SAFETY DATA SHEET

ICP-MS Checkout Solutions for 7500a/i/c, Part Number 5184-3565

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

1.1 Product identifier

Product name: ICP-MS Checkout Solutions for 7500a/i/c, Part Number 5184-3565
CAS number:
- Wash-Water Blank: 7732-18-5
- Dual Mode 1 Solution: Not applicable.
- Wash-Nitric Acid Blank: Not applicable.
- Dual Mode 2 Solution: Not applicable.
- ICP/MS Tuning Solution: Not applicable.

10ug/L

Part no. (chemical kit): 5184-3565
Part no.:
- Wash-Water Blank: G1820-60259
- Dual Mode 1 Solution: G1820-60372
- Wash-Nitric Acid Blank: G1820-60258
- Dual Mode 2 Solution: G1820-60410
- ICP/MS Tuning Solution: 5184-3566

Identified uses:
- Reagents and Standards for Analytical Chemistry Laboratory Use

Wash-Water Blank: 250 ml
Dual Mode 1 Solution: 100 ml solution
Wash-Nitric Acid Blank: 250 ml
Dual Mode 2 Solution: 100 ml solution
ICP/MS Tuning Solution 10ug/L: A set of 2 x 500 mL

Uses advised against:
- None known.

1.3 Details of the supplier of the safety data sheet

Agilent Technologies Deutschland GmbH
Hewlett-Packard-Str. 8
76337 Waldbronn
Germany
0800 603 1000

1.4 Emergency telephone number

Emergency telephone number (with hours of operation):

CHEMTREC®: +(44)-870-8200418

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition:
- Wash-Water Blank: Mono-constituent substance
- Dual Mode 1 Solution: Mixture
- Wash-Nitric Acid Blank: Mixture
- Dual Mode 2 Solution: Mixture
- ICP/MS Tuning Solution: Mixture

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

Date of issue/Date of revision: 21/10/2022
Date of previous issue: No previous validation
Version: 1
SECTION 2: Hazards identification

Wash-Nitric Acid Blank
H290  CORROSIVE TO METALS  Category 1
H314  SKIN CORROSION/IRRITATION  Category 1B

ICP/MS Tuning Solution 10ug/L
H290  CORROSIVE TO METALS  Category 1
H315  SKIN CORROSION/IRRITATION  Category 2
H319  SERIOUS EYE DAMAGE/EYE IRRITATION  Category 2

Signal word
Wash-Water Blank  No signal word.
Dual Mode 1 Solution  No signal word.
Wash-Nitric Acid Blank  Danger
Dual Mode 2 Solution  No signal word.
ICP/MS Tuning Solution 10ug/L  Warning

Hazard statements
Wash-Water Blank  No known significant effects or critical hazards.
Dual Mode 1 Solution  No known significant effects or critical hazards.
Wash-Nitric Acid Blank  H290 - May be corrosive to metals.
H314 - Causes severe skin burns and eye damage.
Dual Mode 2 Solution  No known significant effects or critical hazards.
ICP/MS Tuning Solution 10ug/L  H290 - May be corrosive to metals.
H314 - Causes skin irritation.
H319 - Causes serious eye irritation.

Precautionary statements
Prevention
Wash-Water Blank  Not applicable.
Dual Mode 1 Solution  Not applicable.
P280 - Wear protective gloves, protective clothing and eye or face protection.
Wash-Nitric Acid Blank  Not applicable.
Dual Mode 2 Solution  P280 - Wear protective gloves. Wear eye or face protection.
ICP/MS Tuning Solution 10ug/L  P234 - Keep only in original packaging.
P264 - Wash thoroughly after handling.
SECTION 2: Hazards identification

Response:
- Wash-Water Blank: Not applicable.
- Dual Mode 1 Solution: Not applicable.
- Wash-Nitric Acid Blank: P304 + P310 - IF INHALED: Immediately call a POISON CENTER or doctor.
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.
P303 + P361 + P353, P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor.
- Dual Mode 2 Solution: Not applicable.
- ICP/MS Tuning Solution 10ug/L: P390 - Absorb spillage to prevent material damage.
P362 + P364 - Take off contaminated clothing and wash it before reuse.
P302 + P352 - IF ON SKIN: Wash with plenty of water.

Storage:
- Wash-Water Blank: Not applicable.
- Dual Mode 1 Solution: Not applicable.
- Wash-Nitric Acid Blank: Not applicable.
- Dual Mode 2 Solution: Not applicable.
- ICP/MS Tuning Solution 10ug/L: Not applicable.

Disposal:
- Wash-Water Blank: Not applicable.
- Dual Mode 1 Solution: Not applicable.
- Wash-Nitric Acid Blank: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
- Dual Mode 2 Solution: Not applicable.
- ICP/MS Tuning Solution 10ug/L: Not applicable.

Hazardous ingredients:
- Wash-Nitric Acid Blank: - nitric acid
- ICP/MS Tuning Solution 10ug/L: Not applicable.

Supplemental label elements:
- Wash-Water Blank: Not applicable.
- Dual Mode 1 Solution: Not applicable.
- Wash-Nitric Acid Blank: Not applicable.
- Dual Mode 2 Solution: Not applicable.
- ICP/MS Tuning Solution 10ug/L: Not applicable.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles:
- Wash-Water Blank: Not applicable.
- Dual Mode 1 Solution: Not applicable.
- Wash-Nitric Acid Blank: Not applicable.
- Dual Mode 2 Solution: Not applicable.
- ICP/MS Tuning Solution 10ug/L: Not applicable.

Special packaging requirements:
- Tactile warning of danger:
  - Wash-Water Blank: Not applicable.
  - Dual Mode 1 Solution: Not applicable.
  - Wash-Nitric Acid Blank: Not applicable.
  - Dual Mode 2 Solution: Not applicable.
  - ICP/MS Tuning Solution 10ug/L: Not applicable.

