



# Single-element Standard Solution for ICP. (ICP & ICP-MS).

## Antimony (Sb) 10mg/l in HNO<sub>3</sub> 2%, HF 0.5%

### Safety Data Sheet

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

Date of issue: 11/05/2013

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Version: 1.2

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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 : Single-element Standard Solution for ICP. (ICP & ICP-MS).  
Antimony (Sb) 10mg/l in HNO<sub>3</sub> 2%, HF 0.5%  
Product code : S650

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

#### 1.2.1. Relevant identified uses

Main use category : Professional use  
Industrial/Professional use spec : Industrial  
For professional use only  
Use of the substance/mixture : Laboratory chemical  
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](mailto:contact@spectracer.co.uk)

Web: [www.spectracer.com](http://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)	<a href="http://www.npis.org">http://www.npis.org</a>	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]

Acute toxicity (oral), Category 4 H302  
Acute toxicity (dermal), Category 3 H311  
Serious eye damage/eye irritation, Category 2 H319

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

#### Adverse physicochemical, human health and environmental effects

Toxic in contact with skin. Harmful if swallowed. Causes serious eye irritation.

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### 2.2. Label elements

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

Hazard pictograms (CLP) :



GHS06

Signal word (CLP) :

Danger

Hazardous ingredients :

hydrofluoric acid

Hazard statements (CLP) :

H302 - Harmful if swallowed  
H311 - Toxic in contact with skin  
H319 - Causes serious eye irritation

Precautionary statements (CLP) :

P270 - Do not eat, drink or smoke when using this product  
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  
P312 - Call a POISON CENTRE or doctor if you feel unwell  
P330 - Rinse mouth  
P337+P313 - If eye irritation persists: Get medical advice/attention  
P361+P364 - Take off immediately all contaminated clothing and wash it before reuse  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

### 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]
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
hydrofluoric acid	(CAS-No.) 7664-39-3 (EC-No.) 231-634-8 (EC Index-No.) 009-002-00-6	0,1 - 1	Acute Tox. 2 (Inhalation), H330 Acute Tox. 1 (Dermal), H310 Acute Tox. 2 (Oral), H300 Skin Corr. 1A, H314
hexafluoroantimonic acid substance with a Community workplace exposure limit substance with national workplace exposure limit(s) (AT, BE, BG, CZ, DK, ES, FR, GB, GR, HU, IE, LV, NL, PL, PT, RO, SE, SK)	(CAS-No.) 16950-06-4 (EC-No.) 241-023-8 (EC Index-No.) 051-003-00-9	< 0,1	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Skin Corr. 1B, H314 Aquatic Chronic 2, H411

#### 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
hydrofluoric acid	(CAS-No.) 7664-39-3 (EC-No.) 231-634-8 (EC Index-No.) 009-002-00-6	( 0,1 =<C < 1) Eye Irrit. 2, H319 ( 1 =<C < 7) Skin Corr. 1B, H314 ( 7 =<C < 100) Skin Corr. 1A, H314

Full text of H-statements: see section 16



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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). Call a poison center or a doctor if you feel unwell.
- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Assure fresh air breathing. Allow the victim to rest.
- First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Immediately call a POISON CENTER or doctor/physician. Wash with plenty of soap and water. Specific measures (see ... on this label). Wash contaminated clothing before reuse. Wash skin with plenty of water. Remove/Take off immediately all contaminated clothing.
- First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists. 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 : Do NOT induce vomiting. Obtain emergency medical attention. Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Call a poison center or a doctor if you feel unwell.

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

- Symptoms/effects after skin contact : Repeated exposure to this material can result in absorption through skin causing significant health hazard. Toxic in contact with skin.
- Symptoms/effects after eye contact : Eye irritation.
- Symptoms/effects after ingestion : Swallowing a small quantity of this material will result in serious health hazard.

#### 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 : Sand. Water spray. Dry powder. Foam. Carbon dioxide.
- Unsuitable extinguishing media : Do not use a heavy water stream.

#### 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

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. 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. Evacuate unnecessary personnel. Avoid contact with skin, eyes and clothing.

##### 6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".
- Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if substance 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. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
- Other information : Dispose of materials or solid residues at an authorized site.

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### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection. 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. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Do not get in eyes, on skin, or on clothing. Wear personal protective equipment.

Hygiene measures : Wash Skin thoroughly after handling. 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 : Keep container closed when not in use. Keep only in the original container in a cool, well ventilated place away from : Direct sunlight, Heat and ignition sources. Store locked up. Store in a well-ventilated place. Keep cool.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

