



# Agilent Technologies

**Kit Name:** IntelliQuant Calibration Kit

**Kit PN:** 5191-3932

## Kit Components

Component Part Number	Component Name	Volume or mass/ container	No. of component containers/ kit
5191-3933	IntelliQuant Multi-Element Standard 1	100 mL	1
5191-3934	IntelliQuant Multi-Element Standard 2	100 mL	1
5191-3935	IntelliQuant Multi-Element Standard 3	100 mL	1
5191-3936	IntelliQuant Multi-Element Standard 4	100 mL	1
5191-3937	IntelliQuant Multi-Element Standard 5	100 mL	1
5191-3938	IntelliQuant Multi-Element Standard 6	100 mL	1
5191-3939	IntelliQuant Multi-Element Standard 7	100 mL	1
5190-7001	Calibration blank solution 5pct HNO <sub>3</sub>	500 mL	1

SDSs for each component follow this cover sheet.

## Transportation Information

DOT	IATA/ICAO	China
UN3264, Corrosive Liquid, Acidic, Inorganic, n.o.s. (Nitric Acid, Hydrochloric Acid, Hydrofluoric Acid), 8, II.	UN3264, Corrosive Liquid, Acidic, Inorganic, n.o.s. (Nitric Acid, Hydrochloric Acid, Hydrofluoric Acid), 8, II.	UN3264, Corrosive Liquid, Acidic, Inorganic, n.o.s. (Nitric Acid, Hydrochloric Acid, Hydrofluoric Acid), 8, II.

**Safety Data Sheet**  
according to WHS Regulations

Printing date 27.10.2021

Version number 1

Revision: 27.10.2021

Hazardous according to criteria of Australian Safety and Compensation Council.

**1 Identification**· **Product identifier**· **Product name: IntelliQuant Multi-Element Standard 1 [100mL bottle]**· **Part number:** 5191-3933· **Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

· **Application of the substance / the mixture** Reagents and Standards for Analytical Chemical Laboratory Use· **Details of the supplier of the safety data sheet**· **Manufacturer/Supplier:**Agilent Technologies Australia Pty Ltd  
679 Springvale Road  
Mulgrave Victoria 3170,  
Australia

Tel: 1800 802 402

· **Further information obtainable from:** e-mail: [pdl-msds\\_author@agilent.com](mailto:pdl-msds_author@agilent.com)· **Emergency telephone number:** CHEMTREC®: +(61)-290372994**2 Hazard(s) Identification**· **Classification of the substance or mixture**

corrosion

Met. Corr.1 H290 May be corrosive to metals.

Eye Dam. 1 H318 Causes serious eye damage.



Skin Irrit. 2 H315 Causes skin irritation.

· **Label elements**· **GHS label elements**

The product is classified and labelled according to the Globally Harmonised System (GHS).

· **Hazard pictograms**

GHS05

· **Signal word** Danger· **Hazard-determining components of labelling:**

nitric acid

· **Hazard statements**

H290 May be corrosive to metals.

H315 Causes skin irritation.

(Contd. on page 2)

-AU



**Safety Data Sheet**  
according to WHS Regulations

Printing date 27.10.2021

Version number 1

Revision: 27.10.2021

**Product name: IntelliQuant Multi-Element Standard 1 [100mL bottle]**

(Contd. from page 1)

H318 Causes serious eye damage.

**Precautionary statements**

P280 Wear protective gloves / eye protection / face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P321 Specific treatment (see on this label).

P332+P313 If skin irritation occurs: Get medical advice/attention.

P406 Store in corrosive resistant container /container with a corrosion resistant inner liner.

**Other hazards**

**Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

**3 Composition and Information on Ingredients**

**Chemical characterisation: Mixtures**

**Description:**

Aqueous solution.

Also contains substances at levels not considered to be hazardous.

**Dangerous components:**

CAS: 7697-37-2 RTECS: QU5775000	nitric acid Ox. Liq. 3, H272; Acute Tox. 3, H331; Met. Corr. I, H290; Skin Corr. 1A, H314	<5%
CAS: 7439-92-1 RTECS: OF 7525000	Lead Carc. 2, H351; Repr. 1A, H360FD-H362; STOT RE 1, H372; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	<0.1%

**Additional information:**

The concentration of the acid stated in this SDS is calculated as an absolute mass concentration (%w/v). This is less than the acid concentration stated on the product label and COA, which reflects a percent value of the commercially available concentrated aqueous form of the acid.

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:** Supply fresh air; consult doctor in case of complaints.

**After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

· **After swallowing:** Rinse mouth. Do not induce vomiting.

**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.

AU

(Contd. on page 3)

## Safety Data Sheet according to WHS Regulations

Printing date 27.10.2021

Version number 1

Revision: 27.10.2021

**Product name: IntelliQuant Multi-Element Standard 1 [100mL bottle]**

(Contd. from page 2)

### 5 Fire Fighting Measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable for surrounding conditions.
- **Special hazards arising from the substance or mixture**  
Formation of toxic gases is possible during heating or in case of fire.
- **Advice for firefighters**
- **Protective equipment:**  
HazChem Code: 2X  
Wear self-contained respiratory protective device.

### 6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**  
Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Use neutralising agent.  
Dispose of contaminated material as waste according to item 13.  
Absorb liquid components with liquid-binding material.  
**DO NOT USE SAWDUST.**
- **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** Store in cool, dry place in tightly closed receptacles.
- **Information about fire - and explosion protection:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Please refer to the manufacturer's certificate for specific storage and transport temperature conditions.  
Store only in the original receptacle unless other advice is given on the CoA.  
Keep container in a well-ventilated place. Keep away from sources of ignition and heat.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:** Keep container tightly sealed.
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls and personal protection

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

(Contd. on page 4)

AU

## Safety Data Sheet

according to WHS Regulations

Printing date 27.10.2021

Version number 1

Revision: 27.10.2021

**Product name: IntelliQuant Multi-Element Standard 1 [100mL bottle]**

(Contd. from page 3)

- **Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

**CAS: 7697-37-2 nitric acid**

WES Short-term value: 10 mg/m<sup>3</sup>, 4 ppm

Long-term value: 5.2 mg/m<sup>3</sup>, 2 ppm

- **Additional information:** Lists used were valid at the time of SDS preparation.

- **Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

- **Respiratory protection:**

Not required.

Use suitable respiratory protective device in case of insufficient ventilation.

- **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374



Protective gloves

- **Material of gloves**

PVC gloves

Neoprene gloves

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

### 9 Physical and Chemical Properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

**Form:** Liquid

**Colour:** Colourless

- **Odour:** Odourless

(Contd. on page 5)

## Safety Data Sheet

*according to WHS Regulations*

Printing date 27.10.2021

Version number 1

Revision: 27.10.2021

**Product name: IntelliQuant Multi-Element Standard 1 [100mL bottle]**

(Contd. from page 4)

· <b>Odour threshold:</b>	<i>Not determined.</i>
· <b>pH-value:</b>	< 2
· <b>Change in condition</b> <b>Melting point/freezing point:</b>	<i>Not determined.</i> <i>Not determined.</i>
<b>Initial boiling point and boiling range:</b>	<i>Not determined.</i>
· <b>Flash point:</b>	<i>Not applicable.</i>
· <b>Flammability (solid, gas):</b>	<i>Not determined.</i>
· <b>Ignition temperature:</b>	<i>Not determined</i>
· <b>Decomposition temperature:</b>	<i>Not determined.</i>
· <b>Auto-ignition temperature:</b>	<i>Product is not selfigniting.</i>
· <b>Explosive properties:</b>	<i>Not determined.</i>
· <b>Explosion limits:</b> <b>Lower:</b>	<i>Not determined.</i>
<b>Upper:</b>	<i>Not determined.</i>
· <b>Vapour pressure:</b>	<i>Not determined.</i>
· <b>Density:</b>	<i>Not determined.</i>
· <b>Relative density</b>	<i>Not determined.</i>
· <b>Vapour density</b>	<i>Not determined.</i>
· <b>Evaporation rate</b>	<i>Not determined.</i>
· <b>Solubility in / Miscibility with water:</b>	<i>Fully miscible.</i>
· <b>Partition coefficient: n-octanol/water:</b>	<i>Not determined.</i>
· <b>Viscosity:</b> <b>Dynamic:</b>	<i>Not determined.</i>
<b>Kinematic:</b>	<i>Not determined.</i>
· <b>Other information</b>	<i>No further relevant information available.</i>

### 10 Stability and Reactivity

- **Reactivity**  
*Stable under normal conditions.*  
*No further relevant information available.*
- **Chemical stability** *Stable under normal conditions.*
- **Thermal decomposition / conditions to be avoided:**  
*Formation of toxic gases is possible during heating or in case of fire.*
- **Possibility of hazardous reactions** *No dangerous reactions known.*
- **Conditions to avoid** *Heat.*
- **Incompatible materials:**  
*Strong oxidizing agents.*  
*Metals.*

(Contd. on page 6)

AU

## Safety Data Sheet according to WHS Regulations

Printing date 27.10.2021

Version number 1

Revision: 27.10.2021

**Product name: IntelliQuant Multi-Element Standard 1 [100mL bottle]**

(Contd. from page 5)

- **Hazardous decomposition products:** Formation of toxic gases is possible during heating or in case of fire.

### 11 Toxicological Information

- **Information on toxicological effects**
- **Acute toxicity**

- **LD/LC50 values relevant for classification:**

**CAS: 7697-37-2 nitric acid**

Inhalative	LC50/4 h	2.65 mg/l (rat)
------------	----------	-----------------

**CAS: 7440-22-4 Silver, powder**

Oral	LD50	>10,000 mg/kg (mouse)
------	------	-----------------------

- **Primary irritant effect:**
- **Skin corrosion/irritation** Irritant to skin and mucous membranes.
- **Serious eye damage/irritation**  
Strong irritant with the danger of severe eye injury.  
Causes serious eye damage.
- **Respiratory or skin sensitisation** No sensitising effects known.
- **Additional toxicological information:**  
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:  
Irritant

### 12 Ecological Information

- **Toxicity**

- **Aquatic toxicity:**

**CAS: 7697-37-2 nitric acid**

LC50/48	180 mg/l (crustacean)
---------	-----------------------

**CAS: 7440-22-4 Silver, powder**

LC50/24	0.015 mg/L (crustacean)
---------	-------------------------

EC50/72h	0.00198 mg/l (Algae)
----------	----------------------

LC50/96 h	0.00807 mg/l (fish)
-----------	---------------------

- **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 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product to reach ground water, water course or sewage system.  
Must not reach sewage water or drainage ditch undiluted or unneutralised.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

(Contd. on page 7)

## Safety Data Sheet

### according to WHS Regulations

Printing date 27.10.2021

Version number 1

Revision: 27.10.2021

**Product name: IntelliQuant Multi-Element Standard 1 [100mL bottle]**

(Contd. from page 6)

· **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Dispose of in accordance with national regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### 14 Transport information

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>· <b>UN-Number</b></li> <li>· <b>ADG, IMDG, IATA</b></li> <li>· <b>ADG</b></li> <li>· <b>IMDG, IATA</b></li> </ul>  | <p>UN3264<br/>3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID)<br/>CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID)</p> |
| <ul style="list-style-type: none"> <li>· <b>Transport hazard class(es)</b></li> <li>· <b>ADG, IMDG, IATA</b></li> </ul>  | <p>8 Corrosive substances.<br/>8</p>   |
| <ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>   | <p>8 Corrosive substances.<br/>8</p>   |
| <ul style="list-style-type: none"> <li>· <b>Packing group</b></li> <li>· <b>ADG, IMDG, IATA</b></li> </ul>   | <p>III</p>   |
| <ul style="list-style-type: none"> <li>· <b>Environmental hazards:</b></li> </ul>  | <p>Not applicable.</p>   |
| <ul style="list-style-type: none"> <li>· <b>Special precautions for user</b></li> <li>· <b>Hazard identification number (Kemler code):</b></li> <li>· <b>EMS Number:</b></li> <li>· <b>Segregation groups</b></li> <li>· <b>Stowage Category</b></li> <li>· <b>Stowage Code</b></li> </ul> | <p>Warning: Corrosive substances.<br/>80<br/>F-A,S-B<br/>Acids<br/>A<br/>SW2 Clear of living quarters.</p>                                     |
| <ul style="list-style-type: none"> <li>· <b>Transport in bulk according to Annex II of Marpol and the IBC Code</b></li> </ul>  | <p>Not applicable.</p>   |
| <ul style="list-style-type: none"> <li>· <b>Transport/Additional information:</b></li> </ul>   | <p>Not applicable.</p>   |
| <ul style="list-style-type: none"> <li>· <b>ADG</b></li> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Excepted quantities (EQ)</b></li> </ul>  | <p>5L<br/>Code: E1<br/>Maximum net quantity per inner packaging: 30 ml<br/>Maximum net quantity per outer packaging: 1000 ml</p>               |

(Contd. on page 8)

## Safety Data Sheet

according to WHS Regulations

Printing date 27.10.2021

Version number 1

Revision: 27.10.2021

**Product name: IntelliQuant Multi-Element Standard 1 [100mL bottle]**

(Contd. from page 7)

· <b>Transport category</b>	3
· <b>Tunnel restriction code</b>	E
· <b>Remarks:</b>	HazChem Code: 2X
· <b>UN "Model Regulation":</b>	UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID), 8, III

### 15 Regulatory information

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

· **Australian Inventory of Industrial Chemicals**

CAS: 7732-18-5	Water
CAS: 7697-37-2	nitric acid
CAS: 584-09-8	Rubidium carbonate
CAS: 1314-36-9	Yttrium oxide
CAS: 1314-37-0	Ytterbium (III) oxide
CAS: 7439-92-1	Lead
CAS: 7439-96-5	Manganese
CAS: 7440-22-4	Silver, powder
CAS: 7440-38-2	Arsenic
CAS: 7440-47-3	Chromium
CAS: 7664-38-2	Phosphoric acid
CAS: 12036-44-1	Thulium oxide
CAS: 12061-16-4	Dierbium trioxide

· **Standard for the Uniform Scheduling of Medicines and Poisons**

CAS: 7697-37-2	nitric acid	S5, S6
CAS: 7439-92-1	Lead	S4
CAS: 7440-22-4	Silver, powder	S2
CAS: 7440-38-2	Arsenic	S4, S6, S7
CAS: 7664-38-2	Phosphoric acid	S5, S6

· **Australia: Priority Existing Chemicals**

None of the ingredients is listed.