2.3 Other hazards:
- Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII:

<table>
<thead>
<tr>
<th></th>
<th>PBT</th>
<th>B</th>
<th>T</th>
<th>vPvB</th>
<th>vP</th>
<th>vB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wash-Water Blank</td>
<td>Not applicable</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>Not applicable</td>
<td>N/A</td>
</tr>
</tbody>
</table>

(PBT = Persistent, Bioaccumulative, Toxic; vPvB = Very Persistent and Very Bioaccumulative)
ICP-MS Checkout Solutions for 7500a/i/c, Part Number 5184-3565

SECTION 2: Hazards identification

Dual Mode 1 Solution
Wash-Nitric Acid Blank
Dual Mode 2 Solution
ICP/MS Tuning Solution 10ug/L

Other hazards which do not result in classification:
Wash-Water Blank
Dual Mode 1 Solution
Wash-Nitric Acid Blank
Dual Mode 2 Solution
ICP/MS Tuning Solution 10ug/L

Wash-Water Blank
Dual Mode 1 Solution
Wash-Nitric Acid Blank
Dual Mode 2 Solution
ICP/MS Tuning Solution 10ug/L

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

SECTION 3: Composition/information on ingredients

3.1 Substances

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Identifiers</th>
<th>%</th>
<th>Classification</th>
<th>Specific Conc. Limits, M-factors and ATEs</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wash-Water Blank</td>
<td>water</td>
<td>100</td>
<td>Not classified.</td>
<td>-</td>
<td>[1]</td>
</tr>
<tr>
<td>Wash-Nitric Acid Blank</td>
<td>nitric acid [C ≤ 70%]</td>
<td>≤10</td>
<td>Ox. Liq. 3, H272 Acute Tox. 3, H331 Skin Corr. 1A, H314 EUH071</td>
<td>Ox. Liq. 3, H272: C ≥ 65% ATE [Inhalation (vapours)] = 2.65 mg/l Skin Corr. 1A, H314: C ≥ 20% Skin Corr. 1B, H314: 5% ≤ C &lt; 20%</td>
<td>[1] [2]</td>
</tr>
<tr>
<td>ICP/MS Tuning Solution 10ug/L</td>
<td>nitric acid [C ≤ 70%]</td>
<td>≤3</td>
<td>Ox. Liq. 3, H272 Acute Tox. 3, H331 Skin Corr. 1A, H314 EUH071</td>
<td>Ox. Liq. 3, H272: C ≥ 65% ATE [Inhalation (vapours)] = 2.65 mg/l Skin Corr. 1A, H314: C ≥ 20% Skin Corr. 1B, H314: 5% ≤ C &lt; 20%</td>
<td>[1] [2]</td>
</tr>
</tbody>
</table>

See Section 16 for the full text of the H statements declared above.

ICP-MS Checkout Solutions for 7500a/i/c, Part Number 5184-3565

SECTION 3: Composition/information on ingredients

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

Type

<table>
<thead>
<tr>
<th>Wash-Water Blank</th>
<th>[1] Constituent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wash-Nitric Acid Blank</td>
<td>[1] Substance classified with a health or environmental hazard</td>
</tr>
<tr>
<td></td>
<td>[2] Substance with a workplace exposure limit</td>
</tr>
<tr>
<td>ICP/MS Tuning Solution 10ug/L</td>
<td>[1] Substance classified with a health or environmental hazard</td>
</tr>
<tr>
<td></td>
<td>[2] Substance with a workplace exposure limit</td>
</tr>
</tbody>
</table>

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact

<table>
<thead>
<tr>
<th>Wash-Water Blank</th>
<th>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dual Mode 1 Solution</td>
<td>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.</td>
</tr>
<tr>
<td>Wash-Nitric Acid Blank</td>
<td>Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.</td>
</tr>
<tr>
<td>Dual Mode 2 Solution</td>
<td>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.</td>
</tr>
<tr>
<td>ICP/MS Tuning Solution 10ug/L</td>
<td>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.</td>
</tr>
</tbody>
</table>

Inhalation

<table>
<thead>
<tr>
<th>Wash-Water Blank</th>
<th>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dual Mode 1 Solution</td>
<td>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</td>
</tr>
<tr>
<td>Wash-Nitric Acid Blank</td>
<td>Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation or decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.</td>
</tr>
<tr>
<td>Dual Mode 2 Solution</td>
<td>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</td>
</tr>
</tbody>
</table>
| ICP/MS Tuning Solution 10ug/L | Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health
SECTION 4: First aid measures

**Skin contact**

- **Wash-Water Blank**: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- **Dual Mode 1 Solution**: Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- **Wash-Nitric Acid Blank**: Get medical attention immediately. Call a poison center or physician. Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- **Dual Mode 2 Solution**: Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- **ICP/MS Tuning Solution 10ug/L**: Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Ingestion**

- **Wash-Water Blank**: Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
- **Dual Mode 1 Solution**: Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
- **Wash-Nitric Acid Blank**: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- **Dual Mode 2 Solution**: Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
- **ICP/MS Tuning Solution 10ug/L**: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low.
SECTION 4: First aid measures

so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Protection of first-aiders:

- **Wash-Water Blank**
  - No action shall be taken involving any personal risk or without suitable training.

- **Dual Mode 1 Solution**
  - No action shall be taken involving any personal risk or without suitable training.

- **Wash-Nitric Acid Blank**
  - No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

- **Dual Mode 2 Solution**
  - No action shall be taken involving any personal risk or without suitable training.

- **ICP/MS Tuning Solution 10ug/L**
  - No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

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

#### Potential acute health effects

**Eye contact**

- **Wash-Water Blank**
  - No known significant effects or critical hazards.

- **Dual Mode 1 Solution**
  - No known significant effects or critical hazards.

- **Wash-Nitric Acid Blank**
  - Causes severe burns.

- **Dual Mode 2 Solution**
  - No known significant effects or critical hazards.

- **ICP/MS Tuning Solution 10ug/L**
  - Causes skin irritation.

**Inhalation**

- **Wash-Water Blank**
  - No known significant effects or critical hazards.

- **Dual Mode 1 Solution**
  - No known significant effects or critical hazards.

- **Wash-Nitric Acid Blank**
  - Causes serious eye irritation.

- **Dual Mode 2 Solution**
  - No known significant effects or critical hazards.

- **ICP/MS Tuning Solution 10ug/L**
  - Causes serious eye irritation.

**Skin contact**

- **Wash-Water Blank**
  - No known significant effects or critical hazards.

- **Dual Mode 1 Solution**
  - No known significant effects or critical hazards.

- **Wash-Nitric Acid Blank**
  - Causes severe burns.

- **Dual Mode 2 Solution**
  - No known significant effects or critical hazards.

- **ICP/MS Tuning Solution 10ug/L**
  - Causes skin irritation.