hexafluoroantimonyic acid (16950-06-4)		
EU	IOELV TWA (mg/m <sup>3</sup> )	2,5 mg/m <sup>3</sup> (Fluorides, inorganic; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
Austria	Local name	Antimon
Austria	MAK (mg/m <sup>3</sup> )	0,5 mg/m <sup>3</sup>
Austria	MAK Short time value (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Belgium	Local name	Antimoine et ses composés (en Sb) # Antimon en verbindingen (als Sb)
Belgium	Limit value (mg/m <sup>3</sup> )	0,5 mg/m <sup>3</sup>
Bulgaria	Local name	АНТИМОН
Bulgaria	OEL TWA (mg/m <sup>3</sup> )	0,5 mg/m <sup>3</sup> и неорганични съединения (като АНТИМОН)
Croatia	Local name	Antimon i drugi spojevi kao (Sb) osim atimonovog trihidrida
Croatia	GVI (granična vrijednost izloženosti) (mg/m <sup>3</sup> )	0,5 mg/m <sup>3</sup>
Croatia	Naznake (HR)	Xn (Štetno); N (opasno za okoliš)
Czech Republic	Local name	Antimon
Czech Republic	Expoziční limity (PEL) (mg/m <sup>3</sup> )	0,5 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (NPK-P) (mg/m <sup>3</sup> )	1,5 mg/m <sup>3</sup>
Denmark	Local name	Antimon, pulver og forbindelser
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> )	0,5 mg/m <sup>3</sup> beregnet som Sb, se dog stibin
Estonia	Local name	Antimon ja oksiidid (arvutatud antimonile)
Estonia	OEL TWA (mg/m <sup>3</sup> )	0,5 mg/m <sup>3</sup>
France	VME (mg/m <sup>3</sup> )	0,5 mg/m <sup>3</sup> (Antimoine et ses composés, en Sb; France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative; Fluorures inorganiques; 2.5 mg/m <sup>3</sup> ; France; Time-weighted average exposure limit 8 h; VRI: Valeur réglementaire indicative)
Greece	OEL TWA (mg/m <sup>3</sup> )	0,5 mg/m <sup>3</sup>
Hungary	Local name	ANTIMON ÉS SZERVETLEN VEGYÜLETEI (Sb-ra számítva)



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hexafluoroantimonyic acid (16950-06-4)		
Hungary	AK-érték	0,5 mg/m <sup>3</sup>
Hungary	CK-érték	2 mg/m <sup>3</sup>
Hungary	Megjegyzések (HU)	i; III.
Ireland	Local name	Antimony & compounds (as Sb)
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	0,5 mg/m <sup>3</sup>
Latvia	Local name	Antimonametāliskie putekļi
Latvia	OEL TWA (mg/m <sup>3</sup> )	0,2 mg/m <sup>3</sup>
Latvia	OEL STEL (mg/m <sup>3</sup> )	0,5 mg/m <sup>3</sup>
Netherlands	Local name	Antimoon
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	0,5 mg/m <sup>3</sup> en -verbindingen (als Sb)
Netherlands	Grenswaarde TGG 15MIN (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup> (Fluoriden, anorganisch en oplosbaar (als F); Netherlands; Short time value; Public occupational exposure limit value; als F)
Poland	Local name	Antymon i jego związki nieorganiczne, z wyjątkiem stibanu w przeliczeniu na Sb
Poland	NDS (mg/m <sup>3</sup> )	0,5 mg/m <sup>3</sup>
Portugal	Local name	Antimónio e compostos, expressos em Sb
Portugal	OEL TWA (mg/m <sup>3</sup> )	0,5 mg/m <sup>3</sup>
Romania	Local name	Antimoniu (stibiu)
Romania	OEL TWA (mg/m <sup>3</sup> )	0,2 mg/m <sup>3</sup>
Romania	OEL STEL (mg/m <sup>3</sup> )	0,5 mg/m <sup>3</sup>
Slovakia	Local name	Antimón a jeho anorganické zlúčeniny ako Sb
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	0,5 mg/m <sup>3</sup>
Slovenia	Local name	antimon
Slovenia	OEL TWA (mg/m <sup>3</sup> )	0,5 mg/m <sup>3</sup>
Slovenia	OEL STEL (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Spain	Local name	Antimonio
Spain	VLA-ED (mg/m <sup>3</sup> )	0,5 mg/m <sup>3</sup> elemental 0,5 mg/m <sup>3</sup> Compuestos de antimonio, como Sb, excepto hidruro de antimonio
Sweden	Local name	Antimon, och föreningar (som Sb), utom Antimontrihydrid
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	0,25 mg/m <sup>3</sup> inhalerbart damm
Sweden	Anmärkning (SE)	2 (Med inhalerbart damm menas den dammfraction som definieras i svensk standard SS-EN 481, Arbetsplatsluft – Partikelstorleksfraktioner för mätning av luftburna partiklar, Utgåva 1, 1993, punkt 2.3 och som har en provtagningskaraktäristik enligt punkt 5.1)
United Kingdom	Local name	Antimony and compounds except stibine (as Sb)
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	0,5 mg/m <sup>3</sup>
Iceland	Local name	Antimón, duft og sambönd (sem Sb)
Iceland	OEL (8 hours ref) (mg/m <sup>3</sup> )	0,5 mg/m <sup>3</sup>
Switzerland	Local name	Antimon
Switzerland	MAK (mg/m <sup>3</sup> )	0,5 mg/m <sup>3</sup>
Switzerland	Remark (CH)	e(mg/m <sup>3</sup> ) - Haut & OAW - NIOSH
Australia	Local name	Antimony & compounds (as Sb)
Australia	TWA (mg/m <sup>3</sup> )	0,5 mg/m <sup>3</sup>
USA - ACGIH	Local name	Antimony
USA - ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0,5 mg/m <sup>3</sup>
USA - ACGIH	Remark (ACGIH)	Skin & URT irr
USA - OSHA	Local name	Antimony and compounds (as Sb)