· **Hazard pictograms**



GHS05

· **Signal word** Danger

· **Hazard-determining components of labelling:**

nitric acid

· **Hazard statements**

H290 May be corrosive to metals.

(Contd. on page 9)



**Safety Data Sheet**  
according to WHS Regulations

Printing date 27.10.2021

Version number 1

Revision: 27.10.2021

**Product name: IntelliQuant Multi-Element Standard 1 [100mL bottle]**

(Contd. from page 8)

H315 Causes skin irritation.

H318 Causes serious eye damage.

**Precautionary statements**

P280 Wear protective gloves / eye protection / face protection.

P305+P351+P338 **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P321 Specific treatment (see on this label).

P332+P313 If skin irritation occurs: Get medical advice/attention.

P406 Store in corrosive resistant container /container with a corrosion resistant inner liner.

**Directive 2012/18/EU**

**Named dangerous substances - ANNEX I** None of the ingredients is listed.

**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.

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H331 Toxic if inhaled.

H351 Suspected of causing cancer.

H360FD May damage fertility. May damage the unborn child.

H362 May cause harm to breast-fed children.

H372 Causes damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

**Contact:**

**Abbreviations and acronyms:**

ADR: Accord relatif au transport international 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

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Ox. Liq. 3: Oxidizing liquids – Category 3

Met. Corr.1: Corrosive to metals – Category 1

Acute Tox. 3: Acute toxicity – Category 3

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Carc. 2: Carcinogenicity – Category 2

Repr. 1A: Reproductive toxicity – Category 1A

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

(Contd. on page 10)

**Safety Data Sheet**  
*according to WHS Regulations*

Printing date 27.10.2021

Version number 1

Revision: 27.10.2021

**Product name: IntelliQuant Multi-Element Standard 1 [100mL bottle]**

(Contd. from page 9)

**· Sources**

Tables 3.1 and 3.2 from Annex 6 of EC 1272/2008, EC 1907/2006, EH40/2005 as amended 2011, Registry of Toxic Effects of Chemical Substances (RTECS), The Dictionary of Substances and their Effects, 1st Edition, IUCLID.

· **Data compared to the previous version altered.** All sections have been updated.

-AU-

## Safety Data Sheet according to WHS Regulations

Printing date 29.10.2021

Version number 1

Revision: 29.10.2021

Hazardous according to criteria of Australian Safety and Compensation Council.

### 1 Identification

- **Product identifier**
- **Product name: IntelliQuant Multi-Element Standard 2 [100 mL bottle]**
- **Part number:** 5191-3934
- **Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Reagents and Standards for Analytical Chemical Laboratory Use
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Agilent Technologies Australia Pty Ltd Tel: 1800 802 402  
679 Springvale Road  
Mulgrave Victoria 3170,  
Australia
- **Further information obtainable from:** e-mail: [pdl-msds\\_author@agilent.com](mailto:pdl-msds_author@agilent.com)
- **Emergency telephone number:** CHEMTREC®: +(61)-290372994

### 2 Hazard(s) Identification

- **Classification of the substance or mixture**



Met. Corr.1 H290 May be corrosive to metals.

Eye Dam. 1 H318 Causes serious eye damage.



Skin Irrit. 2 H315 Causes skin irritation.

- **Label elements**
- **GHS label elements**  
The product is classified and labelled according to the Globally Harmonised System (GHS).
- **Hazard pictograms**



GHS05

- **Signal word** Danger
- **Hazard-determining components of labelling:**  
nitric acid
- **Hazard statements**  
H290 May be corrosive to metals.  
H315 Causes skin irritation.

(Contd. on page 2)

-AU

## Safety Data Sheet

### according to WHS Regulations

Printing date 29.10.2021

Version number 1

Revision: 29.10.2021

**Product name: IntelliQuant Multi-Element Standard 2 [100 mL bottle]**

(Contd. from page 1)

H318 Causes serious eye damage.

· **Precautionary statements**

P280 Wear protective gloves / eye protection / face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P321 Specific treatment (see on this label).

P332+P313 If skin irritation occurs: Get medical advice/attention.

P406 Store in corrosive resistant container /container with a corrosion resistant inner liner.

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

### 3 Composition and Information on Ingredients

· **Chemical characterisation: Mixtures**

· **Description:**

Aqueous solution.




Also contains substances at levels not considered to be hazardous.

· **Dangerous components:**

CAS: 7697-37-2

RTECS: QU5775000

nitric acid

 Ox. Liq. 3, H272;  Acute Tox. 3, H331;  Met. Corr.1, H290; Skin Corr. 1A, H314

<5%

· **Additional information:**

The concentration of the acid stated in this SDS is calculated as an absolute mass concentration (%w/v). This is less than the acid concentration stated on the product label and COA, which reflects a percent value of the commercially available concentrated aqueous form of the acid.

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:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

· **After swallowing:** Rinse mouth. Do not induce vomiting.

· **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.

AU

(Contd. on page 3)

## Safety Data Sheet according to WHS Regulations

Printing date 29.10.2021

Version number 1

Revision: 29.10.2021

**Product name: IntelliQuant Multi-Element Standard 2 [100 mL bottle]**

(Contd. from page 2)

### 5 Fire Fighting Measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable for surrounding conditions.
- **Special hazards arising from the substance or mixture**  
Formation of toxic gases is possible during heating or in case of fire.
- **Advice for firefighters**
- **Protective equipment:**  
HazChem Code: 2X  
Wear self-contained respiratory protective device.

### 6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**  
Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Use neutralising agent.  
Dispose of contaminated material as waste according to item 13.  
Absorb liquid components with liquid-binding material.  
**DO NOT USE SAWDUST.**
- **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** Store in cool, dry place in tightly closed receptacles.
- **Information about fire - and explosion protection:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Please refer to the manufacturer's certificate for specific storage and transport temperature conditions.  
Store only in the original receptacle unless other advice is given on the CoA.  
Keep container in a well-ventilated place. Keep away from sources of ignition and heat.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:** Keep container tightly sealed.
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls and personal protection

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

(Contd. on page 4)

AU

## Safety Data Sheet

*according to WHS Regulations*

Printing date 29.10.2021

Version number 1

Revision: 29.10.2021

**Product name: IntelliQuant Multi-Element Standard 2 [100 mL bottle]**

(Contd. from page 3)

- **Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

**CAS: 7697-37-2 nitric acid**

WES Short-term value: 10 mg/m<sup>3</sup>, 4 ppm

Long-term value: 5.2 mg/m<sup>3</sup>, 2 ppm

- **Additional information:** Lists used were valid at the time of SDS preparation.

- **Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

- **Respiratory protection:**

Not required.

Use suitable respiratory protective device in case of insufficient ventilation.

- **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374



Protective gloves

- **Material of gloves**

PVC gloves

Neoprene gloves

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

### 9 Physical and Chemical Properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

**Form:** Liquid

**Colour:** Colourless

- **Odour:** Odourless

(Contd. on page 5)

## Safety Data Sheet

*according to WHS Regulations*

Printing date 29.10.2021

Version number 1

Revision: 29.10.2021

**Product name: IntelliQuant Multi-Element Standard 2 [100 mL bottle]**

(Contd. from page 4)

· <b>Odour threshold:</b>	<i>Not determined.</i>
· <b>pH-value:</b>	< 2
· <b>Change in condition</b> <b>Melting point/freezing point:</b>	<i>Not determined.</i> <i>Not determined.</i>
<b>Initial boiling point and boiling range:</b>	<i>Not determined.</i>
· <b>Flash point:</b>	<i>Not applicable.</i>
· <b>Flammability (solid, gas):</b>	<i>Not determined.</i>
· <b>Ignition temperature:</b>	<i>Not determined</i>
· <b>Decomposition temperature:</b>	<i>Not determined.</i>
· <b>Auto-ignition temperature:</b>	<i>Product is not selfigniting.</i>
· <b>Explosive properties:</b>	<i>Not determined.</i>
· <b>Explosion limits:</b> <b>Lower:</b>	<i>Not determined.</i>
<b>Upper:</b>	<i>Not determined.</i>
· <b>Vapour pressure:</b>	<i>Not determined.</i>
· <b>Density:</b>	<i>Not determined.</i>
· <b>Relative density</b>	<i>Not determined.</i>
· <b>Vapour density</b>	<i>Not determined.</i>
· <b>Evaporation rate</b>	<i>Not determined.</i>
· <b>Solubility in / Miscibility with water:</b>	<i>Fully miscible.</i>
· <b>Partition coefficient: n-octanol/water:</b>	<i>Not determined.</i>
· <b>Viscosity:</b> <b>Dynamic:</b>	<i>Not determined.</i>
<b>Kinematic:</b>	<i>Not determined.</i>
· <b>Other information</b>	<i>No further relevant information available.</i>

### 10 Stability and Reactivity

- **Reactivity**  
*Stable under normal conditions.*  
*No further relevant information available.*
- **Chemical stability** *Stable under normal conditions.*
- **Thermal decomposition / conditions to be avoided:**  
*Formation of toxic gases is possible during heating or in case of fire.*
- **Possibility of hazardous reactions** *No dangerous reactions known.*
- **Conditions to avoid** *Heat.*
- **Incompatible materials:**  
*Strong oxidizing agents.*  
*Metals.*

(Contd. on page 6)

AU

## Safety Data Sheet

### according to WHS Regulations

Printing date 29.10.2021

Version number 1

Revision: 29.10.2021

**Product name: IntelliQuant Multi-Element Standard 2 [100 mL bottle]**

(Contd. from page 5)

- **Hazardous decomposition products:** Formation of toxic gases is possible during heating or in case of fire.

### 11 Toxicological Information

- **Information on toxicological effects**
- **Acute toxicity**

- **LD/LC50 values relevant for classification:**

<b>CAS: 7697-37-2 nitric acid</b>		
Inhalative	LC50/4 h	2.65 mg/l (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Irritant to skin and mucous membranes.
- **Serious eye damage/irritation**  
Strong irritant with the danger of severe eye injury.  
Causes serious eye damage.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**  
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:  
Irritant

### 12 Ecological Information

- **Toxicity**

- **Aquatic toxicity:**

<b>CAS: 7697-37-2 nitric acid</b>		
LC50/48	180 mg/l	(crustacean)

- **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 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product to reach ground water, water course or sewage system.  
Must not reach sewage water or drainage ditch undiluted or unneutralised.
- **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 of together with household garbage. Do not allow product to reach sewage system.

(Contd. on page 7)

## Safety Data Sheet

according to WHS Regulations

Printing date 29.10.2021

Version number 1

Revision: 29.10.2021

**Product name: IntelliQuant Multi-Element Standard 2 [100 mL bottle]**

(Contd. from page 6)

- **Uncleaned packaging:**
- **Recommendation:** Dispose of in accordance with national regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### 14 Transport information

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>· <b>UN-Number</b></li> <li>· <b>ADG, IMDG, IATA</b></li> <li>· <b>ADG</b></li> <li>· <b>IMDG, IATA</b></li> </ul> | <p>UN3264<br/>3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID)<br/>CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID)</p> |
|---|--|

- **Transport hazard class(es)**
- **ADG, IMDG, IATA**



- |  |                                      |
|--|--------------------------------------|
| <ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul> | <p>8 Corrosive substances.<br/>8</p> |
|--|--------------------------------------|

- |  |            |
|--|------------|
| <ul style="list-style-type: none"> <li>· <b>Packing group</b></li> <li>· <b>ADG, IMDG, IATA</b></li> </ul> | <p>III</p> |
|--|------------|

- |   |                        |
|---|------------------------|
| <ul style="list-style-type: none"> <li>· <b>Environmental hazards:</b></li> </ul> | <p>Not applicable.</p> |
|---|------------------------|

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>· <b>Special precautions for user</b></li> <li>· <b>Hazard identification number (Kemler code):</b></li> <li>· <b>EMS Number:</b></li> <li>· <b>Segregation groups</b></li> <li>· <b>Stowage Category</b></li> <li>· <b>Stowage Code</b></li> </ul> | <p>Warning: Corrosive substances.<br/>80<br/>F-A,S-B<br/>Acids<br/>A<br/>SW2 Clear of living quarters.</p> |
|--|--|

- |   |                        |
|---|------------------------|
| <ul style="list-style-type: none"> <li>· <b>Transport in bulk according to Annex II of Marpol and the IBC Code</b></li> </ul> | <p>Not applicable.</p> |
|---|------------------------|

· **Transport/Additional information:**

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>· <b>ADG</b></li> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Excepted quantities (EQ)</b></li> <li>· <b>Transport category</b></li> <li>· <b>Tunnel restriction code</b></li> <li>· <b>Remarks:</b></li> </ul> | <p>5L<br/>Code: E1<br/>Maximum net quantity per inner packaging: 30 ml<br/>Maximum net quantity per outer packaging: 1000 ml<br/>3<br/>E<br/>HazChem Code: 2X</p> |
|---|---|

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>· <b>UN "Model Regulation":</b></li> </ul> | <p>UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID), 8, III</p> |
|---|--|

-AU-

(Contd. on page 8)

## Safety Data Sheet according to WHS Regulations

Printing date 29.10.2021

Version number 1

Revision: 29.10.2021

**Product name: IntelliQuant Multi-Element Standard 2 [100 mL bottle]**

(Contd. from page 7)

### 15 Regulatory information

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

· **Australian Inventory of Industrial Chemicals**

All ingredients are listed.

