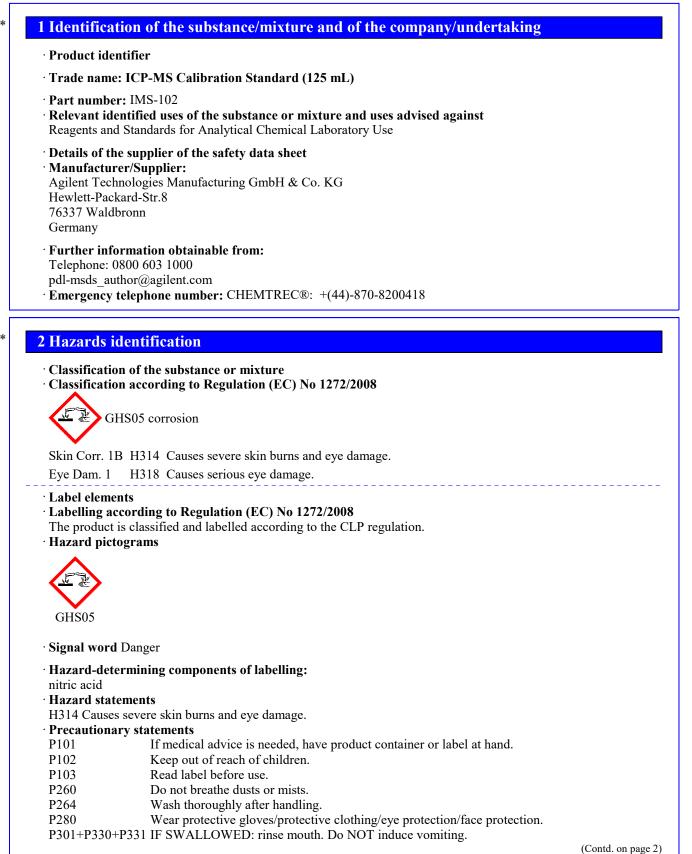
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D202+D2(1+D25	(Contd. of page 1)
P303+P361+P35.	3 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
	snower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	3 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present
	and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P321	Specific treatment (see on this label).
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international
	regulations.
· Other hazards	-
· Results of PBT a	nd vPvB assessment

· **PBT:** Not applicable.

· vPvB: Not applicable.

#### **3** Composition/information on ingredients

· Chemical characterisation: Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:			
CAS: 7697-37-2		5.0%	
EINECS: 231-714-2	🚸 Ox. Liq. 2, H272; 🚸 Skin Corr. 1A, H314		
CAS: 7664-39-3		0.1%	
EINECS: 231-634-8	♦ Acute Tox. 2, H300; Acute Tox. 1, H310; Acute Tox. 2, H330; ♦ Skin Corr. 1A, H314		
	· · · · Fan the manufine of the listed here and always a fan to continue 16		

• Additional information: For the wording of the listed hazard phrases refer to section 16.

#### 4 First aid measures

- · Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eve contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

#### **5** Firefighting measures

- · Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- · Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

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· Advice for firefighters

· Protective equipment: Mouth respiratory protective device.

#### **6** Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Mount respiratory protective device.
- Wear protective equipment. Keep unprotected persons away.

· Environmental precautions: Do not allow to enter sewers/ surface or ground water.

· Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralising agent.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

#### 7 Handling and storage

· Handling:

· Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· Information about fire - and explosion protection: Keep respiratory protective device available.

· Conditions for safe storage, including any incompatibilities

· Storage:

- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep container tightly sealed.
- Specific end use(s) No further relevant information available.

#### 8 Exposure controls/personal protection

• Additional information about design of technical facilities: No further data; see item 7.

· Control parameters

· Ingredients with limit values that require monitoring at the workplace:

7697-37-2 nitric acid

WEL Short-term value: 2.6 mg/m<sup>3</sup>, 1 ppm

7664-39-3 hydrogen fluoride

WEL Short-term value: 2.5 mg/m<sup>3</sup>, 3 ppm

Long-term value: 1.5 mg/m<sup>3</sup>, 1.8 ppm

· Additional information: The lists valid during the making were used as basis.