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hexafluoroantimonyic acid (16950-06-4)		
USA - OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	0,5 mg/m <sup>3</sup>
nitric acid (7697-37-2)		
EU	Local name	Nitric acid
EU	IOELV STEL (mg/m <sup>3</sup> )	2,6 mg/m <sup>3</sup> (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 <sup>3</sup> )	2,6 mg/m <sup>3</sup>
Austria	MAK Short time value (ppm)	1 ppm
Belgium	Local name	Acide nitrique # Salpeterzuur
Belgium	Short time value (mg/m <sup>3</sup> )	2,6 mg/m <sup>3</sup>
Belgium	Short time value (ppm)	1 ppm
Bulgaria	Local name	Азотна киселина
Bulgaria	OEL STEL (mg/m <sup>3</sup> )	2,6 mg/m <sup>3</sup>
Bulgaria	OEL STEL (ppm)	1 ppm
Croatia	Local name	Dušična kiselina
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m <sup>3</sup> )	2,6 mg/m <sup>3</sup>
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 <sup>3</sup> )	1 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (PEL) (ppm)	0,39 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m <sup>3</sup> )	2,5 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (NPK-P) (ppm)	1 ppm
Denmark	Local name	Salpetersyre
Denmark	Grænseværdie (kortvarig) (mg/m <sup>3</sup> )	2,6 mg/m <sup>3</sup>
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 <sup>3</sup> )	2,6 mg/m <sup>3</sup>
Estonia	OEL STEL (ppm)	1 ppm
Finland	Local name	Typpihappo
Finland	HTP-arvo (8h) (mg/m <sup>3</sup> )	1,3 mg/m <sup>3</sup>
Finland	HTP-arvo (8h) (ppm)	0,5 ppm
Finland	HTP-arvo (15 min)	2,6 mg/m <sup>3</sup>
Finland	HTP-arvo (15 min) (ppm)	1 ppm
France	Local name	Acide nitrique
France	VLE (mg/m <sup>3</sup> )	2,6 mg/m <sup>3</sup>
France	VLE (ppm)	1 ppm
France	Note (FR)	Valeurs réglementaires indicatives
Germany	Local name	Salpetersäure
Germany	TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> )	2,6 mg/m <sup>3</sup>



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nitric acid (7697-37-2)		
Germany	TRGS 900 Occupational exposure limit value (ppm)	1 ppm
Germany	Remark (TRGS 900)	EU, 13, 16
Greece	OEL STEL (mg/m <sup>3</sup> )	2,6 mg/m <sup>3</sup>
Greece	OEL STEL (ppm)	1 ppm
Hungary	Local name	SALÉTROMSAV
Hungary	CK-érték	2,6 mg/m <sup>3</sup>
Hungary	Megjegyzések (HU)	i, m; l.
Ireland	Local name	Nitric acid
Ireland	OEL (15 min ref) (mg/m <sup>3</sup> )	2,6 mg/m <sup>3</sup>
Ireland	OEL (15 min ref) (ppm)	1 ppm
Ireland	Notes (IE)	IOELV
Italy	Local name	Acido nitrico
Italy	OEL STEL (mg/m <sup>3</sup> )	2,6 mg/m <sup>3</sup>
Italy	OEL STEL (ppm)	1 ppm
Latvia	Local name	Slāpekļskābe
Latvia	OEL TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Latvia	OEL TWA (ppm)	0,78 ppm
Latvia	OEL STEL (mg/m <sup>3</sup> )	2,6 mg/m <sup>3</sup>
Latvia	OEL STEL (ppm)	1 ppm
Lithuania	Local name	Nitrato rūgštis (azoto rūgštis)
Lithuania	TPRV (mg/m <sup>3</sup> )	2,6 mg/m <sup>3</sup>
Lithuania	TPRV (ppm)	1 ppm
Luxembourg	Local name	Acide nitrique
Luxembourg	OEL STEL (mg/m <sup>3</sup> )	2,6 mg/m <sup>3</sup>
Luxembourg	OEL STEL (ppm)	1 ppm
Malta	Local name	Nitric acid
Malta	OEL STEL (mg/m <sup>3</sup> )	2,6 mg/m <sup>3</sup>
Malta	OEL STEL (ppm)	1 ppm
Netherlands	Local name	Salpeterzuur
Netherlands	Grenswaarde TGG 15MIN (mg/m <sup>3</sup> )	1,3 mg/m <sup>3</sup>
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 <sup>3</sup> )	1,4 mg/m <sup>3</sup>
Poland	NDSch (mg/m <sup>3</sup> )	2,6 mg/m <sup>3</sup>
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 <sup>3</sup> )	2,6 mg/m <sup>3</sup>
Romania	OEL STEL (ppm)	1 ppm
Slovakia	Local name	Kyselina dusičná
Slovakia	OEL STEL (mg/m <sup>3</sup> )	2,6 mg/m <sup>3</sup>
Slovakia	OEL STEL (ppm)	1 ppm
Slovenia	Local name	dušikova kislina
Slovenia	OEL TWA (mg/m <sup>3</sup> )	2,6 mg/m <sup>3</sup>