· **Standard for the Uniform Scheduling of Medicines and Poisons**

CAS: 7697-37-2 | nitric acid

S5, S6

· **Australia: Priority Existing Chemicals**

None of the ingredients is listed.

· **Hazard pictograms**



GHS05

· **Signal word** *Danger*

· **Hazard-determining components of labelling:**

nitric acid

· **Hazard statements**

H290 May be corrosive to metals.

H315 Causes skin irritation.

H318 Causes serious eye damage.

· **Precautionary statements**

P280 Wear protective gloves / eye protection / face protection.

P305+P351+P338 **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P321 Specific treatment (see on this label).

P332+P313 If skin irritation occurs: Get medical advice/attention.

P406 Store in corrosive resistant container /container with a corrosion resistant inner liner.

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **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.

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H331 Toxic if inhaled.

(Contd. on page 9)

-AU

## Safety Data Sheet according to WHS Regulations

Printing date 29.10.2021

Version number 1

Revision: 29.10.2021

**Product name: IntelliQuant Multi-Element Standard 2 [100 mL bottle]**

(Contd. from page 8)

**· Contact:****· Abbreviations and acronyms:**

*ADR: Accord relatif au transport international 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*

*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)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

*PBT: Persistent, Bioaccumulative and Toxic*

*vPvB: very Persistent and very Bioaccumulative*

*Ox. Liq. 3: Oxidizing liquids – Category 3*

*Met. Corr.1: Corrosive to metals – Category 1*

*Acute Tox. 3: Acute toxicity – Category 3*

*Skin Corr. 1A: Skin corrosion/irritation – Category 1A*

*Skin Irrit. 2: Skin corrosion/irritation – Category 2*

*Eye Dam. 1: Serious eye damage/eye irritation – Category 1*

**· Sources**

*Tables 3.1 and 3.2 from Annex 6 of EC 1272/2008, EC 1907/2006, EH40/2005 as amended 2011, Registry of Toxic Effects of Chemical Substances (RTECS), The Dictionary of Substances and their Effects, 1st Edition, IUCLID.*

**· Data compared to the previous version altered.** All sections have been updated.

## Safety Data Sheet according to WHS Regulations

Printing date 29.10.2021

Version number 1

Revision: 29.10.2021

Hazardous according to criteria of Australian Safety and Compensation Council.

### 1 Identification

- **Product identifier**
- **Product name: IntelliQuant Multi-Element Standard 3 [100 mL bottle]**
- **Part number:** 5191-3935
- **Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Reagents and Standards for Analytical Chemical Laboratory Use
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Agilent Technologies Australia Pty Ltd Tel: 1800 802 402  
679 Springvale Road  
Mulgrave Victoria 3170,  
Australia
- **Further information obtainable from:** e-mail: [pdl-msds\\_author@agilent.com](mailto:pdl-msds_author@agilent.com)
- **Emergency telephone number:** CHEMTREC®: +(61)-290372994

### 2 Hazard(s) Identification

- **Classification of the substance or mixture**



Met. Corr.1 H290 May be corrosive to metals.

Eye Dam. 1 H318 Causes serious eye damage.



Skin Irrit. 2 H315 Causes skin irritation.

- **Label elements**
- **GHS label elements**  
The product is classified and labelled according to the Globally Harmonised System (GHS).
- **Hazard pictograms**



GHS05

- **Signal word** Danger
- **Hazard-determining components of labelling:**  
nitric acid
- **Hazard statements**  
H290 May be corrosive to metals.  
H315 Causes skin irritation.

(Contd. on page 2)

-AU

## Safety Data Sheet

### according to WHS Regulations

Printing date 29.10.2021

Version number 1

Revision: 29.10.2021

**Product name: IntelliQuant Multi-Element Standard 3 [100 mL bottle]**

(Contd. from page 1)

*H318 Causes serious eye damage.*

· **Precautionary statements**

P280 Wear protective gloves / eye protection / face protection.

P305+P351+P338 *IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*

P310 Immediately call a POISON CENTER/doctor.

P321 Specific treatment (see on this label).

P332+P313 If skin irritation occurs: Get medical advice/attention.

P406 Store in corrosive resistant container /container with a corrosion resistant inner liner.

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

### 3 Composition and Information on Ingredients

· **Chemical characterisation: Mixtures**

· **Description:**

Aqueous solution.

Also contains substances at levels not considered to be hazardous.




· **Dangerous components:**

CAS: 7697-37-2

nitric acid

<5%

RTECS: QU5775000

 Ox. Liq. 3, H272;  Acute Tox. 3, H331;  Met. Corr.1, H290; Skin Corr. 1A, H314

· **Additional information:**

The concentration of the acid stated in this SDS is calculated as an absolute mass concentration (%w/v). This is less than the acid concentration stated on the product label and COA, which reflects a percent value of the commercially available concentrated aqueous form of the acid.

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:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

· **After swallowing:** Rinse mouth. Do not induce vomiting.

· **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.

AU

(Contd. on page 3)

## Safety Data Sheet according to WHS Regulations

Printing date 29.10.2021

Version number 1

Revision: 29.10.2021

**Product name: IntelliQuant Multi-Element Standard 3 [100 mL bottle]**

(Contd. from page 2)

### 5 Fire Fighting Measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable for surrounding conditions.
- **Special hazards arising from the substance or mixture**  
Formation of toxic gases is possible during heating or in case of fire.
- **Advice for firefighters**
- **Protective equipment:**  
HazChem Code: 2X  
Wear self-contained respiratory protective device.

### 6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**  
Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Use neutralising agent.  
Dispose of contaminated material as waste according to item 13.  
Absorb liquid components with liquid-binding material.  
**DO NOT USE SAWDUST.**
- **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** Store in cool, dry place in tightly closed receptacles.
- **Information about fire - and explosion protection:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Please refer to the manufacturer's certificate for specific storage and transport temperature conditions.  
Store only in the original receptacle unless other advice is given on the CoA.  
Keep container in a well-ventilated place. Keep away from sources of ignition and heat.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:** Keep container tightly sealed.
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls and personal protection

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

(Contd. on page 4)

AU

## Safety Data Sheet

*according to WHS Regulations*

Printing date 29.10.2021

Version number 1

Revision: 29.10.2021

**Product name: IntelliQuant Multi-Element Standard 3 [100 mL bottle]**

(Contd. from page 3)

- **Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

**CAS: 7697-37-2 nitric acid**

WES Short-term value: 10 mg/m<sup>3</sup>, 4 ppm

Long-term value: 5.2 mg/m<sup>3</sup>, 2 ppm

- **Additional information:** Lists used were valid at the time of SDS preparation.

- **Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

- **Respiratory protection:**

Not required.

Use suitable respiratory protective device in case of insufficient ventilation.

- **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374



Protective gloves

- **Material of gloves**

PVC gloves

Neoprene gloves

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

### 9 Physical and Chemical Properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

**Form:** Liquid

**Colour:** Colourless

- **Odour:** Odourless

(Contd. on page 5)

## Safety Data Sheet

### according to WHS Regulations

Printing date 29.10.2021

Version number 1

Revision: 29.10.2021

**Product name: IntelliQuant Multi-Element Standard 3 [100 mL bottle]**

(Contd. from page 4)

· <b>Odour threshold:</b>	<i>Not determined.</i>
· <b>pH-value:</b>	< 2
· <b>Change in condition</b> <b>Melting point/freezing point:</b>	<i>Not determined.</i> <i>Not determined.</i>
<b>Initial boiling point and boiling range:</b>	<i>Not determined.</i>
· <b>Flash point:</b>	<i>Not applicable.</i>
· <b>Flammability (solid, gas):</b>	<i>Not determined.</i>
· <b>Ignition temperature:</b>	<i>Not determined</i>
· <b>Decomposition temperature:</b>	<i>Not determined.</i>
· <b>Auto-ignition temperature:</b>	<i>Product is not selfigniting.</i>
· <b>Explosive properties:</b>	<i>Not determined.</i>
· <b>Explosion limits:</b> <b>Lower:</b>	<i>Not determined.</i>
<b>Upper:</b>	<i>Not determined.</i>
· <b>Vapour pressure:</b>	<i>Not determined.</i>
· <b>Density:</b>	<i>Not determined.</i>
· <b>Relative density</b>	<i>Not determined.</i>
· <b>Vapour density</b>	<i>Not determined.</i>
· <b>Evaporation rate</b>	<i>Not determined.</i>
· <b>Solubility in / Miscibility with water:</b>	<i>Fully miscible.</i>
· <b>Partition coefficient: n-octanol/water:</b>	<i>Not determined.</i>
· <b>Viscosity:</b> <b>Dynamic:</b>	<i>Not determined.</i>
<b>Kinematic:</b>	<i>Not determined.</i>
· <b>Other information</b>	<i>No further relevant information available.</i>

### 10 Stability and Reactivity

- **Reactivity**  
*Stable under normal conditions.*  
*No further relevant information available.*
- **Chemical stability** *Stable under normal conditions.*
- **Thermal decomposition / conditions to be avoided:**  
*Formation of toxic gases is possible during heating or in case of fire.*
- **Possibility of hazardous reactions** *No dangerous reactions known.*
- **Conditions to avoid** *Heat.*
- **Incompatible materials:**  
*Strong oxidizing agents.*  
*Metals.*

(Contd. on page 6)

AU

## Safety Data Sheet according to WHS Regulations

Printing date 29.10.2021

Version number 1

Revision: 29.10.2021

**Product name: IntelliQuant Multi-Element Standard 3 [100 mL bottle]**

(Contd. from page 5)

· **Hazardous decomposition products:** Formation of toxic gases is possible during heating or in case of fire.

### 11 Toxicological Information

· **Information on toxicological effects**

· **Acute toxicity**

· **LD/LC50 values relevant for classification:**

**CAS: 7697-37-2 nitric acid**

Inhalative	LC50/4 h	2.65 mg/l (rat)
------------	----------	-----------------

· **Primary irritant effect:**

· **Skin corrosion/irritation** Irritant to skin and mucous membranes.

· **Serious eye damage/irritation**

Strong irritant with the danger of severe eye injury.

Causes serious eye damage.

· **Respiratory or skin sensitisation**

No sensitising effects known.

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

· **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

### 12 Ecological Information

· **Toxicity**

· **Aquatic toxicity:**

**CAS: 7697-37-2 nitric acid**

LC50/48	180 mg/l (crustacean)
---------	-----------------------

· **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 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

· **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 of together with household garbage. Do not allow product to reach sewage system.

(Contd. on page 7)

## Safety Data Sheet

according to WHS Regulations

Printing date 29.10.2021

Version number 1

Revision: 29.10.2021

**Product name: IntelliQuant Multi-Element Standard 3 [100 mL bottle]**

(Contd. from page 6)

- **Uncleaned packaging:**
- **Recommendation:** *Dispose of in accordance with national regulations.*
- **Recommended cleansing agents:** *Water, if necessary together with cleansing agents.*

### 14 Transport information

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>· <b>UN-Number</b></li> <li>· <b>ADG, IMDG, IATA</b></li> <li>· <b>ADG</b></li> <li>· <b>IMDG, IATA</b></li> </ul> | <p>UN3264<br/>3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID)<br/>CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID)</p> |
|---|--|

- **Transport hazard class(es)**
- **ADG, IMDG, IATA**



- |  |                                      |
|--|--------------------------------------|
| <ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul> | <p>8 Corrosive substances.<br/>8</p> |
|--|--------------------------------------|

- |  |            |
|--|------------|
| <ul style="list-style-type: none"> <li>· <b>Packing group</b></li> <li>· <b>ADG, IMDG, IATA</b></li> </ul> | <p>III</p> |
|--|------------|

- |   |                        |
|---|------------------------|
| <ul style="list-style-type: none"> <li>· <b>Environmental hazards:</b></li> </ul> | <p>Not applicable.</p> |
|---|------------------------|

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>· <b>Special precautions for user</b></li> <li>· <b>Hazard identification number (Kemler code):</b></li> <li>· <b>EMS Number:</b></li> <li>· <b>Segregation groups</b></li> <li>· <b>Stowage Category</b></li> <li>· <b>Stowage Code</b></li> </ul> | <p>Warning: Corrosive substances.<br/>80<br/>F-A,S-B<br/>Acids<br/>A<br/>SW2 Clear of living quarters.</p> |
|--|--|

- |   |                        |
|---|------------------------|
| <ul style="list-style-type: none"> <li>· <b>Transport in bulk according to Annex II of Marpol and the IBC Code</b></li> </ul> | <p>Not applicable.</p> |
|---|------------------------|

- **Transport/Additional information:**

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>· <b>ADG</b></li> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Excepted quantities (EQ)</b></li> <li>· <b>Transport category</b></li> <li>· <b>Tunnel restriction code</b></li> <li>· <b>Remarks:</b></li> </ul> | <p>5L<br/>Code: E1<br/>Maximum net quantity per inner packaging: 30 ml<br/>Maximum net quantity per outer packaging: 1000 ml<br/>3<br/>E<br/>HazChem Code: 2X</p> |
|---|---|

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>· <b>UN "Model Regulation":</b></li> </ul> | <p>UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID), 8, III</p> |
|---|--|

-AU-

(Contd. on page 8)

## Safety Data Sheet

according to WHS Regulations

Printing date 29.10.2021

Version number 1

Revision: 29.10.2021

**Product name: IntelliQuant Multi-Element Standard 3 [100 mL bottle]**

(Contd. from page 7)

### 15 Regulatory information

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

· Australian Inventory of Industrial Chemicals

CAS: 7732-18-5	Water	
CAS: 7697-37-2	nitric acid	
CAS: 1308-87-8	Didysprosium trioxide	
CAS: 1314-62-1	vanadium pentoxide	
CAS: 7440-15-5	rhenium	
CAS: 7440-48-4	Cobalt	
CAS: 13823-29-5	Thorium tetranitrate	

· Standard for the Uniform Scheduling of Medicines and Poisons

CAS: 7697-37-2	nitric acid	S5, S6
CAS: 7440-48-4	Cobalt	S4

· Australia: Priority Existing Chemicals

None of the ingredients is listed.