**Ingestion**

- **Wash-Water Blank**
  - No known significant effects or critical hazards.

- **Dual Mode 1 Solution**
  - No known significant effects or critical hazards.

- **Wash-Nitric Acid Blank**
  - Causes serious eye irritation.

- **Dual Mode 2 Solution**
  - No known significant effects or critical hazards.

- **ICP/MS Tuning Solution 10ug/L**
  - Causes serious eye irritation.

**Over-exposure signs/symptoms**

**Eye contact**

- **Wash-Water Blank**
  - No specific data.

- **Dual Mode 1 Solution**
  - No specific data.

- **Wash-Nitric Acid Blank**
  - Adverse symptoms may include the following:
    - pain
    - watering
    - redness

- **Dual Mode 2 Solution**
  - No specific data.

- **ICP/MS Tuning Solution 10ug/L**
  - Adverse symptoms may include the following:
    - pain or irritation
ICP-MS Checkout Solutions for 7500a/i/c, Part Number 5184-3565

SECTION 4: First aid measures

**Inhalation**
- Wash-Water Blank: No specific data.
- Dual Mode 1 Solution: No specific data.
- Wash-Nitric Acid Blank: No specific data.
- Dual Mode 2 Solution: No specific data.
- ICP/MS Tuning Solution 10ug/L: No specific data.

**Skin contact**
- Wash-Water Blank: No specific data.
- Dual Mode 1 Solution: No specific data.
- Wash-Nitric Acid Blank: No specific data.
- Dual Mode 2 Solution: Adverse symptoms may include the following:
  - pain or irritation
  - redness
  - blistering may occur
- ICP/MS Tuning Solution 10ug/L: Adverse symptoms may include the following:
  - irritation
  - redness

**Ingestion**
- Wash-Water Blank: No specific data.
- Dual Mode 1 Solution: No specific data.
- Wash-Nitric Acid Blank: Adverse symptoms may include the following:
  - stomach pains
- Dual Mode 2 Solution: No specific data.
- ICP/MS Tuning Solution 10ug/L: No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

**Notes to physician**
- Wash-Water Blank: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Dual Mode 1 Solution: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Wash-Nitric Acid Blank: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Dual Mode 2 Solution: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- ICP/MS Tuning Solution 10ug/L: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments**
- Dual Mode 1 Solution: No specific treatment.
- Wash-Nitric Acid Blank: No specific treatment.
- Dual Mode 2 Solution: No specific treatment.
- ICP/MS Tuning Solution 10ug/L: No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

**Suitable extinguishing media**
- Wash-Water Blank: Use an extinguishing agent suitable for the surrounding fire.
- Dual Mode 1 Solution: Use an extinguishing agent suitable for the surrounding fire.
- Wash-Nitric Acid Blank: Use an extinguishing agent suitable for the surrounding fire.
- Dual Mode 2 Solution: Use an extinguishing agent suitable for the surrounding fire.
- ICP/MS Tuning Solution 10ug/L: Use an extinguishing agent suitable for the surrounding fire.
SECTION 5: Firefighting measures

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products:
- Wash-Water Blank: No specific data.
- Dual Mode 1 Solution: No specific data.
- Wash-Nitric Acid Blank: Decomposition products may include the following materials: nitrogen oxides.
- Dual Mode 2 Solution: No specific data.
- ICP/MS Tuning Solution 10ug/L: Decomposition products may include the following materials: nitrogen oxides.

Special protective equipment for fire-fighters:
- Wash-Water Blank: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
- Dual Mode 1 Solution: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
- Wash-Nitric Acid Blank: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

5.3 Advice for firefighters

Special precautions for fire-fighters:
- Wash-Water Blank: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Dual Mode 1 Solution: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Wash-Nitric Acid Blank: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Dual Mode 2 Solution: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- ICP/MS Tuning Solution 10ug/L: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
## SECTION 5: Firefighting measures

<table>
<thead>
<tr>
<th>Solution</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dual Mode 2 Solution</td>
<td>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.</td>
</tr>
<tr>
<td>ICP/MS Tuning Solution 10ug/L</td>
<td>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.</td>
</tr>
</tbody>
</table>

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

<table>
<thead>
<tr>
<th>For non-emergency personnel</th>
<th>Wash-Water Blank</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dual Mode 1 Solution</td>
<td>No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.</td>
<td></td>
</tr>
<tr>
<td>Wash-Nitric Acid Blank</td>
<td>No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.</td>
<td></td>
</tr>
<tr>
<td>Dual Mode 2 Solution</td>
<td>No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.</td>
<td></td>
</tr>
<tr>
<td>ICP/MS Tuning Solution 10ug/L</td>
<td>No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>For emergency responders</th>
<th>Wash-Water Blank</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dual Mode 1 Solution</td>
<td>If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in &quot;For non-emergency personnel&quot;.</td>
<td></td>
</tr>
<tr>
<td>Wash-Nitric Acid Blank</td>
<td>If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in &quot;For non-emergency personnel&quot;.</td>
<td></td>
</tr>
<tr>
<td>Dual Mode 2 Solution</td>
<td>If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in &quot;For non-emergency personnel&quot;.</td>
<td></td>
</tr>
<tr>
<td>ICP/MS Tuning Solution 10ug/L</td>
<td>If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in &quot;For non-emergency personnel&quot;.</td>
<td></td>
</tr>
</tbody>
</table>
## SECTION 6: Accidental release measures

### 6.2 Environmental precautions

<table>
<thead>
<tr>
<th>Product</th>
<th>Precautions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wash-Water Blank</td>
<td>Avoid dispersal of spill material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</td>
</tr>
<tr>
<td>Dual Mode 1 Solution</td>
<td>Avoid dispersal of spill material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</td>
</tr>
<tr>
<td>Wash-Nitric Acid Blank</td>
<td>Avoid dispersal of spill material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</td>
</tr>
<tr>
<td>Dual Mode 2 Solution</td>
<td>Avoid dispersal of spill material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</td>
</tr>
<tr>
<td>ICP/MS Tuning Solution 10ug/L</td>
<td>Avoid dispersal of spill material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</td>
</tr>
</tbody>
</table>