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· Exposure controls	
· Personal protective equipmen	t:
· General protective and hygier	iic measures:
Keep away from foodstuffs, bev	rerages and feed.
Immediately remove all soiled a	
Wash hands before breaks and a	at the end of work.
Avoid contact with the eyes.	
Avoid contact with the eyes and	skin.
· Respiratory protection:	
When used as intended with Ag	ilent instruments the use of the product under normal laboratory conditions and result in significant airborne exposures and therefore respiratory protection is not
Under an emergency condition	where a respirator is deemed necessary, use a NIOSH or equivalent approved
	ate organic or acid gas cartridge.
• Protection of hands:	are organic of acta Bas outside.
	normal use. The breakthrough time is 1hr. For cleaning a spill where there is directible gloves are recommended 12-15mil thickness with breakthrough times are recommended by followed.
• Material of gloves For normal use: nitrile rubber,	11-13 mil thickness nical: butyl rubber, 12-15 mil thickness e <b>rial</b> 1 hour
• Material of gloves For normal use: nitrile rubber, For direct contact with the chem • Penetration time of glove mate For normal use: nitrile rubber: For direct contact with the chem • Eye protection:	11-13 mil thickness nical: butyl rubber, 12-15 mil thickness erial 1 hour nical: butyl rubber: > 4 hours
• Material of gloves For normal use: nitrile rubber, For direct contact with the chem • Penetration time of glove mate For normal use: nitrile rubber: For direct contact with the chem	11-13 mil thickness nical: butyl rubber, 12-15 mil thickness erial 1 hour nical: butyl rubber: > 4 hours
• Material of gloves For normal use: nitrile rubber, For direct contact with the chem • Penetration time of glove mate For normal use: nitrile rubber: For direct contact with the chem • Eye protection:	11-13 mil thickness nical: butyl rubber, 12-15 mil thickness erial 1 hour nical: butyl rubber: > 4 hours
• Material of gloves For normal use: nitrile rubber, For direct contact with the chem • Penetration time of glove mate For normal use: nitrile rubber: For direct contact with the chem • Eye protection: • Tightly sealed goggle	11-13 mil thickness nical: butyl rubber, 12-15 mil thickness erial 1 hour nical: butyl rubber: > 4 hours es
<ul> <li>Material of gloves</li> <li>For normal use: nitrile rubber, For direct contact with the chem</li> <li>Penetration time of glove material</li> <li>For normal use: nitrile rubber: For direct contact with the chem</li> <li>Eye protection:</li> <li>Tightly sealed goggle</li> </ul>	11-13 mil thickness nical: butyl rubber, 12-15 mil thickness erial 1 hour nical: butyl rubber: > 4 hours es
<ul> <li>Material of gloves</li> <li>For normal use: nitrile rubber, For direct contact with the chem</li> <li>Penetration time of glove material</li> <li>For normal use: nitrile rubber: For direct contact with the chem</li> <li>Eye protection:</li> <li>Tightly sealed goggle</li> <li>Physical and chemical pressure</li> <li>Information on basic physical</li> </ul>	11-13 mil thickness nical: butyl rubber, 12-15 mil thickness erial 1 hour nical: butyl rubber: > 4 hours es
<ul> <li>Material of gloves</li> <li>For normal use: nitrile rubber, For direct contact with the chem</li> <li>Penetration time of glove material For normal use: nitrile rubber: For direct contact with the chem</li> <li>Eye protection:</li> <li>Tightly sealed goggle</li> </ul> Physical and chemical print of the physical of the physical information of the physical information	11-13 mil thickness nical: butyl rubber, 12-15 mil thickness erial 1 hour nical: butyl rubber: > 4 hours es
<ul> <li>Material of gloves         <ul> <li>For normal use: nitrile rubber,</li> <li>For direct contact with the chem</li> <li>Penetration time of glove material</li> <li>For normal use: nitrile rubber:</li> <li>For direct contact with the chem</li> <li>Eye protection:</li> <li>Tightly sealed goggle</li> </ul> </li> <li>Physical and chemical prior information on basic physical</li> <li>General Information</li> <li>Appearance:</li> </ul>	11-13 mil thickness nical: butyl rubber, 12-15 mil thickness erial 1 hour nical: butyl rubber: > 4 hours es es roperties and chemical properties
<ul> <li>Material of gloves</li> <li>For normal use: nitrile rubber, For direct contact with the chem</li> <li>Penetration time of glove material For normal use: nitrile rubber: For direct contact with the chem</li> <li>Eye protection:</li> <li>Tightly sealed goggle</li> <li>Physical and chemical properties</li> <li>Information on basic physical</li> <li>General Information</li> <li>Appearance: Form:</li> </ul>	11-13 mil thickness nical: butyl rubber, 12-15 mil thickness erial 1 hour nical: butyl rubber: > 4 hours es es roperties and chemical properties Fluid
<ul> <li>Material of gloves         <ul> <li>For normal use: nitrile rubber,</li> <li>For direct contact with the chem</li> </ul> </li> <li>Penetration time of glove material of glove material use: nitrile rubber:         <ul> <li>For normal use: nitrile rubber:</li> <li>For direct contact with the chem</li> <li>Eye protection:                 <ul> <li>Tightly sealed goggle</li> </ul> </li> <li>Physical and chemical privations                 <ul> <li>Information on basic physical</li> <li>General Information</li> <li>Appearance:                         <ul> <li>Form:</li> <li>Colour:</li> </ul> </li> </ul> </li> </ul></li></ul>	11-13 mil thickness hical: butyl rubber, 12-15 mil thickness erial 1 hour hical: butyl rubber: > 4 hours es roperties and chemical properties Fluid According to product specification
<ul> <li>Material of gloves For normal use: nitrile rubber, For direct contact with the chem </li> <li>Penetration time of glove material for normal use: nitrile rubber:</li> <li>For direct contact with the chem</li> <li>Eye protection:</li> <li>Tightly sealed goggle</li> </ul> Physical and chemical prime information on basic physical General Information <ul> <li>Appearance:</li> <li>Form:</li> <li>Colour:</li> <li>Odour:</li> </ul>	11-13 mil thickness nical: butyl rubber, 12-15 mil thickness erial 1 hour nical: butyl rubber: > 4 hours es es roperties and chemical properties Fluid According to product specification Characteristic
<ul> <li>Material of gloves         <ul> <li>For normal use: nitrile rubber,</li> <li>For direct contact with the chem</li> </ul> </li> <li>Penetration time of glove material of glove material use: nitrile rubber:         <ul> <li>For normal use: nitrile rubber:</li> <li>For direct contact with the chem</li> <li>Eye protection:                 <ul> <li>Tightly sealed goggle</li> </ul> </li> <li>Physical and chemical privations                 <ul> <li>Information on basic physical</li> <li>General Information</li> <li>Appearance:                         <ul> <li>Form:</li> <li>Colour:</li> </ul> </li> </ul> </li> </ul></li></ul>	11-13 mil thickness hical: butyl rubber, 12-15 mil thickness erial 1 hour hical: butyl rubber: > 4 hours es roperties and chemical properties Fluid According to product specification