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nitric acid (7697-37-2)		
Slovenia	OEL TWA (ppm)	1 ppm
Slovenia	OEL STEL (mg/m <sup>3</sup> )	2,6 mg/m <sup>3</sup>
Slovenia	OEL STEL (ppm)	1 ppm
Spain	Local name	Ácido nítrico
Spain	VLA-EC (mg/m <sup>3</sup> )	2,6 mg/m <sup>3</sup>
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 <sup>3</sup> )	1,3 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (ppm)	0,5 ppm
Sweden	kortidsvärde (KTV) (mg/m <sup>3</sup> )	2,6 mg/m <sup>3</sup>
Sweden	kortidsvärde (KTV) (ppm)	1 ppm
United Kingdom	Local name	Nitric acid
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	2,6 mg/m <sup>3</sup>
United Kingdom	WEL STEL (ppm)	1 ppm
Iceland	Local name	Saltpéturssýra
Iceland	OEL (15 min ref) (mg/m <sup>3</sup> )	2,6 mg/m <sup>3</sup>
Iceland	OEL (15 min ref) (ppm)	1 ppm
Norway	Local name	Salpetersyre
Norway	Grenseverdier (AN) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
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 <sup>3</sup> )	5 mg/m <sup>3</sup>
Switzerland	MAK (ppm)	2 ppm
Switzerland	KZGW (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Switzerland	KZGW (ppm)	2 ppm
Switzerland	Remark (CH)	OAW & Auge, Zahn - NIOSH, OSHA
Australia	Local name	Nitric acid
Australia	TWA (mg/m <sup>3</sup> )	5,2 mg/m <sup>3</sup>
Australia	TWA (ppm)	2 ppm
Australia	STEL (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
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
USA - OSHA	Local name	Nitric acid
USA - OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
USA - OSHA	OSHA PEL (TWA) (ppm)	2 ppm
hydrofluoric acid (7664-39-3)		
EU	Local name	Hydrogen fluoride





# Single-element Standard Solution for ICP. (ICP & ICP-MS).

## Antimony (Sb) 10mg/l in HNO<sub>3</sub> 2%, HF 0.5%

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hydrofluoric acid (7664-39-3)		
EU	IOELV TWA (mg/m <sup>3</sup> )	1,5 mg/m <sup>3</sup>
EU	IOELV TWA (ppm)	1,8 ppm
EU	IOELV STEL (mg/m <sup>3</sup> )	2,5 mg/m <sup>3</sup>
EU	IOELV STEL (ppm)	3 ppm
Austria	Local name	Fluorwasserstoff
Austria	MAK (mg/m <sup>3</sup> )	1,5 mg/m <sup>3</sup>
Austria	MAK (ppm)	1,8 ppm
Austria	MAK Short time value (mg/m <sup>3</sup> )	2,5 mg/m <sup>3</sup>
Austria	MAK Short time value (ppm)	3 ppm
Austria	Remark (AT)	H
Belgium	Local name	Hydrogène (fluorure d') # Waterstofffluoride
Belgium	Limit value (mg/m <sup>3</sup> )	1,5 mg/m <sup>3</sup>
Belgium	Limit value (ppm)	1,8 ppm
Belgium	Short time value (mg/m <sup>3</sup> )	2,5 mg/m <sup>3</sup>
Belgium	Short time value (ppm)	3 ppm
Belgium	Remark (BE)	M: La mention M indique que lors d'une exposition supérieure à la valeur limite, des irritations apparaissent ou un danger d'intoxication aiguë existe. Le procédé de travail doit être conçu de telle façon que l'exposition ne dépasse jamais la valeur limite. Lors des mesurages, la période d'échantillonnage doit être aussi courte que possible afin de pouvoir effectuer des mesurages fiables. Le résultat des mesurages est calculé en fonction de la période d'échantillonnage.# De vermelding M duidt aan dat bij de blootstelling boven de grenswaarde irritatie optreedt of er gevaar bestaat voor acute vergiftiging. Het werkprocédé moet zo zijn ontworpen dat de blootstelling de grenswaarde nooit overschrijdt. Bij een controle geldt dat de bemonsterde periode zo kort mogelijk moet zijn om een betrouwbare meting te kunnen verrichten. het meetresultaat wordt dan gerelateerd aan de beschouwde periode.
Bulgaria	Local name	Флуороводород
Bulgaria	OEL TWA (mg/m <sup>3</sup> )	1,5 mg/m <sup>3</sup>
Bulgaria	OEL TWA (ppm)	1,8 ppm
Bulgaria	OEL STEL (mg/m <sup>3</sup> )	2,5 mg/m <sup>3</sup>
Bulgaria	OEL STEL (ppm)	3 ppm
Croatia	Local name	Vodikov fluorid
Croatia	GVI (granična vrijednost izloženosti) (mg/m <sup>3</sup> )	1,5 mg/m <sup>3</sup>
Croatia	GVI (granična vrijednost izloženosti) (ppm)	1,8 ppm
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m <sup>3</sup> )	2,5 mg/m <sup>3</sup>
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (ppm)	3 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+ (vrlo otrovno); C (nagrizajuće)
Czech Republic	Local name	Fluorovodík
Czech Republic	Expoziční limity (PEL) (mg/m <sup>3</sup> )	1,5 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (PEL) (ppm)	1835 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m <sup>3</sup> )	2,5 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (NPK-P) (ppm)	3058 ppm
Denmark	Local name	Hydrogenfluorid (Fluorbrinte)
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> )	1,5 mg/m <sup>3</sup>