### 6.3 Methods and material for containment and cleaning up

**Methods for cleaning up**

<table>
<thead>
<tr>
<th>Product</th>
<th>Precautions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wash-Water Blank</td>
<td>Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.</td>
</tr>
<tr>
<td>Dual Mode 1 Solution</td>
<td>Stop leak if without risk. The spilled material may be neutralized with sodium carbonate, sodium bicarbonate or sodium hydroxide. Move containers from spill area. Dispose of via a licensed waste disposal contractor.</td>
</tr>
<tr>
<td>Wash-Nitric Acid Blank</td>
<td>Stop leak if without risk. The spilled material may be neutralized with sodium carbonate, sodium bicarbonate or sodium hydroxide. Move containers from spill area. Absorb spillage to prevent material damage. Dispose of via a licensed waste disposal contractor.</td>
</tr>
<tr>
<td>Dual Mode 2 Solution</td>
<td>Stop leak if without risk. The spilled material may be neutralized with sodium carbonate, sodium bicarbonate or sodium hydroxide. Move containers from spill area. Dispose of via a licensed waste disposal contractor.</td>
</tr>
<tr>
<td>ICP/MS Tuning Solution 10ug/L</td>
<td>Stop leak if without risk. The spilled material may be neutralized with sodium carbonate, sodium bicarbonate or sodium hydroxide. Move containers from spill area. Absorb spillage to prevent material damage. Dispose of via a licensed waste disposal contractor.</td>
</tr>
</tbody>
</table>

### 6.4 Reference to other sections

- See Section 1 for emergency contact information.
- See Section 8 for information on appropriate personal protective equipment.
- See Section 13 for additional waste treatment information.
SECTION 7: Handling and storage

7.1 Precautions for safe handling

**Protective measures**

<table>
<thead>
<tr>
<th>Product</th>
<th>Protective Measures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wash-Water Blank</td>
<td>Put on appropriate personal protective equipment (see Section 8).</td>
</tr>
<tr>
<td>Dual Mode 1 Solution</td>
<td>Put on appropriate personal protective equipment (see Section 8). Keep away from alkalis.</td>
</tr>
<tr>
<td>Wash-Nitric Acid Blank</td>
<td>Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from alkalis. Empty containers retain product residue and can be hazardous. Do not reuse container. Absorb spillage to prevent material damage.</td>
</tr>
<tr>
<td>Dual Mode 2 Solution</td>
<td>Put on appropriate personal protective equipment (see Section 8). Keep away from alkalis.</td>
</tr>
<tr>
<td>ICP/MS Tuning Solution 10ug/L</td>
<td>Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from alkalis. Empty containers retain product residue and can be hazardous. Do not reuse container. Absorb spillage to prevent material damage.</td>
</tr>
</tbody>
</table>

Advice on general occupational hygiene:

<table>
<thead>
<tr>
<th>Product</th>
<th>Advice</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wash-Water Blank</td>
<td>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</td>
</tr>
<tr>
<td>Dual Mode 1 Solution</td>
<td>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</td>
</tr>
<tr>
<td>Wash-Nitric Acid Blank</td>
<td>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</td>
</tr>
<tr>
<td>Dual Mode 2 Solution</td>
<td>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</td>
</tr>
<tr>
<td>ICP/MS Tuning Solution 10ug/L</td>
<td>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</td>
</tr>
</tbody>
</table>

7.2 Conditions for safe storage, including any incompatibilities

**Storage**

-
SECTION 7: Handling and storage

### Wash-Water Blank
Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### Dual Mode 1 Solution
Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Separate from alkanis. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### Wash-Nitric Acid Blank
Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store in corrosive resistant container with a resistant inner liner. Store locked up. Separate from alkanis. Keep away from metals. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### Dual Mode 2 Solution
Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Separate from alkanis. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### ICP/MS Tuning Solution 10ug/L
Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store in corrosive resistant container with a resistant inner liner. Separate from alkanis. Keep away from metals. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### 7.3 Specific end use(s)

#### Recommendations
- **Wash-Water Blank**: Industrial applications, Professional applications.
- **Dual Mode 1 Solution**: Industrial applications, Professional applications.
- **Wash-Nitric Acid Blank**: Industrial applications, Professional applications.
- **Dual Mode 2 Solution**: Industrial applications, Professional applications.
- **ICP/MS Tuning Solution 10ug/L**: Industrial applications, Professional applications.
SECTION 7: Handling and storage

**Industrial sector specific solutions**
- Wash-Water Blank: Not available.
- Dual Mode 1 Solution: Not available.
- Wash-Nitric Acid Blank: Not available.
- Dual Mode 2 Solution: Not available.
- ICP/MS Tuning Solution: Not available.
- 10ug/L

SECTION 8: Exposure controls/personal protection

**8.1 Control parameters**

**Occupational exposure limits**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Exposure limit values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wash-Nitric Acid Blank [C ≤ 70%]</td>
<td>NAOSH (Ireland, 5/2021). Notes: EU derived Occupational Exposure Limit Values</td>
</tr>
<tr>
<td></td>
<td>OELV-15min: 1 ppm 15 minutes.</td>
</tr>
<tr>
<td></td>
<td>OELV-15min: 2.6 mg/m³ 15 minutes.</td>
</tr>
<tr>
<td>ICP/MS Tuning Solution 10ug/L [C ≤ 70%]</td>
<td>NAOSH (Ireland, 5/2021). Notes: EU derived Occupational Exposure Limit Values</td>
</tr>
<tr>
<td></td>
<td>OELV-15min: 1 ppm 15 minutes.</td>
</tr>
<tr>
<td></td>
<td>OELV-15min: 2.6 mg/m³ 15 minutes.</td>
</tr>
</tbody>
</table>

**Biological exposure indices**

None known.

**Recommended monitoring procedures**

Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

**DNELs/DMELs**

No DNELs/DMELs available.