· Hazard pictograms



GHS05

· Signal word *Danger*

· Hazard-determining components of labelling:

nitric acid

· Hazard statements

H290 May be corrosive to metals.

H315 Causes skin irritation.

H318 Causes serious eye damage.

· Precautionary statements

P280 Wear protective gloves / eye protection / face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P321 Specific treatment (see on this label).

P332+P313 If skin irritation occurs: Get medical advice/attention.

P406 Store in corrosive resistant container /container with a corrosion resistant inner liner.

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

· 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.

(Contd. on page 9)

**Safety Data Sheet**  
**according to WHS Regulations**

Printing date 29.10.2021

Version number 1

Revision: 29.10.2021

**Product name: IntelliQuant Multi-Element Standard 3 [100 mL bottle]**

(Contd. from page 8)

**· Relevant phrases***H272 May intensify fire; oxidiser.**H290 May be corrosive to metals.**H314 Causes severe skin burns and eye damage.**H331 Toxic if inhaled.***· Contact:****· Abbreviations and acronyms:***ADR: Accord relatif au transport international 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**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)**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent**PBT: Persistent, Bioaccumulative and Toxic**vPvB: very Persistent and very Bioaccumulative**Ox. Liq. 3: Oxidizing liquids – Category 3**Met. Corr.1: Corrosive to metals – Category 1**Acute Tox. 3: Acute toxicity – Category 3**Skin Corr. 1A: Skin corrosion/irritation – Category 1A**Skin Irrit. 2: Skin corrosion/irritation – Category 2**Eye Dam. 1: Serious eye damage/eye irritation – Category 1***· Sources***Tables 3.1 and 3.2 from Annex 6 of EC 1272/2008, EC 1907/2006, EH40/2005 as amended 2011, Registry of Toxic Effects of Chemical Substances (RTECS), The Dictionary of Substances and their Effects, 1st Edition, IUCLID.***· Data compared to the previous version altered. All sections have been updated.**

AU

## Safety Data Sheet according to WHS Regulations

Printing date 02.11.2021

Version number 1

Revision: 02.11.2021

Hazardous according to criteria of Australian Safety and Compensation Council.

### 1 Identification

· **Product identifier**

· **Product name: IntelliQuant Multi-Element Standard 4 [100 mL bottle]**

· **Part number:** 5191-3936

· **Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

· **Application of the substance / the mixture** Reagents and Standards for Analytical Chemical Laboratory Use

· **Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

Agilent Technologies Australia Pty Ltd  
679 Springvale Road  
Mulgrave Victoria 3170,  
Australia

Tel: 1800 802 402

· **Further information obtainable from:** e-mail: [pdl-msds\\_author@agilent.com](mailto:pdl-msds_author@agilent.com)

· **Emergency telephone number:** CHEMTREC®: +(61)-290372994

### 2 Hazard(s) Identification

· **Classification of the substance or mixture**



corrosion

Met. Corr.1 H290 May be corrosive to metals.

Eye Dam. 1 H318 Causes serious eye damage.



Skin Irrit. 2 H315 Causes skin irritation.

· **Label elements**

· **GHS label elements**

The product is classified and labelled according to the Globally Harmonised System (GHS).

· **Hazard pictograms**



GHS05

· **Signal word** Danger

· **Hazard-determining components of labelling:**

nitric acid

· **Hazard statements**

H290 May be corrosive to metals.

H315 Causes skin irritation.

(Contd. on page 2)

AU



**Safety Data Sheet**  
according to WHS Regulations

Printing date 02.11.2021

Version number 1

Revision: 02.11.2021

**Product name: IntelliQuant Multi-Element Standard 4 [100 mL bottle]**

(Contd. from page 1)

H318 Causes serious eye damage.

**Precautionary statements**

P280 Wear protective gloves / eye protection / face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P321 Specific treatment (see on this label).

P332+P313 If skin irritation occurs: Get medical advice/attention.

P406 Store in corrosive resistant container /container with a corrosion resistant inner liner.

**Other hazards**

**Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

**3 Composition and Information on Ingredients**

**Chemical characterisation: Mixtures**

**Description:**

Aqueous solution.

Also contains substances at levels not considered to be hazardous.

**Dangerous components:**

CAS: 7697-37-2	nitric acid	<5%
RTECS: QU5775000	Ox. Liq. 3, H272;  Acute Tox. 3, H331;  Met. Corr.1, H290; Skin Corr. 1A, H314	

**Additional information:**

The concentration of the acid stated in this SDS is calculated as an absolute mass concentration (%w/v). This is less than the acid concentration stated on the product label and COA, which reflects a percent value of the commercially available concentrated aqueous form of the acid.

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:** Supply fresh air; consult doctor in case of complaints.

**After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

· **After swallowing:** Rinse mouth. Do not induce vomiting.

**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.

AU

(Contd. on page 3)

## Safety Data Sheet according to WHS Regulations

Printing date 02.11.2021

Version number 1

Revision: 02.11.2021

**Product name: IntelliQuant Multi-Element Standard 4 [100 mL bottle]**

(Contd. from page 2)

### 5 Fire Fighting Measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable for surrounding conditions.
- **Special hazards arising from the substance or mixture**  
Formation of toxic gases is possible during heating or in case of fire.
- **Advice for firefighters**
- **Protective equipment:**  
HazChem Code: 2X  
Wear self-contained respiratory protective device.

### 6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**  
Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Use neutralising agent.  
Dispose of contaminated material as waste according to item 13.  
Absorb liquid components with liquid-binding material.  
**DO NOT USE SAWDUST.**
- **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** Store in cool, dry place in tightly closed receptacles.
- **Information about fire - and explosion protection:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Please refer to the manufacturer's certificate for specific storage and transport temperature conditions.  
Store only in the original receptacle unless other advice is given on the CoA.  
Keep container in a well-ventilated place. Keep away from sources of ignition and heat.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:** Keep container tightly sealed.
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls and personal protection

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

(Contd. on page 4)

-AU-

## Safety Data Sheet

*according to WHS Regulations*

Printing date 02.11.2021

Version number 1

Revision: 02.11.2021

**Product name: IntelliQuant Multi-Element Standard 4 [100 mL bottle]**

(Contd. from page 3)

- **Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

**CAS: 7697-37-2 nitric acid**

WES Short-term value: 10 mg/m<sup>3</sup>, 4 ppm

Long-term value: 5.2 mg/m<sup>3</sup>, 2 ppm

- **Additional information:** Lists used were valid at the time of SDS preparation.

- **Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

- **Respiratory protection:**

Not required.

Use suitable respiratory protective device in case of insufficient ventilation.

- **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374



Protective gloves

- **Material of gloves**

PVC gloves

Neoprene gloves

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

### 9 Physical and Chemical Properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

**Form:** Liquid

**Colour:** Colourless

- **Odour:** Odourless

(Contd. on page 5)

## Safety Data Sheet

*according to WHS Regulations*

Printing date 02.11.2021

Version number 1

Revision: 02.11.2021

**Product name: IntelliQuant Multi-Element Standard 4 [100 mL bottle]**

(Contd. from page 4)

· <b>Odour threshold:</b>	<i>Not determined.</i>
· <b>pH-value:</b>	< 2
· <b>Change in condition</b> <b>Melting point/freezing point:</b>	<i>Not determined.</i> <i>Not determined.</i>
<b>Initial boiling point and boiling range:</b>	<i>Not determined.</i>
· <b>Flash point:</b>	<i>Not applicable.</i>
· <b>Flammability (solid, gas):</b>	<i>Not determined.</i>
· <b>Ignition temperature:</b>	<i>Not determined</i>
· <b>Decomposition temperature:</b>	<i>Not determined.</i>
· <b>Auto-ignition temperature:</b>	<i>Product is not selfigniting.</i>
· <b>Explosive properties:</b>	<i>Not determined.</i>
· <b>Explosion limits:</b> <b>Lower:</b>	<i>Not determined.</i>
<b>Upper:</b>	<i>Not determined.</i>
· <b>Vapour pressure:</b>	<i>Not determined.</i>
· <b>Density:</b>	<i>Not determined.</i>
· <b>Relative density</b>	<i>Not determined.</i>
· <b>Vapour density</b>	<i>Not determined.</i>
· <b>Evaporation rate</b>	<i>Not determined.</i>
· <b>Solubility in / Miscibility with water:</b>	<i>Fully miscible.</i>
· <b>Partition coefficient: n-octanol/water:</b>	<i>Not determined.</i>
· <b>Viscosity:</b> <b>Dynamic:</b>	<i>Not determined.</i>
<b>Kinematic:</b>	<i>Not determined.</i>
· <b>Other information</b>	<i>No further relevant information available.</i>

### 10 Stability and Reactivity

- **Reactivity**  
*Stable under normal conditions.*  
*No further relevant information available.*
- **Chemical stability** *Stable under normal conditions.*
- **Thermal decomposition / conditions to be avoided:**  
*Formation of toxic gases is possible during heating or in case of fire.*
- **Possibility of hazardous reactions** *No dangerous reactions known.*
- **Conditions to avoid** *Heat.*
- **Incompatible materials:**  
*Strong oxidizing agents.*  
*Metals.*

(Contd. on page 6)

## Safety Data Sheet according to WHS Regulations

Printing date 02.11.2021

Version number 1

Revision: 02.11.2021

**Product name: IntelliQuant Multi-Element Standard 4 [100 mL bottle]**

(Contd. from page 5)

- **Hazardous decomposition products:** Formation of toxic gases is possible during heating or in case of fire.

### 11 Toxicological Information

- **Information on toxicological effects**
- **Acute toxicity**

- **LD/LC50 values relevant for classification:**

<b>CAS: 7697-37-2 nitric acid</b>		
Inhalative	LC50/4 h	2.65 mg/l (rat)

- **Primary irritant effect:**

- **Skin corrosion/irritation** Irritant to skin and mucous membranes.

- **Serious eye damage/irritation**

Strong irritant with the danger of severe eye injury.

Causes serious eye damage.

- **Respiratory or skin sensitisation**

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

No sensitising effects known.

- **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

### 12 Ecological Information

- **Toxicity**

- **Aquatic toxicity:**

<b>CAS: 7697-37-2 nitric acid</b>		
LC50/48	180 mg/l	(crustacean)

- **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 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

- **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 of together with household garbage. Do not allow product to reach sewage system.

(Contd. on page 7)

## Safety Data Sheet

according to WHS Regulations

Printing date 02.11.2021

Version number 1

Revision: 02.11.2021

**Product name: IntelliQuant Multi-Element Standard 4 [100 mL bottle]**

(Contd. from page 6)

- **Uncleaned packaging:**
- **Recommendation:** Dispose of in accordance with national regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### 14 Transport information

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>· UN-Number</li> <li>· ADG, IMDG, IATA</li> <li>· ADG</li> </ul> | UN3264<br>3264 CORROSIVE LIQUID, ACIDIC, INORGANIC,<br>N.O.S. (NITRIC ACID) |
| <ul style="list-style-type: none"> <li>· IMDG, IATA</li> </ul>  | CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.<br>(NITRIC ACID)                |

- Transport hazard class(es)
- ADG, IMDG, IATA



- |  |                              |
|--|------------------------------|
| <ul style="list-style-type: none"> <li>· Class</li> <li>· Label</li> </ul> | 8 Corrosive substances.<br>8 |
|--|------------------------------|

- |  |     |
|--|-----|
| <ul style="list-style-type: none"> <li>· Packing group</li> <li>· ADG, IMDG, IATA</li> </ul> | III |
|--|-----|

- |  |                 |
|--|-----------------|
| <ul style="list-style-type: none"> <li>· Environmental hazards:</li> </ul> | Not applicable. |
|--|-----------------|

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>· Special precautions for user</li> <li>· Hazard identification number (Kemler code):</li> <li>· EMS Number:</li> <li>· Segregation groups</li> <li>· Stowage Category</li> <li>· Stowage Code</li> </ul> | Warning: Corrosive substances.<br>80<br>F-A,S-B<br>Acids<br>A<br>SW2 Clear of living quarters. |
|--|--|

- |  |                 |
|--|-----------------|
| <ul style="list-style-type: none"> <li>· Transport in bulk according to Annex II of Marpol and the IBC Code</li> </ul> | Not applicable. |
|--|-----------------|

· Transport/Additional information:

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>· ADG</li> <li>· Limited quantities (LQ)</li> <li>· Excepted quantities (EQ)</li> </ul> | 5L<br>Code: E1<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 1000 ml |
| <ul style="list-style-type: none"> <li>· Transport category</li> <li>· Tunnel restriction code</li> <li>· Remarks:</li> </ul>  | 3<br>E<br>HazChem Code: 2X   |

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>· UN "Model Regulation":</li> </ul> | UN 3264 CORROSIVE LIQUID, ACIDIC,<br>INORGANIC, N.O.S. (NITRIC ACID), 8, III |
|--|--|

-AU-

(Contd. on page 8)

## Safety Data Sheet

according to WHS Regulations

Printing date 02.11.2021

Version number 1

Revision: 02.11.2021

**Product name: IntelliQuant Multi-Element Standard 4 [100 mL bottle]**

(Contd. from page 7)

### 15 Regulatory information

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

· Australian Inventory of Industrial Chemicals

CAS: 7732-18-5	Water
CAS: 7697-37-2	nitric acid
CAS: 471-34-1	Calcium carbonate
CAS: 497-19-8	Sodium carbonate
CAS: 534-17-8	caesium carbonate
CAS: 554-13-2	Lithium carbonate
CAS: 7439-97-6	Mercury
CAS: 7440-28-0	thallium
CAS: 7440-43-9	cadmium
CAS: 7440-50-8	Copper
CAS: 7440-55-3	Gallium
CAS: 7440-66-6	zinc powder - zinc dust (stabilised)
CAS: 7440-69-9	Bismuth
CAS: 7440-74-6	Indium
CAS: 7757-79-1	Potassium nitrate
CAS: 7782-49-2	Selenium
CAS: 10022-31-8	Barium nitrate
CAS: 10042-76-9	Strontium nitrate
CAS: 10043-35-3	Boric acid
CAS: 13446-18-9	Magnesium nitrate hexahydrate

· Standard for the Uniform Scheduling of Medicines and Poisons

CAS: 7697-37-2	nitric acid	S5, S6
CAS: 7439-97-6	Mercury	S2, S4, S7
CAS: 7440-28-0	thallium	S7
CAS: 7782-49-2	Selenium	S2, S4, S6, S7
CAS: 10043-35-3	Boric acid	S5

· Australia: Priority Existing Chemicals

None of the ingredients is listed.

· Hazard pictograms



GHS05

· Signal word *Danger*

· Hazard-determining components of labelling:

nitric acid

(Contd. on page 9)

## Safety Data Sheet according to WHS Regulations

Printing date 02.11.2021

Version number 1

Revision: 02.11.2021

**Product name: IntelliQuant Multi-Element Standard 4 [100 mL bottle]**

(Contd. from page 8)

**· Hazard statements***H290 May be corrosive to metals.**H315 Causes skin irritation.**H318 Causes serious eye damage.***· Precautionary statements***P280 Wear protective gloves / eye protection / face protection.**P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.**P310 Immediately call a POISON CENTER/doctor.**P321 Specific treatment (see on this label).**P332+P313 If skin irritation occurs: Get medical advice/attention.**P406 Store in corrosive resistant container /container with a corrosion resistant inner liner.***· Directive 2012/18/EU****· Named dangerous substances - ANNEX I** None of the ingredients is listed.**· 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.**H290 May be corrosive to metals.**H314 Causes severe skin burns and eye damage.**H331 Toxic if inhaled.***· Contact:****· Abbreviations and acronyms:***ADR: Accord relatif au transport international 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**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)**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent**PBT: Persistent, Bioaccumulative and Toxic**vPvB: very Persistent and very Bioaccumulative**Ox. Liq. 3: Oxidizing liquids – Category 3**Met. Corr. 1: Corrosive to metals – Category 1**Acute Tox. 3: Acute toxicity – Category 3**Skin Corr. 1A: Skin corrosion/irritation – Category 1A**Skin Irrit. 2: Skin corrosion/irritation – Category 2**Eye Dam. 1: Serious eye damage/eye irritation – Category 1***· Sources**

Tables 3.1 and 3.2 from Annex 6 of EC 1272/2008, EC 1907/2006, EH40/2005 as amended 2011, Registry of Toxic Effects of Chemical Substances (RTECS), The Dictionary of Substances and their Effects, 1st Edition, IUCLID.

**· Data compared to the previous version altered.** All sections have been updated.

## Safety Data Sheet according to WHS Regulations

Printing date 02.11.2021

Version number 1

Revision: 02.11.2021

Hazardous according to criteria of Australian Safety and Compensation Council.

### 1 Identification

- **Product identifier**
- **Product name: IntelliQuant Multi-Element Standard 5 [100 mL bottle]**
- **Part number:** 5191-3937
- **Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Reagents and Standards for Analytical Chemical Laboratory Use
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Agilent Technologies Australia Pty Ltd Tel: 1800 802 402  
679 Springvale Road  
Mulgrave Victoria 3170,  
Australia
- **Further information obtainable from:** e-mail: [pdl-msds\\_author@agilent.com](mailto:pdl-msds_author@agilent.com)
- **Emergency telephone number:** CHEMTREC®: +(61)-290372994

### 2 Hazard(s) Identification

- **Classification of the substance or mixture**



Met. Corr.1 H290 May be corrosive to metals.

Eye Dam. 1 H318 Causes serious eye damage.



Skin Irrit. 2 H315 Causes skin irritation.

- **Label elements**
- **GHS label elements**  
The product is classified and labelled according to the Globally Harmonised System (GHS).
- **Hazard pictograms**



GHS05

- **Signal word** Danger
- **Hazard-determining components of labelling:**  
nitric acid
- **Hazard statements**  
H290 May be corrosive to metals.  
H315 Causes skin irritation.

(Contd. on page 2)

-AU

## Safety Data Sheet

### according to WHS Regulations

Printing date 02.11.2021

Version number 1

Revision: 02.11.2021

**Product name: IntelliQuant Multi-Element Standard 5 [100 mL bottle]**

(Contd. from page 1)

H318 Causes serious eye damage.

· **Precautionary statements**

P280 Wear protective gloves / eye protection / face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P321 Specific treatment (see on this label).

P332+P313 If skin irritation occurs: Get medical advice/attention.

P406 Store in corrosive resistant container /container with a corrosion resistant inner liner.

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

### 3 Composition and Information on Ingredients

· **Chemical characterisation: Mixtures**

· **Description:**

Aqueous solution.




Also contains substances at levels not considered to be hazardous.

· **Dangerous components:**

CAS: 7697-37-2

RTECS: QU5775000

nitric acid

 Ox. Liq. 3, H272;  Acute Tox. 3, H331;  Met. Corr.1, H290; Skin Corr. 1A, H314

<5%

· **Additional information:**

The concentration of the acid stated in this SDS is calculated as an absolute mass concentration (%w/v). This is less than the acid concentration stated on the product label and COA, which reflects a percent value of the commercially available concentrated aqueous form of the acid.

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:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

· **After swallowing:** Rinse mouth. Do not induce vomiting.

· **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.

AU

(Contd. on page 3)

## Safety Data Sheet according to WHS Regulations

Printing date 02.11.2021

Version number 1

Revision: 02.11.2021

**Product name: IntelliQuant Multi-Element Standard 5 [100 mL bottle]**

(Contd. from page 2)

### 5 Fire Fighting Measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable for surrounding conditions.
- **Special hazards arising from the substance or mixture**  
Formation of toxic gases is possible during heating or in case of fire.
- **Advice for firefighters**
- **Protective equipment:**  
HazChem Code: 2X  
Wear self-contained respiratory protective device.

### 6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**  
Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Use neutralising agent.  
Dispose of contaminated material as waste according to item 13.  
Absorb liquid components with liquid-binding material.  
**DO NOT USE SAWDUST.**
- **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** Store in cool, dry place in tightly closed receptacles.
- **Information about fire - and explosion protection:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Please refer to the manufacturer's certificate for specific storage and transport temperature conditions.  
Store only in the original receptacle unless other advice is given on the CoA.  
Keep container in a well-ventilated place. Keep away from sources of ignition and heat.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:** Keep container tightly sealed.
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls and personal protection

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

(Contd. on page 4)

AU

## Safety Data Sheet

*according to WHS Regulations*

Printing date 02.11.2021

Version number 1

Revision: 02.11.2021

**Product name: IntelliQuant Multi-Element Standard 5 [100 mL bottle]**

(Contd. from page 3)

- **Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

**CAS: 7697-37-2 nitric acid**

WES Short-term value: 10 mg/m<sup>3</sup>, 4 ppm

Long-term value: 5.2 mg/m<sup>3</sup>, 2 ppm

- **Additional information:** Lists used were valid at the time of SDS preparation.

- **Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

- **Respiratory protection:**

Not required.

Use suitable respiratory protective device in case of insufficient ventilation.

- **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374



Protective gloves

- **Material of gloves**

PVC gloves

Neoprene gloves

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

### 9 Physical and Chemical Properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

**Form:** Liquid

**Colour:** Colourless

- **Odour:** Odourless

(Contd. on page 5)

## Safety Data Sheet

*according to WHS Regulations*

Printing date 02.11.2021

Version number 1

Revision: 02.11.2021

**Product name: IntelliQuant Multi-Element Standard 5 [100 mL bottle]**

(Contd. from page 4)

· <b>Odour threshold:</b>	<i>Not determined.</i>
· <b>pH-value:</b>	< 2
· <b>Change in condition</b> <b>Melting point/freezing point:</b>	<i>Not determined.</i> <i>Not determined.</i>
<b>Initial boiling point and boiling range:</b>	<i>Not determined.</i>
· <b>Flash point:</b>	<i>Not applicable.</i>
· <b>Flammability (solid, gas):</b>	<i>Not determined.</i>
· <b>Ignition temperature:</b>	<i>Not determined</i>
· <b>Decomposition temperature:</b>	<i>Not determined.</i>
· <b>Auto-ignition temperature:</b>	<i>Product is not selfigniting.</i>
· <b>Explosive properties:</b>	<i>Not determined.</i>
· <b>Explosion limits:</b> <b>Lower:</b>	<i>Not determined.</i>
<b>Upper:</b>	<i>Not determined.</i>
· <b>Vapour pressure:</b>	<i>Not determined.</i>
· <b>Density:</b>	<i>Not determined.</i>
· <b>Relative density</b>	<i>Not determined.</i>
· <b>Vapour density</b>	<i>Not determined.</i>
· <b>Evaporation rate</b>	<i>Not determined.</i>
· <b>Solubility in / Miscibility with water:</b>	<i>Fully miscible.</i>
· <b>Partition coefficient: n-octanol/water:</b>	<i>Not determined.</i>
· <b>Viscosity:</b> <b>Dynamic:</b>	<i>Not determined.</i>
<b>Kinematic:</b>	<i>Not determined.</i>
· <b>Other information</b>	<i>No further relevant information available.</i>

### 10 Stability and Reactivity

- **Reactivity**  
*Stable under normal conditions.*  
*No further relevant information available.*
- **Chemical stability** *Stable under normal conditions.*
- **Thermal decomposition / conditions to be avoided:**  
*Formation of toxic gases is possible during heating or in case of fire.*
- **Possibility of hazardous reactions** *No dangerous reactions known.*
- **Conditions to avoid** *Heat.*
- **Incompatible materials:**  
*Strong oxidizing agents.*  
*Metals.*

(Contd. on page 6)

## Safety Data Sheet according to WHS Regulations

Printing date 02.11.2021

Version number 1

Revision: 02.11.2021

**Product name: IntelliQuant Multi-Element Standard 5 [100 mL bottle]**

(Contd. from page 5)

- **Hazardous decomposition products:** Formation of toxic gases is possible during heating or in case of fire.

### 11 Toxicological Information

- **Information on toxicological effects**
- **Acute toxicity**

- **LD/LC50 values relevant for classification:**

<b>CAS: 7697-37-2 nitric acid</b>		
Inhalative	LC50/4 h	2.65 mg/l (rat)

- **Primary irritant effect:**

- **Skin corrosion/irritation** Irritant to skin and mucous membranes.

- **Serious eye damage/irritation**

Strong irritant with the danger of severe eye injury.

Causes serious eye damage.

- **Respiratory or skin sensitisation**

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

No sensitising effects known.

- **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

### 12 Ecological Information

- **Toxicity**

- **Aquatic toxicity:**

<b>CAS: 7697-37-2 nitric acid</b>		
LC50/48	180 mg/l	(crustacean)

- **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 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

- **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 of together with household garbage. Do not allow product to reach sewage system.