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hydrofluoric acid (7664-39-3)		
Denmark	Grænseværdie (langvarig) (ppm)	1,8 ppm
Denmark	Anmærkninger (DK)	E (betyder, at stoffet har en EF-grænseværdi)
Estonia	Local name	Vesinikfluorid
Estonia	OEL TWA (mg/m <sup>3</sup> )	1,5 mg/m <sup>3</sup>
Estonia	OEL TWA (ppm)	1,8 ppm
Estonia	OEL STEL (mg/m <sup>3</sup> )	2,5 mg/m <sup>3</sup>
Estonia	OEL STEL (ppm)	3 ppm
Finland	Local name	Fluorivety
Finland	HTP-arvo (8h) (mg/m <sup>3</sup> )	1,5 mg/m <sup>3</sup>
Finland	HTP-arvo (8h) (ppm)	1,8 ppm
Finland	HTP-arvo (15 min)	2,5 mg/m <sup>3</sup>
Finland	HTP-arvo (15 min) (ppm)	3 ppm
Finland	Huomautus (FI)	iho
France	Local name	Fluorure d'hydrogène (Acide fluorhydrique)
France	VME (mg/m <sup>3</sup> )	1,5 mg/m <sup>3</sup>
France	VME (ppm)	1,8 ppm
France	VLE (mg/m <sup>3</sup> )	2,5 mg/m <sup>3</sup>
France	VLE (ppm)	3 ppm
France	Note (FR)	Valeurs réglementaires contraignantes
Germany	Local name	Fluorwasserstoff
Germany	TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> )	0,83 mg/m <sup>3</sup>
Germany	TRGS 900 Occupational exposure limit value (ppm)	1 ppm
Germany	Remark (TRGS 900)	DFG,EU,Y,H
Greece	OEL TWA (mg/m <sup>3</sup> )	2,5 mg/m <sup>3</sup>
Greece	OEL TWA (ppm)	3 ppm
Greece	OEL STEL (mg/m <sup>3</sup> )	2,5 mg/m <sup>3</sup>
Greece	OEL STEL (ppm)	3 ppm
Hungary	Local name	HIDROGÉN-FLUORID
Hungary	AK-érték	1,5 mg/m <sup>3</sup>
Hungary	CK-érték	2,5 mg/m <sup>3</sup>
Hungary	Megjegyzések (HU)	b, m; 1.
Ireland	Local name	Hydrogen fluoride (as F)
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	1,5 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (ppm)	1,8 ppm
Ireland	OEL (15 min ref) (mg/m <sup>3</sup> )	2,5 mg/m <sup>3</sup>
Ireland	OEL (15 min ref) (ppm)	3 ppm
Ireland	Notes (IE)	Sk, IOELV
Italy	Local name	Acido fluoridrico
Italy	OEL TWA (mg/m <sup>3</sup> )	1,5 mg/m <sup>3</sup>
Italy	OEL TWA (ppm)	1,8 ppm
Italy	OEL STEL (mg/m <sup>3</sup> )	2,5 mg/m <sup>3</sup>
Italy	OEL STEL (ppm)	3 ppm
Latvia	Local name	Fluorīdeņradis
Latvia	OEL TWA (mg/m <sup>3</sup> )	1,5 mg/m <sup>3</sup>
Latvia	OEL TWA (ppm)	1,8 ppm
Latvia	OEL STEL (mg/m <sup>3</sup> )	2,5 mg/m <sup>3</sup>