**PNECs**

No PNECs available

**8.2 Exposure controls**

**Appropriate engineering controls**

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**Individual protection measures**

**Hygiene measures**

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection**

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

**Skin protection**
SECTION 8: Exposure controls/personal protection

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Appearance

<table>
<thead>
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<tbody>
<tr>
<td>Wash-Water Blank</td>
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<tr>
<td>Dual Mode 1 Solution</td>
<td>Liquid.</td>
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<tr>
<td>Wash-Nitric Acid Blank</td>
<td>Liquid.</td>
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<tr>
<td>ICP/MS Tuning Solution 10ug/L</td>
<td>Liquid.</td>
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</tbody>
</table>

Melting point/freezing point

<table>
<thead>
<tr>
<th>Thermal state</th>
<th>0°C</th>
<th>&lt;4°C</th>
<th>0°C</th>
<th>0°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wash-Water Blank</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dual Mode 1 Solution</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Wash-Nitric Acid Blank</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Dual Mode 2 Solution</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICP/MS Tuning Solution 10ug/L</td>
<td></td>
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</tbody>
</table>

Date of issue/Date of revision: 21/10/2022  Date of previous issue: No previous validation  Version: 1
**SECTION 9: Physical and chemical properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Wash-Water Blank</th>
<th>Dual Mode 1 Solution</th>
<th>Wash-Nitric Acid Blank</th>
<th>Dual Mode 2 Solution</th>
<th>ICP/MS Tuning Solution 10ug/L</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Initial boiling point and boiling range</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>pH</strong></td>
<td>7</td>
<td>&lt;2</td>
<td>&lt;2</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td><strong>Auto-ignition temperature</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Flash point</strong></td>
<td></td>
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<td></td>
</tr>
<tr>
<td><strong>Decomposition temperature</strong></td>
<td></td>
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</tr>
<tr>
<td><strong>Flammability</strong></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Upper/lower flammability or explosive limits</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Viscosity</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Solubility(ies)</strong></td>
<td>Media</td>
<td>Result</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wash-Water Blank</td>
<td>water</td>
<td>Soluble</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dual Mode 1 Solution</td>
<td>water</td>
<td>Soluble</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wash-Nitric Acid Blank</td>
<td>water</td>
<td>Soluble</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dual Mode 2 Solution</td>
<td>water</td>
<td>Soluble</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICP/MS Tuning Solution 10ug/L</td>
<td>water</td>
<td>Soluble</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Date of issue/Date of revision**: 21/10/2022  
**Date of previous issue**: No previous validation  
**Version**: 1
SECTION 9: Physical and chemical properties

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Vapour Pressure at 20°C</th>
<th>Vapour pressure at 50°C</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>mm Hg</td>
<td>kPa</td>
</tr>
<tr>
<td>Dual Mode 1 Solution</td>
<td></td>
<td></td>
</tr>
<tr>
<td>water</td>
<td>23.8</td>
<td>3.2</td>
</tr>
<tr>
<td>Nitric Acid Blank</td>
<td></td>
<td></td>
</tr>
<tr>
<td>nitric acid</td>
<td>48</td>
<td>6.4</td>
</tr>
<tr>
<td>water</td>
<td>23.8</td>
<td>3.2</td>
</tr>
<tr>
<td>Dual Mode 2 Solution</td>
<td></td>
<td></td>
</tr>
<tr>
<td>water</td>
<td>23.8</td>
<td>3.2</td>
</tr>
<tr>
<td>ICP/MS Tuning Solution 10ug/L</td>
<td></td>
<td></td>
</tr>
<tr>
<td>nitric acid</td>
<td>48</td>
<td>6.4</td>
</tr>
<tr>
<td>water</td>
<td>23.8</td>
<td>3.2</td>
</tr>
</tbody>
</table>

Evaporation rate:
- Wash-Water Blank: Not available.
- Dual Mode 1 Solution: Not available.
- Wash-Nitric Acid Blank: >1 (butyl acetate = 1)
- Dual Mode 2 Solution: Not available.
- ICP/MS Tuning Solution 10ug/L: >1 (butyl acetate = 1)

Relative density:
- Wash-Water Blank: 1
- Dual Mode 1 Solution: Not available.
- Wash-Nitric Acid Blank: 1.004
- Dual Mode 2 Solution: Not available.
- ICP/MS Tuning Solution 10ug/L: 1.008

Vapour density:
- Wash-Water Blank: 0.62 [Air = 1]
- Dual Mode 1 Solution: Not available.
- Wash-Nitric Acid Blank: Not available.
- Dual Mode 2 Solution: Not available.
- ICP/MS Tuning Solution 10ug/L: Not available.
ICP-MS Checkout Solutions for 7500a/i/c, Part Number 5184-3565

SECTION 9: Physical and chemical properties

### Explosive properties

<table>
<thead>
<tr>
<th></th>
<th>Wash-Water Blank</th>
<th>Dual Mode 1 Solution</th>
<th>Wash-Nitric Acid Blank</th>
<th>Dual Mode 2 Solution</th>
<th>ICP/MS Tuning Solution 10ug/L</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Non-explosive in the presence of the following materials or conditions: reducing materials, combustible materials and metals.</td>
</tr>
</tbody>
</table>

### Oxidising properties

<table>
<thead>
<tr>
<th></th>
<th>Wash-Water Blank</th>
<th>Dual Mode 1 Solution</th>
<th>Wash-Nitric Acid Blank</th>
<th>Dual Mode 2 Solution</th>
<th>ICP/MS Tuning Solution 10ug/L</th>
</tr>
</thead>
</table>

### Particle characteristics

#### Median particle size

<table>
<thead>
<tr>
<th></th>
<th>Wash-Water Blank</th>
<th>Dual Mode 1 Solution</th>
<th>Wash-Nitric Acid Blank</th>
<th>Dual Mode 2 Solution</th>
<th>ICP/MS Tuning Solution 10ug/L</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

### 9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

### 10.1 Reactivity

<table>
<thead>
<tr>
<th></th>
<th>Wash-Water Blank</th>
<th>Dual Mode 1 Solution</th>
<th>Wash-Nitric Acid Blank</th>
<th>Dual Mode 2 Solution</th>
<th>ICP/MS Tuning Solution 10ug/L</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
<td></td>
</tr>
</tbody>
</table>

### 10.2 Chemical stability

<table>
<thead>
<tr>
<th></th>
<th>Wash-Water Blank</th>
<th>Dual Mode 1 Solution</th>
<th>Wash-Nitric Acid Blank</th>
<th>Dual Mode 2 Solution</th>
<th>ICP/MS Tuning Solution 10ug/L</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>The product is stable.</td>
<td>The product is stable.</td>
<td>The product is stable.</td>
<td>The product is stable.</td>
<td></td>
</tr>
</tbody>
</table>