(Contd. on page 7)

## Safety Data Sheet

according to WHS Regulations

Printing date 02.11.2021

Version number 1

Revision: 02.11.2021

**Product name: IntelliQuant Multi-Element Standard 5 [100 mL bottle]**

(Contd. from page 6)

- **Uncleaned packaging:**
- **Recommendation:** Dispose of in accordance with national regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### 14 Transport information

<ul style="list-style-type: none"> <li>· <b>UN-Number</b></li> <li>· <b>ADG, IMDG, IATA</b></li> <li>· <b>ADG</b></li> <li>· <b>IMDG, IATA</b></li> </ul>	UN3264 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID) CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID)
<ul style="list-style-type: none"> <li>· <b>Transport hazard class(es)</b></li> <li>· <b>ADG, IMDG, IATA</b></li> </ul>	
 <ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>	8 Corrosive substances. 8
<ul style="list-style-type: none"> <li>· <b>Packing group</b></li> <li>· <b>ADG, IMDG, IATA</b></li> </ul>	III
<ul style="list-style-type: none"> <li>· <b>Environmental hazards:</b></li> </ul>	Not applicable.
<ul style="list-style-type: none"> <li>· <b>Special precautions for user</b></li> <li>· <b>Hazard identification number (Kemler code):</b></li> <li>· <b>EMS Number:</b></li> <li>· <b>Segregation groups</b></li> <li>· <b>Stowage Category</b></li> <li>· <b>Stowage Code</b></li> </ul>	Warning: Corrosive substances. 80 F-A,S-B Acids A SW2 Clear of living quarters.
<ul style="list-style-type: none"> <li>· <b>Transport in bulk according to Annex II of Marpol and the IBC Code</b></li> </ul>	Not applicable.
<ul style="list-style-type: none"> <li>· <b>Transport/Additional information:</b></li> </ul>	
<ul style="list-style-type: none"> <li>· <b>ADG</b></li> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Excepted quantities (EQ)</b></li> <li>· <b>Transport category</b></li> <li>· <b>Tunnel restriction code</b></li> <li>· <b>Remarks:</b></li> </ul>	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml 3 E HazChem Code: 2X
<ul style="list-style-type: none"> <li>· <b>UN "Model Regulation":</b></li> </ul>	UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID), 8, III

-AU-

(Contd. on page 8)

## Safety Data Sheet

according to WHS Regulations

Printing date 02.11.2021

Version number 1

Revision: 02.11.2021

**Product name: IntelliQuant Multi-Element Standard 5 [100 mL bottle]**

(Contd. from page 7)

### 15 Regulatory information

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

· Australian Inventory of Industrial Chemicals

CAS: 7732-18-5	Water
CAS: 7697-37-2	nitric acid
CAS: 1313-97-9	neodymium oxide
CAS: 7784-27-2	Aluminium nitrate nonahydrate
CAS: 10421-48-4	ferric nitrate
CAS: 12037-29-5	Praseodymium oxide
CAS: 13106-76-8	Ammonium molybdate(VI)
CAS: 13520-83-7	uranyl nitrate, hexahydrate

· Standard for the Uniform Scheduling of Medicines and Poisons

CAS: 7697-37-2	nitric acid	S5, S6
----------------	-------------	--------

· Australia: Priority Existing Chemicals

None of the ingredients is listed.

· Hazard pictograms



GHS05

· Signal word Danger

· Hazard-determining components of labelling:

nitric acid

· Hazard statements

H290 May be corrosive to metals.

H315 Causes skin irritation.

H318 Causes serious eye damage.

· Precautionary statements

P280 Wear protective gloves / eye protection / face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P321 Specific treatment (see on this label).

P332+P313 If skin irritation occurs: Get medical advice/attention.

P406 Store in corrosive resistant container /container with a corrosion resistant inner liner.

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

· 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.

(Contd. on page 9)

**Safety Data Sheet**  
**according to WHS Regulations**

Printing date 02.11.2021

Version number 1

Revision: 02.11.2021

**Product name: IntelliQuant Multi-Element Standard 5 [100 mL bottle]**

(Contd. from page 8)

**· Relevant phrases***H272 May intensify fire; oxidiser.**H290 May be corrosive to metals.**H314 Causes severe skin burns and eye damage.**H331 Toxic if inhaled.***· Contact:****· Abbreviations and acronyms:***ADR: Accord relatif au transport international 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**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)**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent**PBT: Persistent, Bioaccumulative and Toxic**vPvB: very Persistent and very Bioaccumulative**Ox. Liq. 3: Oxidizing liquids – Category 3**Met. Corr.1: Corrosive to metals – Category 1**Acute Tox. 3: Acute toxicity – Category 3**Skin Corr. 1A: Skin corrosion/irritation – Category 1A**Skin Irrit. 2: Skin corrosion/irritation – Category 2**Eye Dam. 1: Serious eye damage/eye irritation – Category 1***· Sources***Tables 3.1 and 3.2 from Annex 6 of EC 1272/2008, EC 1907/2006, EH40/2005 as amended 2011, Registry of Toxic Effects of Chemical Substances (RTECS), The Dictionary of Substances and their Effects, 1st Edition, IUCLID.***· Data compared to the previous version altered. All sections have been updated.**

AU

## Safety Data Sheet according to WHS Regulations

Printing date 02.11.2021

Version number 1

Revision: 02.11.2021

Hazardous according to criteria of Australian Safety and Compensation Council.

### 1 Identification

- **Product identifier**
- **Product name: IntelliQuant Multi-Element Standard 6 [100mL Bottle]**
- **Part number:** 5191-3938
- **Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Reagents and Standards for Analytical Chemical Laboratory Use
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Agilent Technologies Australia Pty Ltd Tel: 1800 802 402  
679 Springvale Road  
Mulgrave Victoria 3170,  
Australia
- **Further information obtainable from:** e-mail: [pdl-msds\\_author@agilent.com](mailto:pdl-msds_author@agilent.com)
- **Emergency telephone number:** CHEMTREC®: +(61)-290372994

### 2 Hazard(s) Identification

- **Classification of the substance or mixture**



Met. Corr.1 H290 May be corrosive to metals.

Eye Dam. 1 H318 Causes serious eye damage.



Skin Irrit. 2 H315 Causes skin irritation.

- **Label elements**
- **GHS label elements**  
The product is classified and labelled according to the Globally Harmonised System (GHS).
- **Hazard pictograms**



GHS05

- **Signal word** Danger
- **Hazard-determining components of labelling:**  
nitric acid
- **Hazard statements**  
H290 May be corrosive to metals.  
H315 Causes skin irritation.

(Contd. on page 2)

-AU

## Safety Data Sheet

### according to WHS Regulations

Printing date 02.11.2021

Version number 1

Revision: 02.11.2021

**Product name: IntelliQuant Multi-Element Standard 6 [100mL Bottle]**

(Contd. from page 1)

H318 Causes serious eye damage.

· **Precautionary statements**

P280 Wear protective gloves / eye protection / face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P321 Specific treatment (see on this label).

P332+P313 If skin irritation occurs: Get medical advice/attention.

P406 Store in corrosive resistant container /container with a corrosion resistant inner liner.

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

### 3 Composition and Information on Ingredients

· **Chemical characterisation: Mixtures**

· **Description:**

Aqueous solution.

Also contains substances at levels not considered to be hazardous.

· **Dangerous components:**

CAS: 7697-37-2 RTECS: QU5775000	nitric acid ☠ Ox. Liq. 3, H272; ☠ Acute Tox. 3, H331; ☠ Met. Corr.1, H290; Skin Corr. 1A, H314	<5%
CAS: 7664-39-3 RTECS: MW7875000	hydrofluoric acid ☠ Acute Tox. 2, H300; Acute Tox. 1, H310; Acute Tox. 2, H330; ☠ Skin Corr. 1A, H314	<0.25%

· **Additional information:**

The concentration of the acid stated in this SDS is calculated as an absolute mass concentration (%w/v). This is less than the acid concentration stated on the product label and COA, which reflects a percent value of the commercially available concentrated aqueous form of the acid.

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:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

· **After swallowing:** Rinse mouth. Do not induce vomiting.

· **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.

AU

(Contd. on page 3)

## Safety Data Sheet according to WHS Regulations

Printing date 02.11.2021

Version number 1

Revision: 02.11.2021

**Product name: IntelliQuant Multi-Element Standard 6 [100mL Bottle]**

(Contd. from page 2)

### 5 Fire Fighting Measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable for surrounding conditions.
- **Special hazards arising from the substance or mixture**  
Formation of toxic gases is possible during heating or in case of fire.
- **Advice for firefighters**
- **Protective equipment:**  
HazChem Code: 2X  
Wear self-contained respiratory protective device.

### 6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures**  
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:**  
Use neutralising agent.  
Dispose of contaminated material as waste according to item 13.  
Absorb liquid components with liquid-binding material.  
**DO NOT USE SAWDUST.**
- **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** Store in cool, dry place in tightly closed receptacles.
- **Information about fire - and explosion protection:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Please refer to the manufacturer's certificate for specific storage and transport temperature conditions.  
Store only in the original receptacle unless other advice is given on the CoA.  
Keep container in a well-ventilated place. Keep away from sources of ignition and heat.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:** Keep container tightly sealed.
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls and personal protection

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

(Contd. on page 4)

AU

## Safety Data Sheet

*according to WHS Regulations*

Printing date 02.11.2021

Version number 1

Revision: 02.11.2021

**Product name: IntelliQuant Multi-Element Standard 6 [100mL Bottle]**

(Contd. from page 3)

- **Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

**CAS: 7697-37-2 nitric acid**

WES Short-term value: 10 mg/m<sup>3</sup>, 4 ppm

Long-term value: 5.2 mg/m<sup>3</sup>, 2 ppm

**CAS: 7664-39-3 hydrofluoric acid**

WES Peak limitation: 2.6 mg/m<sup>3</sup>, 3 ppm

- **Additional information:** Lists used were valid at the time of SDS preparation.

- **Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

- **Respiratory protection:**

Not required.

Use suitable respiratory protective device in case of insufficient ventilation.

- **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374



Protective gloves

- **Material of gloves**

PVC gloves

Neoprene gloves

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

-AU-

(Contd. on page 5)

## Safety Data Sheet

*according to WHS Regulations*

Printing date 02.11.2021

Version number 1

Revision: 02.11.2021

**Product name: IntelliQuant Multi-Element Standard 6 [100mL Bottle]**

(Contd. from page 4)

### 9 Physical and Chemical Properties

- *Information on basic physical and chemical properties*
- *General Information*
- *Appearance:*
  - Form:* Liquid
  - Colour:* Colourless
- *Odour:* Odourless
- *Odour threshold:* Not determined.
- *pH-value:* < 2
- *Change in condition*
  - Melting point/freezing point:* Not determined.  
Not determined.
  - Initial boiling point and boiling range:* Not determined.
- *Flash point:* Not applicable.
- *Flammability (solid, gas):* Not determined.
- *Ignition temperature:* Not determined
- *Decomposition temperature:* Not determined.
- *Auto-ignition temperature:* Product is not selfigniting.
- *Explosive properties:* Not determined.
- *Explosion limits:*
  - Lower:* Not determined.
  - Upper:* Not determined.
- *Vapour pressure:* Not determined.
- *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.
- *Other information* No further relevant information available.

### 10 Stability and Reactivity

- *Reactivity*
  - Stable under normal conditions.
  - No further relevant information available.
- *Chemical stability* Stable under normal conditions.

(Contd. on page 6)

## Safety Data Sheet

according to WHS Regulations

Printing date 02.11.2021

Version number 1

Revision: 02.11.2021

**Product name: IntelliQuant Multi-Element Standard 6 [100mL Bottle]**

(Contd. from page 5)

- **Thermal decomposition / conditions to be avoided:**  
Formation of toxic gases is possible during heating or in case of fire.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** Heat.
- **Incompatible materials:**  
Strong oxidizing agents.  
Metals.
- **Hazardous decomposition products:** Formation of toxic gases is possible during heating or in case of fire.

### 11 Toxicological Information

- **Information on toxicological effects**

- **Acute toxicity**

- **LD/LC50 values relevant for classification:**

CAS: 7697-37-2 nitric acid		
Inhalative	LC50/4 h	2.65 mg/l (rat)

- **Primary irritant effect:**

- **Skin corrosion/irritation** Irritant to skin and mucous membranes.

- **Serious eye damage/irritation**

Strong irritant with the danger of severe eye injury.

Causes serious eye damage.

- **Respiratory or skin sensitisation**

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

No sensitising effects known.

- **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

### 12 Ecological Information

- **Toxicity**

- **Aquatic toxicity:**

CAS: 7697-37-2 nitric acid	
LC50/48	180 mg/l (crustacean)

- **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 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

(Contd. on page 7)



**Safety Data Sheet**  
according to WHS Regulations

Printing date 02.11.2021

Version number 1

Revision: 02.11.2021

**Product name: IntelliQuant Multi-Element Standard 6 [100mL Bottle]**

(Contd. from page 6)

· **Other adverse effects** No further relevant information available.

**13 Disposal considerations**

- **Waste treatment methods**
- **Recommendation**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Dispose of in accordance with national regulations.

**14 Transport information**

· <b>UN-Number</b>	UN3264
· <b>ADG, IMDG, IATA</b>	3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID, HYDROFLUORIC ACID)
· <b>ADG</b>	
· <b>IMDG, IATA</b>	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID, HYDROFLUORIC ACID)

· **Transport hazard class(es)**  
· **ADG, IMDG, IATA**



· **Class** 8 Corrosive substances.  
· **Label** 8

· **Packing group**  
· **ADG, IMDG, IATA** III

· **Environmental hazards:** Not applicable.

· <b>Special precautions for user</b>	Warning: Corrosive substances.
· <b>Hazard identification number (Kemler code):</b>	80
· <b>EMS Number:</b>	F-A,S-B
· <b>Segregation groups</b>	Acids
· <b>Stowage Category</b>	A
· <b>Stowage Code</b>	SW2 Clear of living quarters.

· **Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.