# Single-element Standard Solution for ICP. (ICP & ICP-MS).

## Antimony (Sb) 10mg/l in HNO<sub>3</sub> 2%, HF 0.5% Safety Data Sheet

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hydrofluoric acid (7664-39-3)		
Latvia	OEL STEL (ppm)	3 ppm
Lithuania	Local name	Vandenilio fluoridas
Lithuania	IPRV (mg/m <sup>3</sup> )	1,5 mg/m <sup>3</sup>
Lithuania	IPRV (ppm)	1,8 ppm
Lithuania	TPRV (mg/m <sup>3</sup> )	2,5 mg/m <sup>3</sup>
Lithuania	TPRV (ppm)	3 ppm
Lithuania	Remark (LT)	Ū (ūmus poveikis)
Luxembourg	Local name	Fluorure d'hydrogène
Luxembourg	OEL TWA (mg/m <sup>3</sup> )	1,5 mg/m <sup>3</sup>
Luxembourg	OEL TWA (ppm)	4,8 ppm
Luxembourg	OEL STEL (mg/m <sup>3</sup> )	2,5 mg/m <sup>3</sup>
Luxembourg	OEL STEL (ppm)	3 ppm
Malta	Local name	Hydrogenfluoride
Malta	OEL TWA (mg/m <sup>3</sup> )	1,5 mg/m <sup>3</sup>
Malta	OEL TWA (ppm)	1,8 ppm
Malta	OEL STEL (mg/m <sup>3</sup> )	2,5 mg/m <sup>3</sup>
Malta	OEL STEL (ppm)	3 ppm
Netherlands	Local name	Fluorwaterstof
Netherlands	Grenswaarde TGG 15MIN (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup> (als F)
Netherlands	Grenswaarde TGG 15MIN (ppm)	1,2 ppm (Fluorwaterstof (als F); Netherlands; Short time value; Public occupational exposure limit value; als F)
Poland	Local name	Fluorowodór
Poland	NDS (mg/m <sup>3</sup> )	0,5 mg/m <sup>3</sup>
Poland	NDSCh (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Portugal	Local name	Ácido fluorídrico , expresso em F
Portugal	OEL TWA (ppm)	0,5 ppm
Portugal	OEL - Ceilings (ppm)	2 ppm
Romania	Local name	Acid fluorhidric
Romania	OEL TWA (mg/m <sup>3</sup> )	1,5 mg/m <sup>3</sup>
Romania	OEL TWA (ppm)	1,8 ppm
Romania	OEL STEL (mg/m <sup>3</sup> )	2,5 mg/m <sup>3</sup>
Romania	OEL STEL (ppm)	3 ppm
Slovakia	Local name	Fluórovodík, kyselina fluorovodíková (ako F)
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	1,5 mg/m <sup>3</sup>
Slovakia	NPHV (priemerná) (ppm)	1,8 ppm
Slovakia	OEL STEL (mg/m <sup>3</sup> )	2,5 mg/m <sup>3</sup>
Slovakia	OEL STEL (ppm)	3 ppm
Slovenia	Local name	vodikov fluorid
Slovenia	OEL TWA (mg/m <sup>3</sup> )	1,5 mg/m <sup>3</sup>
Slovenia	OEL TWA (ppm)	1,8 ppm
Slovenia	OEL STEL (mg/m <sup>3</sup> )	2,25 mg/m <sup>3</sup>
Slovenia	OEL STEL (ppm)	2,7 ppm
Spain	Local name	Fluoruro de hidrógeno
Spain	VLA-ED (mg/m <sup>3</sup> )	1,5 mg/m <sup>3</sup>
Spain	VLA-ED (ppm)	1,8 ppm
Spain	VLA-EC (mg/m <sup>3</sup> )	2,5 mg/m <sup>3</sup>
Spain	VLA-EC (ppm)	3 ppm



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hydrofluoric acid (7664-39-3)		
Spain	Notes	VLB® (Agente químico que tiene Valor Límite Biológico específico en este documento), 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	Fluorväte
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	1,5 mg/m <sup>3</sup> 1,5 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (ppm)	1,8 ppm 1,8 ppm
Sweden	kortidsvärde (KTV) (mg/m <sup>3</sup> )	1,7 mg/m <sup>3</sup> 1,7 mg/m <sup>3</sup>
Sweden	kortidsvärde (KTV) (ppm)	2 ppm 2 ppm
Sweden	Anmärkning (SE)	31 (Vid exponering för blandningar av fluorider och vätefluorid ska nivågränsvärdet för fluorider tillämpas)
United Kingdom	Local name	Hydrogen fluoride
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	1,5 mg/m <sup>3</sup> (as F)
United Kingdom	WEL TWA (ppm)	1,8 ppm (as F)
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	2,5 mg/m <sup>3</sup> (as F)
United Kingdom	WEL STEL (ppm)	3 ppm (as F)
Iceland	Local name	Vetnisflúoríð (flúorvetni) l)
Iceland	OEL (8 hours ref) (mg/m <sup>3</sup> )	0,6 mg/m <sup>3</sup>
Iceland	OEL (8 hours ref) (ppm)	0,7 ppm
Iceland	OEL (15 min ref) (mg/m <sup>3</sup> )	2,5 mg/m <sup>3</sup>
Iceland	OEL (15 min ref) (ppm)	3 ppm
Norway	Local name	Hydrogenfluorid (Fluss-syre)
Norway	Grenseverdier (AN) (mg/m <sup>3</sup> )	0,5 mg/m <sup>3</sup>
Norway	Grenseverdier (Korttidsverdi) (mg/m <sup>3</sup> )	1,5 mg/m <sup>3</sup>
Norway	Grenseverdier (Korttidsverdi) (ppm)	1,8 ppm
Norway	Merknader (NO)	H (Kjemikalier som kan tas opp gjennom huden); E (EU har en veiledende grenseverdi for stoffet); S (Korttidsverdi er en verdi for gjennomsnittskonsentrasjonen av et kjemisk stoff i pustesonen til en arbeidstaker som ikke skal overskrides i en fastsatt referanseperiode. Referanseperioden er 15 minutter hvis ikke annet er oppgitt)
Switzerland	Local name	Fluorwasserstoff
Switzerland	MAK (mg/m <sup>3</sup> )	0,83 mg/m <sup>3</sup>
Switzerland	MAK (ppm)	1 ppm
Switzerland	KZGW (mg/m <sup>3</sup> )	1,66 mg/m <sup>3</sup>
Switzerland	KZGW (ppm)	2 ppm
Switzerland	Remark (CH)	B SS <sub>C</sub> - AW & Haut & Auge, Knochen <sup>KT</sup> - HSE, NIOSH, OSHA
Australia	Local name	Hydrogen fluoride (as F)
USA - ACGIH	Local name	Hydrogen fluoride , as F
USA - ACGIH	ACGIH TWA (ppm)	0,5 ppm