### 10.3 Possibility of hazardous reactions

<table>
<thead>
<tr>
<th></th>
<th>Wash-Water Blank</th>
<th>Dual Mode 1 Solution</th>
<th>Wash-Nitric Acid Blank</th>
<th>Dual Mode 2 Solution</th>
<th>ICP/MS Tuning Solution 10ug/L</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Under normal conditions of storage and use, hazardous reactions will not occur.</td>
<td>Under normal conditions of storage and use, hazardous reactions will not occur.</td>
<td>Under normal conditions of storage and use, hazardous reactions will not occur.</td>
<td>Under normal conditions of storage and use, hazardous reactions will not occur.</td>
<td>Under normal conditions of storage and use, hazardous reactions will not occur.</td>
</tr>
</tbody>
</table>

ICP-MS Checkout Solutions for 7500a/i/c, Part Number 5184-3565

SECTION 10: Stability and reactivity

10.4 Conditions to avoid

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wash-Water Blank</td>
<td>No specific data.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dual Mode 1 Solution</td>
<td>No specific data.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wash-Nitric Acid Blank</td>
<td>No specific data.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dual Mode 2 Solution</td>
<td>No specific data.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICP/MS Tuning Solution</td>
<td>No specific data.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10ug/L</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

10.5 Incompatible materials

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wash-Water Blank</td>
<td>May react or be incompatible with oxidising materials.</td>
</tr>
<tr>
<td>Dual Mode 1 Solution</td>
<td>Attacks many metals producing extremely flammable hydrogen gas which can form explosive mixtures with air. Reactive or incompatible with the following materials: alkalis</td>
</tr>
<tr>
<td>Wash-Nitric Acid Blank</td>
<td>Attacks many metals producing extremely flammable hydrogen gas which can form explosive mixtures with air. Reactive or incompatible with the following materials: alkalis, metals</td>
</tr>
<tr>
<td>Dual Mode 2 Solution</td>
<td>Attacks many metals producing extremely flammable hydrogen gas which can form explosive mixtures with air. Reactive or incompatible with the following materials: alkalis</td>
</tr>
<tr>
<td>ICP/MS Tuning Solution</td>
<td>Attacks many metals producing extremely flammable hydrogen gas which can form explosive mixtures with air. Reactive or incompatible with the following materials: alkalis, metals</td>
</tr>
<tr>
<td>10ug/L</td>
<td></td>
</tr>
</tbody>
</table>

10.6 Hazardous decomposition products

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wash-Water Blank</td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
</tr>
<tr>
<td>Dual Mode 1 Solution</td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
</tr>
<tr>
<td>Wash-Nitric Acid Blank</td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
</tr>
<tr>
<td>Dual Mode 2 Solution</td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
</tr>
<tr>
<td>ICP/MS Tuning Solution</td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
</tr>
<tr>
<td>10ug/L</td>
<td></td>
</tr>
</tbody>
</table>

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wash-Nitric Acid Blank</td>
<td>LC50 Inhalation Vapour</td>
<td>Rat</td>
<td>2500 ppm</td>
<td>1 hours</td>
</tr>
<tr>
<td>[C ≤ 70%]</td>
<td>LC50 Inhalation Vapour</td>
<td>Rat</td>
<td>130 mg/m³</td>
<td>4 hours</td>
</tr>
<tr>
<td>ICP/MS Tuning Solution</td>
<td>LC50 Inhalation Vapour</td>
<td>Rat</td>
<td>2500 ppm</td>
<td>1 hours</td>
</tr>
<tr>
<td>10ug/L</td>
<td>LC50 Inhalation Vapour</td>
<td>Rat</td>
<td>130 mg/m³</td>
<td>4 hours</td>
</tr>
</tbody>
</table>

Acute toxicity estimates

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## SECTION 11: Toxicological information

### Product/ingredient name

<table>
<thead>
<tr>
<th></th>
<th>Oral (mg/kg)</th>
<th>Dermal (mg/kg)</th>
<th>Inhalation (gases) (ppm)</th>
<th>Inhalation (vapours) (mg/l)</th>
<th>Inhalation (dusts and mists) (mg/l)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dual Mode 1 Solution</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>1325.0</td>
<td>N/A</td>
</tr>
<tr>
<td>Wash-Nitric Acid Blank</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>53.0</td>
<td>N/A</td>
</tr>
<tr>
<td>Wash-Nitric Acid Blank</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>2.65</td>
<td>N/A</td>
</tr>
<tr>
<td>Dual Mode 2 Solution</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>1325.0</td>
<td>N/A</td>
</tr>
<tr>
<td>ICP/MS Tuning Solution 10ug/L</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>132.5</td>
<td>N/A</td>
</tr>
<tr>
<td>ICP/MS Tuning Solution 10ug/L</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>2.65</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### Irritation/Corrosion

- **Conclusion/Summary**: Not available.

### Sensitiser

- **Conclusion/Summary**: Not available.

### Mutagenicity

- **Conclusion/Summary**: Not available.

### Carcinogenicity

- **Conclusion/Summary**: Not available.

### Reproductive toxicity

- **Conclusion/Summary**: Not available.

### Teratogenicity

- **Conclusion/Summary**: Not available.

### Specific target organ toxicity (single exposure)

- Not available.

### Specific target organ toxicity (repeated exposure)

- Not available.

### Aspiration hazard

- Not available.

### Information on likely routes of exposure

- **Wash-Water Blank**: Not available.
- **Dual Mode 1 Solution**: Not available.
- **Wash-Nitric Acid Blank**: Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
- **Dual Mode 2 Solution**: Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
- **ICP/MS Tuning Solution 10ug/L**: Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

### Potential acute health effects

- **Inhalation**
  - Wash-Water Blank: No known significant effects or critical hazards.
  - Dual Mode 1 Solution: No known significant effects or critical hazards.
  - Wash-Nitric Acid Blank: No known significant effects or critical hazards.
  - Dual Mode 2 Solution: No known significant effects or critical hazards.
  - ICP/MS Tuning Solution 10ug/L: No known significant effects or critical hazards.

- **Ingestion**
  - Wash-Water Blank: No known significant effects or critical hazards.
  - Dual Mode 1 Solution: No known significant effects or critical hazards.
  - Wash-Nitric Acid Blank: No known significant effects or critical hazards.
  - Dual Mode 2 Solution: No known significant effects or critical hazards.
  - ICP/MS Tuning Solution 10ug/L: No known significant effects or critical hazards.
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SECTION 11: Toxicological information

Skin contact
- Wash-Water Blank: No known significant effects or critical hazards.
- Dual Mode 1 Solution: No known significant effects or critical hazards.
- Wash-Nitric Acid Blank: Causes severe burns.
- Dual Mode 2 Solution: No known significant effects or critical hazards.
- ICP/MS Tuning Solution 10ug/L: Causes skin irritation.