· **Transport/Additional information:**

· <b>ADG</b>	
· <b>Limited quantities (LQ)</b>	5L
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>Transport category</b>	3

(Contd. on page 8)

## Safety Data Sheet

according to WHS Regulations

Printing date 02.11.2021

Version number 1

Revision: 02.11.2021

**Product name: IntelliQuant Multi-Element Standard 6 [100mL Bottle]**

(Contd. from page 7)

· <b>Tunnel restriction code</b>	E
· <b>Remarks:</b>	HazChem Code: 2X
· <b>UN "Model Regulation":</b>	UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID, HYDROFLUORIC ACID), 8, III

### 15 Regulatory information

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

· **Australian Inventory of Industrial Chemicals**

CAS: 7732-18-5	Water
CAS: 7697-37-2	nitric acid
CAS: 7664-39-3	hydrofluoric acid
CAS: 7440-31-5	Tin
CAS: 7440-32-6	Titanium
CAS: 7440-33-7	Tungsten
CAS: 7440-36-0	Antimony
CAS: 7440-56-4	Germanium
CAS: 7721-01-9	Tantalum pentachloride
CAS: 10026-12-7	niobium pentachloride
CAS: 16919-19-0	Ammonium silicofluoride

· **Standard for the Uniform Scheduling of Medicines and Poisons**

CAS: 7697-37-2	nitric acid	S5, S6
CAS: 7664-39-3	hydrofluoric acid	S5, S6, S7
CAS: 7440-36-0	Antimony	S4

· **Australia: Priority Existing Chemicals**

CAS: 7664-39-3	hydrofluoric acid
----------------	-------------------

· **Hazard pictograms**



GHS05

· **Signal word** Danger

· **Hazard-determining components of labelling:**

nitric acid

· **Hazard statements**

H290 May be corrosive to metals.

H315 Causes skin irritation.

H318 Causes serious eye damage.

· **Precautionary statements**

P280 Wear protective gloves / eye protection / face protection.

(Contd. on page 9)

**Safety Data Sheet**  
**according to WHS Regulations**

Printing date 02.11.2021

Version number 1

Revision: 02.11.2021

**Product name: IntelliQuant Multi-Element Standard 6 [100mL Bottle]**

(Contd. from page 8)

- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*
- P310 Immediately call a POISON CENTER/doctor.*
- P321 Specific treatment (see on this label).*
- P332+P313 If skin irritation occurs: Get medical advice/attention.*
- P406 Store in corrosive resistant container /container with a corrosion resistant inner liner.*

- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **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.*
- H290 May be corrosive to metals.*
- H300 Fatal if swallowed.*
- H310 Fatal in contact with skin.*
- H314 Causes severe skin burns and eye damage.*
- H330 Fatal if inhaled.*
- H331 Toxic if inhaled.*

· **Contact:**· **Abbreviations and acronyms:**

- ADR: Accord relatif au transport international 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*
- 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)*
- LC50: Lethal concentration, 50 percent*
- LD50: Lethal dose, 50 percent*
- PBT: Persistent, Bioaccumulative and Toxic*
- vPvB: very Persistent and very Bioaccumulative*
- Ox. Liq. 3: Oxidizing liquids – Category 3*
- Met. Corr.1: Corrosive to metals – Category 1*
- Acute Tox. 2: Acute toxicity – Category 2*
- Acute Tox. 1: Acute toxicity – Category 1*
- Acute Tox. 3: Acute toxicity – Category 3*
- Skin Corr. 1A: Skin corrosion/irritation – Category 1A*
- Skin Irrit. 2: Skin corrosion/irritation – Category 2*
- Eye Dam. 1: Serious eye damage/eye irritation – Category 1*

· **Sources**

*Tables 3.1 and 3.2 from Annex 6 of EC 1272/2008, EC 1907/2006, EH40/2005 as amended 2011, Registry of Toxic Effects of Chemical Substances (RTECS), The Dictionary of Substances and their Effects, 1st Edition, IUCLID.*

- **Data compared to the previous version altered.** All sections have been updated.

**Safety Data Sheet**  
according to WHS Regulations

Printing date 03.11.2021

Version number 1

Revision: 03.11.2021

Hazardous according to criteria of Australian Safety and Compensation Council.

**1 Identification**

- **Product identifier**
- **Product name: IntelliQuant Multi-Element Standard 7 [100 mL bottle]**
- **Part number:** 5191-3939
- **Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Reagents and Standards for Analytical Chemical Laboratory Use
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Agilent Technologies Australia Pty Ltd Tel: 1800 802 402  
679 Springvale Road  
Mulgrave Victoria 3170,  
Australia
- **Further information obtainable from:** e-mail: [pdl-msds\\_author@agilent.com](mailto:pdl-msds_author@agilent.com)
- **Emergency telephone number:** CHEMTREC®: +(61)-290372994

**2 Hazard(s) Identification**

- **Classification of the substance or mixture**



Met. Corr.1 H290 May be corrosive to metals.

- 
- **Label elements**
  - **GHS label elements**  
The product is classified and labelled according to the Globally Harmonised System (GHS).
  - **Hazard pictograms**



GHS05

- **Signal word** Warning
- **Hazard statements**  
H290 May be corrosive to metals.
- **Precautionary statements**  
P234 Keep only in original container.  
P390 Absorb spillage to prevent material damage.  
P406 Store in corrosive resistant container /container with a corrosion resistant inner liner.
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

AU

(Contd. on page 2)

## Safety Data Sheet according to WHS Regulations

Printing date 03.11.2021

Version number 1

Revision: 03.11.2021

**Product name: IntelliQuant Multi-Element Standard 7 [100 mL bottle]**

(Contd. from page 1)

### 3 Composition and Information on Ingredients

- **Chemical characterisation: Mixtures**
- **Description:**  
Aqueous solution.  
Also contains substances at levels not considered to be hazardous.

- **Dangerous components:**

CAS: 7647-01-0	Hydrochloric acid	<10%
RTECS: MW 9620000	 Acute Tox. 3, H331;  Skin Corr. 1B, H314; Eye Dam. 1, H318;  STOT SE 3, H335	

- **Additional information:**  
The concentration of the acid stated in this SDS is calculated as an absolute mass concentration (%w/v). This is less than the acid concentration stated on the product label and COA, which reflects a percent value of the commercially available concentrated aqueous form of the acid.  
For the wording of the listed hazard phrases refer to section 16.

### 4 First Aid Measures

- **Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** Rinse mouth. Do not induce vomiting.
- **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 Fire Fighting Measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable for surrounding conditions.
- **Special hazards arising from the substance or mixture**  
Formation of toxic gases is possible during heating or in case of fire.
- **Advice for firefighters**
- **Protective equipment:**  
HazChem Code: 2R  
Wear self-contained respiratory protective device.

### 6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**  
Dilute with plenty of water.  
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).

(Contd. on page 3)

## Safety Data Sheet according to WHS Regulations

Printing date 03.11.2021

Version number 1

Revision: 03.11.2021

**Product name: IntelliQuant Multi-Element Standard 7 [100 mL bottle]**

(Contd. from page 2)

- Use neutralising agent.
- Dispose of contaminated material as waste according to item 13.
- **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** Store in cool, dry place in tightly closed receptacles.
- **Information about fire - and explosion protection:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
- Please refer to the manufacturer's certificate for specific storage and transport temperature conditions.
- Store only in the original receptacle unless other advice is given on the CoA.
- Keep container in a well-ventilated place. Keep away from sources of ignition and heat.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:** Keep container tightly sealed.
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls and 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:**

CAS: 7647-01-0 Hydrochloric acid

WES | Peak limitation: 7.5 mg/m<sup>3</sup>, 5 ppm

- **Additional information:** Lists used were valid at the time of SDS preparation.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing
- Wash hands before breaks and at the end of work.
- Avoid contact with the eyes and skin.
- **Respiratory protection:**
- Not required.
- Use suitable respiratory protective device in case of insufficient ventilation.
- **Protection of hands:**
- The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
- Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

(Contd. on page 4)

## Safety Data Sheet

### according to WHS Regulations

Printing date 03.11.2021

Version number 1

Revision: 03.11.2021

**Product name: IntelliQuant Multi-Element Standard 7 [100 mL bottle]**

(Contd. from page 3)

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374



Protective gloves

- **Material of gloves**

PVC gloves

Neoprene gloves

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

### 9 Physical and Chemical Properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

**Form:** Liquid

**Colour:** Colourless

- **Odour:** Odourless

- **Odour threshold:** Not determined.

- **pH-value:** < 2

- **Change in condition**

**Melting point/freezing point:** Not determined.  
Not determined.

**Initial boiling point and boiling range:** Not determined.

- **Flash point:** Not applicable.

- **Flammability (solid, gas):** Not determined.

- **Ignition temperature:** Not determined

- **Decomposition temperature:** Not determined.

- **Auto-ignition temperature:** Product is not selfigniting.

- **Explosive properties:** Not determined.

- **Explosion limits:**

**Lower:** Not determined.

**Upper:** Not determined.

- **Vapour pressure:** Not determined.

- **Density:** Not determined.

(Contd. on page 5)

## Safety Data Sheet

### according to WHS Regulations

Printing date 03.11.2021

Version number 1

Revision: 03.11.2021

**Product name: IntelliQuant Multi-Element Standard 7 [100 mL bottle]**

(Contd. from page 4)

· <b>Relative density</b>	<i>Not determined.</i>
· <b>Vapour density</b>	<i>Not determined.</i>
· <b>Evaporation rate</b>	<i>Not determined.</i>
· <b>Solubility in / Miscibility with water:</b>	<i>Fully miscible.</i>
· <b>Partition coefficient: n-octanol/water:</b>	<i>Not determined.</i>
· <b>Viscosity:</b>	
<b>Dynamic:</b>	<i>Not determined.</i>
<b>Kinematic:</b>	<i>Not determined.</i>
· <b>Other information</b>	<i>No further relevant information available.</i>

### 10 Stability and Reactivity

- **Reactivity**  
*Stable under normal conditions.*  
*No further relevant information available.*
- **Chemical stability** *Stable under normal conditions.*
- **Thermal decomposition / conditions to be avoided:**  
*Formation of toxic gases is possible during heating or in case of fire.*
- **Possibility of hazardous reactions** *No dangerous reactions known.*
- **Conditions to avoid** *Heat.*
- **Incompatible materials:**  
*Strong oxidizing agents.*  
*Metals.*
- **Hazardous decomposition products:** *Formation of toxic gases is possible during heating or in case of fire.*

### 11 Toxicological Information

- **Information on toxicological effects**
- **Acute toxicity**
- **Primary irritant effect:**
- **Skin corrosion/irritation** *Based on available data, the classification criteria are not met.*
- **Serious eye damage/irritation** *Based on available data, the classification criteria are not met.*
- **Respiratory or skin sensitisation**  
*Based on available data, the classification criteria are not met.*  
*No sensitising effects known.*
- **Additional toxicological information:**  
*The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:*

### 12 Ecological Information

- **Toxicity**
- **Aquatic toxicity:** *No further relevant information available.*
- **Persistence and degradability** *No further relevant information available.*

(Contd. on page 6)

## Safety Data Sheet

### according to WHS Regulations

Printing date 03.11.2021

Version number 1

Revision: 03.11.2021

**Product name: IntelliQuant Multi-Element Standard 7 [100 mL bottle]**


(Contd. from page 5)

- **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 1 (German Regulation) (Self-assessment): slightly hazardous for water  
 Do not allow undiluted product to reach ground water, water course or sewage system.  
 Must not reach sewage water or drainage ditch undiluted or unneutralised.
- **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 of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Dispose of in accordance with national regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### 14 Transport information

- |   |  |   |
|---|--|---|
| <ul style="list-style-type: none"> <li>· <b>UN-Number</b></li> <li>· <b>ADG, IMDG, IATA</b></li> <li>· <b>ADG</b></li> <li>· <b>IMDG, IATA</b></li> </ul>   | <p style="margin: 0;">UN1789<br/>1789 HYDROCHLORIC ACID solution<br/>HYDROCHLORIC ACID solution</p>  |   |
| <ul style="list-style-type: none"> <li>· <b>Transport hazard class(es)</b></li> <li>· <b>ADG, IMDG, IATA</b></li> </ul>   | <div style="text-align: center; margin-bottom: 10px;">  </div> <ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul> | <p style="margin: 0;">8 Corrosive substances.<br/>8</p> |
| <ul style="list-style-type: none"> <li>· <b>Packing group</b></li> <li>· <b>ADG, IMDG, IATA</b></li> </ul>  | <p style="margin: 0;">II</p>   |   |
| <ul style="list-style-type: none"> <li>· <b>Environmental hazards:</b></li> </ul>   | <p style="margin: 0;">Not applicable.</p>  |   |
| <ul style="list-style-type: none"> <li>· <b>Special precautions for user</b></li> <li>· <b>Hazard identification number (Kemler code):</b></li> <li>· <b>EMS Number:</b></li> <li>· <b>Segregation groups</b></li> <li>· <b>Stowage Category</b></li> </ul> | <p style="margin: 0;">Warning: Corrosive substances.<br/>80<br/>F-A,S-B<br/>Acids<br/>A</p>  |   |

(Contd. on page 7)

## Safety Data Sheet

according to WHS Regulations

Printing date 03.11.2021

Version number 1

Revision: 03.11.2021

**Product name: IntelliQuant Multi-Element Standard 7 [100 mL bottle]**

(Contd. from page 6)

· <b>Stowage Code</b>	SW2 Clear of living quarters.
· <b>Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADG</b>	
· <b>Limited quantities (LQ)</b>	1L
· <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>Transport category</b>	2
· <b>Tunnel restriction code</b>	E
· <b>Remarks:</b>	HazChem Code: 2R
· <b>UN "Model Regulation":</b>	UN 1789 HYDROCHLORIC ACID SOLUTION, 8, II

### 15 Regulatory information

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

· **Australian Inventory of Industrial Chemicals**

CAS: 7732-18-5	Water
----------------	-------

CAS: 7647-01-0	Hydrochloric acid
----------------	-------------------

CAS: 7440-05-3	Palladium
----------------	-----------

CAS: 7440-06-4	Platinum
----------------	----------

CAS: 7440-57-5	Gold
----------------	------

CAS: 12125-08-5	Diammonium hexachloroosmate
-----------------	-----------------------------

· **Standard for the Uniform Scheduling of Medicines and Poisons**

CAS: 7647-01-0	Hydrochloric acid	S5, S6
----------------	-------------------	--------

· **Australia: Priority Existing Chemicals**

None of the ingredients is listed.

