO3 2%/ HCl 5% Equivalent to Perkin Elmer Ref: N8145051 Safety Data Sheet

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- Rail transport

Classification code (RID)	: C1
Special provisions (RID)	: 274
Limited quantities (RID)	: 5L
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P001, IBC03, LP01, R001
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T7
Portable tank and bulk container special provisions (RID)	: TP1, TP28
Tank codes for RID tanks (RID)	: L4BN
Transport category (RID)	: 3
Special provisions for carriage – Packages (RID)	: W12
Colis express (express parcels) (RID)	: CE8
Hazard identification number (RID)	: 80

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	nitric acid - hydrochloric acid
3(a) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F	nitric acid
3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	nitric acid - hydrochloric acid

Contains no substance on the REACH candidate list $\geq 0,1$ % / SCL

Contains no REACH Annex XIV substances

15.1.2. National regulations

Germany

VwVwS Annex reference	: Water hazard class (WGK) 1, low hazard to waters (Classification according to VwVwS, Annex 4)
Storage class (LGK)	: LGK 8B - Non-combustible corrosive substances
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen	: None of the components are listed
SZW-lijst van mutagene stoffen	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: None of the components are listed



Setup Solution - 8 components; 1ug/l each of Be ; Ce ; Fe ; In ; Li ; Mg ; Pb ; U in HNO₃ 2%/ HCl 5% Equivalent to Perkin Elmer Ref: N8145051 Safety Data Sheet

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NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

Denmark

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product
Pregnant/breastfeeding women working with the product must not be in direct contact with the product
The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Full text of H- and EUH-statements:

Acute Tox. 2 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 2
Acute Tox. 2 (Oral)	Acute toxicity (oral), Category 2
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Carc. 1B	Carcinogenicity (inhalation) Category 1B
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Met. Corr. 1	Corrosive to metals, Category 1
Ox. Liq. 2	Oxidising Liquids, Category 2
Repr. 1A	Reproductive toxicity, Category 1A
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H272	May intensify fire; oxidiser
H290	May be corrosive to metals
H300	Fatal if swallowed
H301	Toxic if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H330	Fatal if inhaled
H335	May cause respiratory irritation
H350i	May cause cancer by inhalation
H360Df	May damage the unborn child. Suspected of damaging fertility
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
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects

SDS EU Mod H F (REACH ANNEX II)

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.