Eye contact
- Wash-Water Blank: No known significant effects or critical hazards.
- Dual Mode 1 Solution: No known significant effects or critical hazards.
- Wash-Nitric Acid Blank: Causes serious eye damage.
- Dual Mode 2 Solution: No known significant effects or critical hazards.
- ICP/MS Tuning Solution 10ug/L: Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation
- Wash-Water Blank: No specific data.
- Dual Mode 1 Solution: No specific data.
- Wash-Nitric Acid Blank: No specific data.
- Dual Mode 2 Solution: No specific data.
- ICP/MS Tuning Solution 10ug/L: No specific data.

Ingestion
- Wash-Water Blank: No specific data.
- Dual Mode 1 Solution: No specific data.
- Wash-Nitric Acid Blank: Adverse symptoms may include the following: stomach pains
- Dual Mode 2 Solution: No specific data.
- ICP/MS Tuning Solution 10ug/L: No specific data.

Skin contact
- Wash-Water Blank: No specific data.
- Dual Mode 1 Solution: No specific data.
- Wash-Nitric Acid Blank: Adverse symptoms may include the following:
  - pain or irritation
  - redness
  - blistering may occur
- Dual Mode 2 Solution: No specific data.
- ICP/MS Tuning Solution 10ug/L: Adverse symptoms may include the following:
  - irritation
  - redness

Eye contact
- Wash-Water Blank: No specific data.
- Dual Mode 1 Solution: No specific data.
- Wash-Nitric Acid Blank: Adverse symptoms may include the following:
  - pain
  - watering
  - redness
- Dual Mode 2 Solution: No specific data.
- ICP/MS Tuning Solution 10ug/L: Adverse symptoms may include the following:
  - pain or irritation
  - watering
  - redness

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure
- Potential immediate effects: Not available.
- Potential delayed effects: Not available.

Long term exposure
- Potential immediate effects: Not available.
SECTION 11: Toxicological information

Potential delayed effects: Not available.

Potential chronic health effects:

General:
- Wash-Water Blank: No known significant effects or critical hazards.
- Dual Mode 1 Solution: No known significant effects or critical hazards.
- Wash-Nitric Acid Blank: No known significant effects or critical hazards.
- Dual Mode 2 Solution: No known significant effects or critical hazards.
- ICP/MS Tuning Solution 10μg/L: No known significant effects or critical hazards.

Carcinogenicity:
- Wash-Water Blank: No known significant effects or critical hazards.
- Dual Mode 1 Solution: No known significant effects or critical hazards.
- Wash-Nitric Acid Blank: No known significant effects or critical hazards.
- Dual Mode 2 Solution: No known significant effects or critical hazards.
- ICP/MS Tuning Solution 10μg/L: No known significant effects or critical hazards.

Mutagenicity:
- Wash-Water Blank: No known significant effects or critical hazards.
- Dual Mode 1 Solution: No known significant effects or critical hazards.
- Wash-Nitric Acid Blank: No known significant effects or critical hazards.
- Dual Mode 2 Solution: No known significant effects or critical hazards.
- ICP/MS Tuning Solution 10μg/L: No known significant effects or critical hazards.

Reproductive toxicity:
- Wash-Water Blank: No known significant effects or critical hazards.
- Dual Mode 1 Solution: No known significant effects or critical hazards.
- Wash-Nitric Acid Blank: No known significant effects or critical hazards.
- Dual Mode 2 Solution: No known significant effects or critical hazards.
- ICP/MS Tuning Solution 10μg/L: No known significant effects or critical hazards.

11.2 Information on other hazards
11.2.1 Endocrine disrupting properties
Not available.

11.2.2 Other information
Not available.

SECTION 12: Ecological information

12.1 Toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wash-Nitric Acid Blank nitric acid [C ≤ 70%]</td>
<td>Acute LC50 180000 μg/l Marine water</td>
<td>Crustaceans - Carcinus maenas - Adult</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 72 ppm Fresh water</td>
<td>Fish - Gambusia affinis - Adult</td>
<td>96 hours</td>
</tr>
<tr>
<td>ICP/MS Tuning Solution 10μg/L nitric acid [C ≤ 70%]</td>
<td>Acute LC50 180000 μg/l Marine water</td>
<td>Crustaceans - Carcinus maenas - Adult</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 72 ppm Fresh water</td>
<td>Fish - Gambusia affinis - Adult</td>
<td>96 hours</td>
</tr>
</tbody>
</table>

12.2 Persistence and degradability
Not available.
SECTION 12: Ecological information

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Aquatic half-life</th>
<th>Photolysis</th>
<th>Biodegradability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wash-Water Blank water</td>
<td>-</td>
<td>-</td>
<td>Readily</td>
</tr>
<tr>
<td>Wash-Nitric Acid Blank nitric acid [C ≤ 70%]</td>
<td>-</td>
<td>-</td>
<td>Readily</td>
</tr>
<tr>
<td>ICP/MS Tuning Solution 10ug/L nitric acid [C ≤ 70%]</td>
<td>-</td>
<td>-</td>
<td>Readily</td>
</tr>
</tbody>
</table>

12.3 Bioaccumulative potential

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>LogP&lt;sub&gt;ow&lt;/sub&gt;</th>
<th>BCF</th>
<th>Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wash-Water Blank water</td>
<td>-1.38</td>
<td>-</td>
<td>low</td>
</tr>
<tr>
<td>Wash-Nitric Acid Blank nitric acid [C ≤ 70%]</td>
<td>-0.21</td>
<td>-</td>
<td>low</td>
</tr>
<tr>
<td>ICP/MS Tuning Solution 10ug/L nitric acid [C ≤ 70%]</td>
<td>-0.21</td>
<td>-</td>
<td>low</td>
</tr>
</tbody>
</table>

12.4 Mobility in soil

- Soil/water partition coefficient (K<sub>OC</sub>) : Not available.
- Mobility : Not available.