· **Hazard pictograms**



GHS05

· **Signal word** Warning

· **Hazard statements**

H290 May be corrosive to metals.

· **Precautionary statements**

P234 Keep only in original container.

P390 Absorb spillage to prevent material damage.

P406 Store in corrosive resistant container /container with a corrosion resistant inner liner.

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

(Contd. on page 8)

## Safety Data Sheet according to WHS Regulations

Printing date 03.11.2021

Version number 1

Revision: 03.11.2021

**Product name: IntelliQuant Multi-Element Standard 7 [100 mL bottle]**

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

(Contd. from page 7)

### 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**

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H331 Toxic if inhaled.

H335 May cause respiratory irritation.

· **Contact:**

· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international 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

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)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Met. Corr.1: Corrosive to metals – Category 1

Acute Tox. 3: Acute toxicity – Category 3

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

· **Sources**

Tables 3.1 and 3.2 from Annex 6 of EC 1272/2008, EC 1907/2006, EH40/2005 as amended 2011, Registry of Toxic Effects of Chemical Substances (RTECS), The Dictionary of Substances and their Effects, 1st Edition, IUCLID.

· **Data compared to the previous version altered.** All sections have been updated.

## Safety Data Sheet according to WHS Regulations

Printing date 03.11.2021

Version number 1

Revision: 03.11.2021

Hazardous according to criteria of Australian Safety and Compensation Council.

### 1 Identification

- **Product identifier**
- **Product name:** Calibration blank solution 5pct HNO<sub>3</sub> [500 mL bottle]
- **Part number:** 5190-7001
- **Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Reagents and Standards for Analytical Chemical Laboratory Use
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Agilent Technologies Australia Pty Ltd  
679 Springvale Road  
Mulgrave Victoria 3170,  
Australia  
Tel: 1800 802 402
- **Further information obtainable from:** e-mail: [pdl-msds\\_author@agilent.com](mailto:pdl-msds_author@agilent.com)
- **Emergency telephone number:** CHEMTREC®: +(61)-290372994

### 2 Hazard(s) Identification

- **Classification of the substance or mixture**



Met. Corr.1 H290 May be corrosive to metals.

Eye Dam. 1 H318 Causes serious eye damage.



Skin Irrit. 2 H315 Causes skin irritation.

- **Label elements**
- **GHS label elements**  
The product is classified and labelled according to the Globally Harmonised System (GHS).
- **Hazard pictograms**



GHS05

- **Signal word** Danger
- **Hazard-determining components of labelling:**  
nitric acid
- **Hazard statements**  
H290 May be corrosive to metals.  
H315 Causes skin irritation.

(Contd. on page 2)

-AU

## Safety Data Sheet

### according to WHS Regulations

Printing date 03.11.2021

Version number 1

Revision: 03.11.2021

**Product name: Calibration blank solution 5pct HNO<sub>3</sub> [500 mL bottle]**

(Contd. from page 1)

H318 Causes serious eye damage.

· **Precautionary statements**

P280 Wear protective gloves / eye protection / face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P321 Specific treatment (see on this label).

P332+P313 If skin irritation occurs: Get medical advice/attention.

P406 Store in corrosive resistant container /container with a corrosion resistant inner liner.

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

### 3 Composition and Information on Ingredients

· **Chemical characterisation: Mixtures**

· **Description:**

Aqueous solution.

Also contains substances at levels not considered to be hazardous.




· **Dangerous components:**

CAS: 7697-37-2

nitric acid

<5%

RTECS: QU5775000

 Ox. Liq. 3, H272;  Acute Tox. 3, H331;  Met. Corr.1, H290; Skin Corr. 1A, H314

· **Additional information:**

The concentration of the acid stated in this SDS is calculated as an absolute mass concentration (%w/v). This is less than the acid concentration stated on the product label and COA, which reflects a percent value of the commercially available concentrated aqueous form of the acid.

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:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

· **After swallowing:** Rinse mouth. Do not induce vomiting.

· **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.

AU

(Contd. on page 3)

## Safety Data Sheet according to WHS Regulations

Printing date 03.11.2021

Version number 1

Revision: 03.11.2021

**Product name: Calibration blank solution 5pct HNO<sub>3</sub> [500 mL bottle]**

(Contd. from page 2)

### 5 Fire Fighting Measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable for surrounding conditions.
- **Special hazards arising from the substance or mixture**  
Formation of toxic gases is possible during heating or in case of fire.
- **Advice for firefighters**
- **Protective equipment:**  
HazChem Code: 2X  
Wear self-contained respiratory protective device.

### 6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**  
Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Use neutralising agent.  
Dispose of contaminated material as waste according to item 13.  
Absorb liquid components with liquid-binding material.  
**DO NOT USE SAWDUST.**
- **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** Store in cool, dry place in tightly closed receptacles.
- **Information about fire - and explosion protection:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Please refer to the manufacturer's certificate for specific storage and transport temperature conditions.  
Store only in the original receptacle unless other advice is given on the CoA.  
Keep container in a well-ventilated place. Keep away from sources of ignition and heat.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:** Keep container tightly sealed.
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls and personal protection

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

(Contd. on page 4)

-AU-

## Safety Data Sheet

*according to WHS Regulations*

Printing date 03.11.2021

Version number 1

Revision: 03.11.2021

**Product name: Calibration blank solution 5pct HNO3 [500 mL bottle]**

(Contd. from page 3)

- **Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

**CAS: 7697-37-2 nitric acid**

WES	Short-term value: 10 mg/m <sup>3</sup> , 4 ppm
	Long-term value: 5.2 mg/m <sup>3</sup> , 2 ppm

- **Additional information:** Lists used were valid at the time of SDS preparation.

- **Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

- **Respiratory protection:**

Not required.

Use suitable respiratory protective device in case of insufficient ventilation.

- **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374



Protective gloves

- **Material of gloves**

PVC gloves

Neoprene gloves

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

### 9 Physical and Chemical Properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

**Form:** Liquid

**Colour:** Colourless

- **Odour:** Odourless

(Contd. on page 5)

## Safety Data Sheet

*according to WHS Regulations*

Printing date 03.11.2021

Version number 1

Revision: 03.11.2021

**Product name: Calibration blank solution 5pct HNO<sub>3</sub> [500 mL bottle]**

(Contd. from page 4)

· <b>Odour threshold:</b>	<i>Not determined.</i>
· <b>pH-value:</b>	< 2
· <b>Change in condition</b> <b>Melting point/freezing point:</b>	<i>Not determined.</i> <i>Not determined.</i>
<b>Initial boiling point and boiling range:</b>	<i>Not determined.</i>
· <b>Flash point:</b>	<i>Not applicable.</i>
· <b>Flammability (solid, gas):</b>	<i>Not determined.</i>
· <b>Ignition temperature:</b>	<i>Not determined</i>
· <b>Decomposition temperature:</b>	<i>Not determined.</i>
· <b>Auto-ignition temperature:</b>	<i>Product is not selfigniting.</i>
· <b>Explosive properties:</b>	<i>Not determined.</i>
· <b>Explosion limits:</b> <b>Lower:</b>	<i>Not determined.</i>
<b>Upper:</b>	<i>Not determined.</i>
· <b>Vapour pressure:</b>	<i>Not determined.</i>
· <b>Density:</b>	<i>Not determined.</i>
· <b>Relative density</b>	<i>Not determined.</i>
· <b>Vapour density</b>	<i>Not determined.</i>
· <b>Evaporation rate</b>	<i>Not determined.</i>
· <b>Solubility in / Miscibility with water:</b>	<i>Fully miscible.</i>
· <b>Partition coefficient: n-octanol/water:</b>	<i>Not determined.</i>
· <b>Viscosity:</b> <b>Dynamic:</b>	<i>Not determined.</i>
<b>Kinematic:</b>	<i>Not determined.</i>
· <b>Other information</b>	<i>No further relevant information available.</i>

### 10 Stability and Reactivity

- **Reactivity**  
*Stable under normal conditions.*  
*No further relevant information available.*
- **Chemical stability** *Stable under normal conditions.*
- **Thermal decomposition / conditions to be avoided:**  
*Formation of toxic gases is possible during heating or in case of fire.*
- **Possibility of hazardous reactions** *No dangerous reactions known.*
- **Conditions to avoid** *Heat.*
- **Incompatible materials:**  
*Strong oxidizing agents.*  
*Metals.*

(Contd. on page 6)

## Safety Data Sheet

### according to WHS Regulations

Printing date 03.11.2021

Version number 1

Revision: 03.11.2021

**Product name: Calibration blank solution 5pct HNO<sub>3</sub> [500 mL bottle]**

(Contd. from page 5)

- **Hazardous decomposition products:** Formation of toxic gases is possible during heating or in case of fire.

### 11 Toxicological Information

- **Information on toxicological effects**
- **Acute toxicity**

- **LD/LC50 values relevant for classification:**

<b>CAS: 7697-37-2 nitric acid</b>		
Inhalative	LC50/4 h	2.65 mg/l (rat)

- **Primary irritant effect:**

- **Skin corrosion/irritation** Irritant to skin and mucous membranes.

- **Serious eye damage/irritation** Strong irritant with the danger of severe eye injury.

- **Respiratory or skin sensitisation**

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

No sensitising effects known.

- **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

### 12 Ecological Information

- **Toxicity**

- **Aquatic toxicity:**

<b>CAS: 7697-37-2 nitric acid</b>		
LC50/48	180 mg/l	(crustacean)

- **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 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

- **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 of together with household garbage. Do not allow product to reach sewage system.

(Contd. on page 7)

## Safety Data Sheet

according to WHS Regulations

Printing date 03.11.2021

Version number 1


Revision: 03.11.2021

**Product name: Calibration blank solution 5pct HNO<sub>3</sub> [500 mL bottle]**

(Contd. from page 6)

- **Uncleaned packaging:**
- **Recommendation:** Dispose of in accordance with national regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### 14 Transport information

· <b>UN-Number</b>	UN3264
· <b>ADG, IMDG, IATA</b>	3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID)
· <b>ADG</b>	
· <b>IMDG, IATA</b>	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID)
· <b>Transport hazard class(es)</b>	
· <b>ADG, IMDG, IATA</b>	
	
· <b>Class</b>	8 Corrosive substances.
· <b>Label</b>	8
· <b>Packing group</b>	
· <b>ADG, IMDG, IATA</b>	III
· <b>Environmental hazards:</b>	Not applicable.
· <b>Special precautions for user</b>	Warning: Corrosive substances.
· <b>Hazard identification number (Kemler code):</b>	80
· <b>EMS Number:</b>	F-A,S-B
· <b>Segregation groups</b>	Acids
· <b>Stowage Category</b>	D
· <b>Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADG</b>	
· <b>Limited quantities (LQ)</b>	5L
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>Transport category</b>	3
· <b>Tunnel restriction code</b>	E
· <b>Remarks:</b>	HazChem Code: 2X
· <b>UN "Model Regulation":</b>	UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID), 8, III

AU

(Contd. on page 8)

## Safety Data Sheet according to WHS Regulations

Printing date 03.11.2021

Version number 1

Revision: 03.11.2021

**Product name: Calibration blank solution 5pct HNO3 [500 mL bottle]**

(Contd. from page 7)

### 15 Regulatory information

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

· **Australian Inventory of Industrial Chemicals**

All ingredients are listed.

· **Standard for the Uniform Scheduling of Medicines and Poisons**

CAS: 7697-37-2 nitric acid

S5, S6

· **Australia: Priority Existing Chemicals**

None of the ingredients is listed.

· **Hazard pictograms**



GHS05

· **Signal word** *Danger*

· **Hazard-determining components of labelling:**

nitric acid

· **Hazard statements**

H290 May be corrosive to metals.

H315 Causes skin irritation.

H318 Causes serious eye damage.

· **Precautionary statements**

P280 Wear protective gloves / eye protection / face protection.

P305+P351+P338 *IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*

P310 Immediately call a POISON CENTER/doctor.

P321 Specific treatment (see on this label).

P332+P313 If skin irritation occurs: Get medical advice/attention.

P406 Store in corrosive resistant container /container with a corrosion resistant inner liner.

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **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.

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H331 Toxic if inhaled.

(Contd. on page 9)

-AU

## Safety Data Sheet according to WHS Regulations

Printing date 03.11.2021

Version number 1

Revision: 03.11.2021

**Product name: Calibration blank solution 5pct HNO3 [500 mL bottle]**

(Contd. from page 8)

**· Contact:****· Abbreviations and acronyms:**

*ADR: Accord relatif au transport international 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*

*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)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

*PBT: Persistent, Bioaccumulative and Toxic*

*vPvB: very Persistent and very Bioaccumulative*

*Ox. Liq. 3: Oxidizing liquids – Category 3*

*Met. Corr.1: Corrosive to metals – Category 1*

*Acute Tox. 3: Acute toxicity – Category 3*

*Skin Corr. 1A: Skin corrosion/irritation – Category 1A*

*Skin Irrit. 2: Skin corrosion/irritation – Category 2*

*Eye Dam. 1: Serious eye damage/eye irritation – Category 1*

**· Sources**

*Tables 3.1 and 3.2 from Annex 6 of EC 1272/2008, EC 1907/2006, EH40/2005 as amended 2011, Registry of Toxic Effects of Chemical Substances (RTECS), The Dictionary of Substances and their Effects, 1st Edition, IUCLID.*

**· Data compared to the previous version altered.** All sections have been updated.