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hydrofluoric acid (7664-39-3)		
USA - ACGIH	ACGIH Ceiling (ppm)	2 ppm
USA - ACGIH	Remark (ACGIH)	URT, LRT, skin, & eye irr
USA - OSHA	Local name	Hydrogen fluoride (as F)
USA - OSHA	Remark (OSHA)	(2) See Table Z-2.

### 8.2. Exposure controls

Appropriate engineering controls	: Provide adequate general and local exhaust ventilation. Ensure good ventilation of the work station.
Personal protective equipment	: Protective goggles. Gloves.
Hand protection	: Wear protective gloves
Eye protection	: Chemical goggles or safety glasses. Safety glasses
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended



Environmental exposure controls	: Avoid release to the environment.
Other information	: Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Colourless.
Odour	: characteristic.
Odour threshold	: No data available
pH	: < 2
Relative evaporation rate (butylacetate=1)	: No data available
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)	: Non flammable.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
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



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### 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

Not established.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

Fume. Carbon monoxide. Carbon dioxide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Oral: Harmful if swallowed. Dermal: Toxic in contact with skin.

ATE CLP (oral)	1000 mg/kg bodyweight
ATE CLP (dermal)	1000 mg/kg bodyweight

Skin corrosion/irritation : Not classified

pH: < 2

Additional information : Based on available data, the classification criteria are not met

Serious eye damage/irritation : Causes serious eye irritation.

pH: < 2

Additional information : Based on available data, the classification criteria are not met

Respiratory or skin sensitisation : Not classified

Additional information : Based on available data, the classification criteria are not met

Germ cell mutagenicity : Not classified

Based on available data, the classification criteria are not met

Carcinogenicity : Not classified

Additional information : Based on available data, the classification criteria are not met

Reproductive toxicity : Not classified

Additional information : Based on available data, the classification criteria are not met

STOT-single exposure : Not classified

Additional information : Based on available data, the classification criteria are not met

STOT-repeated exposure : Not classified

Additional information : Based on available data, the classification criteria are not met

Aspiration hazard : Not classified

Additional information : Based on available data, the classification criteria are not met

Potential adverse human health effects and symptoms : Harmful if swallowed. Toxic in contact with skin.

## 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.



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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)

hydrofluoric acid (7664-39-3)	
LC50 fish 1	107,5 mg/l (LC50; 96 h)
EC50 Daphnia 1	270 mg/l (EC50; 48 h)
Threshold limit algae 1	95 mg/l (EC0; 96 h)

### 12.2. Persistence and degradability

#### Single-element Standard Solution for ICP. (ICP & ICP-MS). Antimony (Sb) 10mg/l in HNO<sub>3</sub> 2%, HF 0.5%

Persistence and degradability Not established.

#### hexafluoroantimonic acid (16950-06-4)

Persistence and degradability Biodegradability: Not applicable.  
Biochemical oxygen demand (BOD) Not applicable  
Chemical oxygen demand (COD) Not applicable  
ThOD Not applicable

#### 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

#### hydrofluoric acid (7664-39-3)

Persistence and degradability Biodegradability: Not applicable.  
Biochemical oxygen demand (BOD) Not applicable  
Chemical oxygen demand (COD) Not applicable  
ThOD Not applicable

### 12.3. Bioaccumulative potential

#### Single-element Standard Solution for ICP. (ICP & ICP-MS). Antimony (Sb) 10mg/l in HNO<sub>3</sub> 2%, HF 0.5%

Bioaccumulative potential Not established.

#### hexafluoroantimonic acid (16950-06-4)

Bioaccumulative potential Bioaccumulation: No data available.

#### 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.

#### hydrofluoric acid (7664-39-3)

Log Pow -1,4 (Experimental value)  
Bioaccumulative potential Bioaccumulation: Not applicable.