Melting point/freezing point: Undetermined. Initial boiling point and boiling range: 83 °C

· Flash point:Not applicable.· Flammability (solid, gas):Not applicable.

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<sup>.</sup> Decomposition temperature:	Not determined.	
• Auto-ignition temperature:	Product is not selfigniting.	
· Explosive properties:	Product does not present an explosion hazard.	
· Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
· Vapour pressure at 20 °C:	23 hPa	
· Density:	Not determined.	
· Relative density	Not determined.	
· Vapour density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
water:	Not miscible or difficult to mix.	
· Partition coefficient: n-octanol/water:	Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Water:	94.9 %	
VOC (EC)	0.00 %	
Solids content:	0.0 %	
• Other information	No further relevant information available.	

### **10 Stability and reactivity**

· Reactivity No further relevant information available.

- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

#### **11 Toxicological information**

· Information on toxicological effects

· Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50	values rel	evant for classification:		
ATE (Acute Toxicity Estimates)				
Oral	LD50	1,276,000 mg/kg (rat)		
Dermal	LD50	5,000 mg/kg		
Inhalative	LC50/4 h	500 mg/L		
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7697-37-2 nitric acid

Inhalative LC50/4 h 67 mg/L (rat)

7664-39-3 hydrogen fluoride

Oral LD50 1,276 mg/kg (rat)

- · Primary irritant effect:
- · Skin corrosion/irritation

Causes severe skin burns and eye damage.

- · Serious eye damage/irritation
- Causes serious eye damage.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- $\cdot$  Reproductive toxicity Based on available data, the classification criteria are not met.
- $\cdot$  STOT-single exposure Based on available data, the classification criteria are not met.
- $\cdot$  STOT-repeated exposure Based on available data, the classification criteria are not met.
- $\cdot$  Aspiration hazard Based on available data, the classification criteria are not met.

#### **12 Ecological information**

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- Additional ecological information:

· General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Must not reach sewage water or drainage ditch undiluted or unneutralised. Danger to drinking water if even small quantities leak into the ground.

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

#### **13 Disposal considerations**

- · Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

#### · European waste catalogue

HP 8 Corrosive

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Trade name: ICP-MS Calibration Standard (125 mL)

• Uncleaned packaging: • Recommendation: Disposal must be made according to official regulations.

UN-Number	
ADR, IMDG, IATA	UN3264
UN proper shipping name	
ADR	3264 CORROSIVE LIQUID, ACIDIC, INORGANIC,
	N.O.S. (NITRIC ACID)
IMDG, IATA	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S (NITRIC ACID)
Transport hazard class(es)	
ADR, IMDG, IATA	
$\wedge$	
8	
Class	8 Corrosive substances.
Label	8
Packing group	
ADR, IMDG, IATA	II
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Corrosive substances.
Danger code (Kemler):	80
EMS Number:	F-A,S-B
Segregation groups	Acids
Stowage Category	B SW2 Class of living superior
Stowage Code	SW2 Clear of living quarters.
Transport in bulk according to Annex I and the IBC Code	I of Marpol Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
Transport category	2
Tunnel restriction code	Е
IMDG	
Limited quantities (LQ)	1L



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· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID), 8, II

#### **15 Regulatory information**

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

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### **16 Other information**

The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.

#### · Relevant phrases

- H272 May intensify fire; oxidiser.
- H300 Fatal if swallowed.
- H310 Fatal in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H330 Fatal if inhaled.
- · Department issuing SDS: Document Control / Regulatory
- · Contact: regulatory@ultrasci.com
- · Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Ox. Liq. 2: Oxidizing liquids - Category 2 Acute Tox. 2: Acute toxicity - Category 2 Acute Tox. 1: Acute toxicity - Category 1 Skin Corr. 1A: Skin corrosion/irritation - Category 1A Skin Corr. 1B: Skin corrosion/irritation - Category 1B Eye Dam. 1: Serious eye damage/eye irritation - Category 1 • \* Data compared to the previous version altered.

