

## 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.

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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.

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### 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.

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- **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

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### 9 Physical and Chemical Properties

· <i>Information on basic physical and chemical properties</i>	
· <i>General Information</i>	
· <i>Appearance:</i>	
<i>Form:</i>	<i>Liquid</i>
<i>Colour:</i>	<i>Colourless</i>
· <i>Odour:</i>	<i>Odourless</i>
· <i>Odour threshold:</i>	<i>Not determined.</i>
· <i>pH-value:</i>	<i>&lt; 2</i>
· <i>Change in condition</i>	
<i>Melting point/freezing point:</i>	<i>Not determined.</i>
	<i>Not determined.</i>
<i>Initial boiling point and boiling range:</i>	<i>Not determined.</i>
· <i>Flash point:</i>	<i>Not applicable.</i>
· <i>Flammability (solid, gas):</i>	<i>Not determined.</i>
· <i>Ignition temperature:</i>	<i>Not determined</i>
· <i>Decomposition temperature:</i>	<i>Not determined.</i>
· <i>Auto-ignition temperature:</i>	<i>Product is not selfigniting.</i>
· <i>Explosive properties:</i>	<i>Not determined.</i>
· <i>Explosion limits:</i>	
<i>Lower:</i>	<i>Not determined.</i>
<i>Upper:</i>	<i>Not determined.</i>
· <i>Vapour pressure:</i>	<i>Not determined.</i>
· <i>Density:</i>	<i>Not determined.</i>
· <i>Relative density</i>	<i>Not determined.</i>
· <i>Vapour density</i>	<i>Not determined.</i>
· <i>Evaporation rate</i>	<i>Not determined.</i>
· <i>Solubility in / Miscibility with water:</i>	<i>Not miscible or difficult to mix.</i>
· <i>Partition coefficient: n-octanol/water:</i>	<i>Not determined.</i>
· <i>Viscosity:</i>	
<i>Dynamic:</i>	<i>Not determined.</i>
<i>Kinematic:</i>	<i>Not determined.</i>
· <i>Other information</i>	<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.*

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- **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)
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- **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)
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- **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.

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· **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

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· <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
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· **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.

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- 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.