### 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

Additional information : Avoid release to the environment

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### 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.
Ecology - waste materials	: Hazardous waste due to toxicity. Avoid release to the environment.
European List of Waste (LoW) code	: 16 05 06* - laboratory chemicals consisting of or containing dangerous substances including mixtures of laboratory chemicals

### SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
3287	3287	3287	3287	3287
<b>14.2. UN proper shipping name</b>				
TOXIC LIQUID, INORGANIC, N.O.S. (hydrofluoric acid)	TOXIC LIQUID, INORGANIC, N.O.S. (hydrofluoric acid)	Toxic liquid, inorganic, n.o.s. (hydrofluoric acid)	TOXIC LIQUID, INORGANIC, N.O.S. (hydrofluoric acid)	TOXIC LIQUID, INORGANIC, N.O.S. (hydrofluoric acid)
<b>Transport document description</b>				
UN 3287 TOXIC LIQUID, INORGANIC, N.O.S. (hydrofluoric acid), 6.1, III, (E)	UN 3287 TOXIC LIQUID, INORGANIC, N.O.S. (hydrofluoric acid), 6.1, III	UN 3287 Toxic liquid, inorganic, n.o.s. (hydrofluoric acid), 6.1, III	UN 3287 TOXIC LIQUID, INORGANIC, N.O.S. (hydrofluoric acid), 6.1, III	UN 3287 TOXIC LIQUID, INORGANIC, N.O.S. (hydrofluoric acid), 6.1, III
<b>14.3. Transport hazard class(es)</b>				
6.1	6.1	6.1	6.1	6.1
				
<b>14.4. Packing group</b>				
III	III	III	III	III
<b>14.5. Environmental hazards</b>				
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)	: T4
Special provisions (ADR)	: 274
Limited quantities (ADR)	: 5I
Excepted quantities (ADR)	: E1
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)	: L4BH
Tank special provisions (ADR)	: TU15, TE19
Vehicle for tank carriage	: AT
Transport category (ADR)	: 2
Special provisions for carriage - Packages (ADR)	: V12
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV13, CV28





# Single-element Standard Solution for ICP. (ICP & ICP-MS).

## Antimony (Sb) 10mg/l in HNO<sub>3</sub> 2%, HF 0.5% Safety Data Sheet

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

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Special provisions for carriage - Operation (ADR) : S9  
Hazard identification number (Kemler No.) : 60  
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-A  
Stowage category (IMDG) : A  
Stowage and handling (IMDG) : SW2  
Properties and observations (IMDG) : Toxic if swallowed, by skin contact or by inhalation.

### - Air transport

PCA Excepted quantities (IATA) : E1  
PCA Limited quantities (IATA) : Y642  
PCA limited quantity max net quantity (IATA) : 2L  
PCA packing instructions (IATA) : 655  
PCA max net quantity (IATA) : 60L  
CAO packing instructions (IATA) : 663  
CAO max net quantity (IATA) : 220L  
Special provisions (IATA) : A3, A4, A137  
ERG code (IATA) : 6L

### - Inland waterway transport

Classification code (ADN) : T4  
Special provisions (ADN) : 274, 802  
Limited quantities (ADN) : 5 L  
Excepted quantities (ADN) : E1  
Carriage permitted (ADN) : T  
Equipment required (ADN) : PP, EP, TOX, A  
Ventilation (ADN) : VE02  
Number of blue cones/lights (ADN) : 0

### - Rail transport

Classification code (RID) : T4  
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



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Portable tank and bulk container special provisions (RID)	: TP1, TP28
Tank codes for RID tanks (RID)	: L4BH
Special provisions for RID tanks (RID)	: TU15
Transport category (RID)	: 2
Special provisions for carriage – Packages (RID)	: W12
Special provisions for carriage - Loading, unloading and handling (RID)	: CW13, CW28, CW31
Colis express (express parcels) (RID)	: CE8
Hazard identification number (RID)	: 60

### 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	Single-element Standard Solution for ICP. (ICP & ICP-MS). Antimony (Sb) 10mg/l in HNO <sub>3</sub> 2%, HF 0.5% - hexafluoroantimonic acid - hydrofluoric acid - nitric 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	Single-element Standard Solution for ICP. (ICP & ICP-MS). Antimony (Sb) 10mg/l in HNO <sub>3</sub> 2%, HF 0.5% - hexafluoroantimonic acid - hydrofluoric acid - nitric acid
3(c) 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 class 4.1	hexafluoroantimonic acid

Contains no substance on the REACH candidate list

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 6.1D - Non-combustible substances of acute toxicity, category 3 / hazardous substances that are toxic or produce chronic effects
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
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: None of the components are listed

##### Denmark

09/09/2017

EN (English)

SDS Ref.: S650

18/19



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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

Indication of changes:

Revision - See : \*

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

Full text of H- and EUH-statements:

Acute Tox. 1 (Dermal)	Acute toxicity (dermal), Category 1
Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2
Acute Tox. 2 (Oral)	Acute toxicity (oral), Category 2
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
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
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
H272	May intensify fire; oxidiser
H290	May be corrosive to metals
H300	Fatal if swallowed
H302	Harmful if swallowed
H310	Fatal in contact with skin
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H319	Causes serious eye irritation
H330	Fatal if inhaled
H332	Harmful if inhaled
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.*