12.5 Results of PBT and vPvB assessment

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>PBT</th>
<th>vPvB</th>
<th>vP</th>
<th>vB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wash-Water Blank water</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- **Methods of disposal**: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

- **Hazardous waste**: The classification of the product may meet the criteria for a hazardous waste.
**ICP-MS Checkout Solutions for 7500a/i/c, Part Number 5184-3565**

**SECTION 13: Disposal considerations**

**Methods of disposal**: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions**: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

**SECTION 14: Transport information**

<table>
<thead>
<tr>
<th><strong>14.1 UN number or ID number</strong></th>
<th><strong>ADR/RID</strong></th>
<th><strong>IMDG</strong></th>
<th><strong>IATA</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>14.2 UN proper shipping name</strong></td>
<td>CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Contains Nitric acid)</td>
<td>CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (nitric acid, solution)</td>
<td>Corrosive liquid, acidic, inorganic, n.o.s. (Contains Nitric acid)</td>
</tr>
<tr>
<td><strong>14.3 Transport hazard class(es)</strong></td>
<td>8</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td><strong>14.4 Packing group</strong></td>
<td>III</td>
<td>III</td>
<td>III</td>
</tr>
<tr>
<td><strong>14.5 Environmental hazards</strong></td>
<td>No.</td>
<td>No.</td>
<td>No.</td>
</tr>
</tbody>
</table>

**Additional information**

**ADR/RID**

- **Hazard identification number** 80
- **Limited quantity** 5 L
- **Special provisions** 274
- **Tunnel code** (E)

**IMDG**

- **Emergency schedules** F-A, S-B
- **Special provisions** 223, 274

**IATA**

- **Special provisions** A3, A803

**14.6 Special precautions for user**

- **Transport within user’s premises**: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**14.7 Transport in bulk according to IMO instruments**

- Not available.

**SECTION 15: Regulatory information**

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

- **EU Regulation (EC) No. 1907/2006 (REACH)**
  - **Annex XIV - List of substances subject to authorisation**
    - **Annex XIV**
      - None of the components are listed.
      - **Substances of very high concern**
        - None of the components are listed.

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SECTION 15: Regulatory information

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles
Not listed.

Label
- Wash-Water Blank: Not applicable.
- Dual Mode 1 Solution: Not applicable.
- Wash-Nitric Acid Blank: Not applicable.
- Dual Mode 2 Solution: Not applicable.
- ICP/MS Tuning Solution 10ug/L: Not applicable.

Other EU regulations
- Persistent Organic Pollutants: Not listed.
- Seveso Directive: This product is not controlled under the Seveso Directive.

International regulations
- UNECE Aarhus Protocol on POPs and Heavy Metals: Not listed.

Inventory list
- Australia: Not determined.
- Canada: At least one component is not listed in DSL but all such components are listed in NDSL.
- China: Not determined.
- Eurasian Economic Union: Russian Federation inventory: All components are listed or exempted.
- Japan: Japan inventory (CSCL): Not determined.
- Japan inventory (ISHL): Not determined.
- New Zealand: Not determined.
- Philippines: Not determined.
- Republic of Korea: Not determined.
- Taiwan: All components are listed or exempted.
- Thailand: Not determined.
- Turkey: Not determined.
- United States: All components are active or exempted.
- Viet Nam: Not determined.
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SECTION 15: Regulatory information

15.2 Chemical safety assessment

This product contains substances for which Chemical Safety Assessments might still be required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms:

- ATE = Acute Toxicity Estimate
- CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
- DNEL = Derived No Effect Level
- EUH statement = CLP-specific Hazard statement
- PNEC = Predicted No Effect Concentration
- RRN = REACH Registration Number

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

<table>
<thead>
<tr>
<th>Classification</th>
<th>Justification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wash-Nitric Acid Blank</td>
<td></td>
</tr>
<tr>
<td>Skin Corr. 1B, H314</td>
<td>Expert judgment</td>
</tr>
<tr>
<td>ICP/MS Tuning Solution 10ug/L</td>
<td></td>
</tr>
<tr>
<td>Skin Irrit. 2, H315</td>
<td>Expert judgment</td>
</tr>
<tr>
<td>Eye Irrit. 2, H319</td>
<td>Expert judgment</td>
</tr>
</tbody>
</table>

Full text of abbreviated H statements

**Wash-Nitric Acid Blank**
- H272: May intensify fire; oxidiser.
- H290: May be corrosive to metals.
- H314: Causes severe skin burns and eye damage.
- H331: Toxic if inhaled.
- EUH071: Corrosive to the respiratory tract.

**ICP/MS Tuning Solution 10ug/L**
- H272: May intensify fire; oxidiser.
- H290: May be corrosive to metals.
- H314: Causes severe skin burns and eye damage.
- H315: Causes skin irritation.
- H319: Causes serious eye irritation.
- H331: Toxic if inhaled.
- EUH071: Corrosive to the respiratory tract.

Full text of classifications [CLP/GHS]

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## SECTION 16: Other information

<table>
<thead>
<tr>
<th>Wash-Nitric Acid Blank</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Tox. 3</td>
<td>ACUTE TOXICITY - Category 3</td>
</tr>
<tr>
<td>Met. Corr. 1</td>
<td>CORROSIVE TO METALS - Category 1</td>
</tr>
<tr>
<td>Ox. Liq. 3</td>
<td>OXIDISING LIQUIDS - Category 3</td>
</tr>
<tr>
<td>Skin Corr. 1A</td>
<td>SKIN CORROSION/IRRITATION - Category 1A</td>
</tr>
<tr>
<td>Skin Corr. 1B</td>
<td>SKIN CORROSION/IRRITATION - Category 1B</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ICP/MS Tuning Solution 10ug/L</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Tox. 3</td>
<td>ACUTE TOXICITY - Category 3</td>
</tr>
<tr>
<td>Eye Irrit. 2</td>
<td>SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2</td>
</tr>
<tr>
<td>Met. Corr. 1</td>
<td>CORROSIVE TO METALS - Category 1</td>
</tr>
<tr>
<td>Ox. Liq. 3</td>
<td>OXIDISING LIQUIDS - Category 3</td>
</tr>
<tr>
<td>Skin Corr. 1A</td>
<td>SKIN CORROSION/IRRITATION - Category 1A</td>
</tr>
<tr>
<td>Skin Irrit. 2</td>
<td>SKIN CORROSION/IRRITATION - Category 2</td>
</tr>
</tbody>
</table>

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**Version**: 1

**Notice to reader**

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