

# SAFETY DATA SHEET



## Inorganic Anion Analysis Kit

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

#### 1.1 Product identifier

<b>Product name</b>	: Inorganic Anion Analysis Kit
<b>Part No. (Kit)</b>	: 5063-6511, 5063-6511-P
<b>Part No.</b>	: Ultra Pure Water for CE 5062-8578 Inorganic Anion Buffer Solution 8500-6797 Sodium Hydroxide Solution 1.0N for HPCE 5062-8576 Sodium Hydroxide Solution 0.1N for HPCE 5062-8575 Inorganic Anion Test Mixture 5062-8524

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

Identified uses	
Analytical chemistry.	
Ultra Pure Water for CE	500 ml
Inorganic Anion Buffer Solution	250 ml
Sodium Hydroxide Solution 1.0N for HPCE	250 ml
Sodium Hydroxide Solution 0.1N for HPCE	250 ml
Inorganic Anion Test Mixture	10 ml

#### 1.3 Details of the supplier of the safety data sheet

Agilent Technologies Manufacturing GmbH & Co. KG  
Hewlett-Packard-Str. 8  
76337 Waldbronn  
Germany  
0800 603 1000

**e-mail address of person responsible for this SDS** : pdl-msds\_author@agilent.com

#### 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

<b>Product definition</b>	: Ultra Pure Water for CE	Mono-constituent substance
	Inorganic Anion Buffer Solution	Mixture
	Sodium Hydroxide Solution 1.0N for HPCE	Mixture
	Sodium Hydroxide Solution 0.1N for HPCE	Mixture
	Inorganic Anion Test Mixture	Mixture

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

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**SECTION 2: Hazards identification**

**Sodium Hydroxide Solution 1.0N for HPCE**

**0N for HPCE**

H290

CORROSIVE TO METALS - Category 1

H314

SKIN CORROSION/IRRITATION - Category 1B

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

See Section 11 for more detailed information on health effects and symptoms.

**2.2 Label elements**

**Hazard pictograms**

: Sodium Hydroxide Solution 1.0N for HPCE



**Signal word**

: Ultra Pure Water for CE Inorganic Anion Buffer Solution  
Sodium Hydroxide Solution 1.0N for HPCE  
Sodium Hydroxide Solution 0.1N for HPCE  
Inorganic Anion Test Mixture

No signal word.  
No signal word.

Danger

No signal word.

No signal word.

**Hazard statements**

: Ultra Pure Water for CE Inorganic Anion Buffer Solution  
Sodium Hydroxide Solution 1.0N for HPCE  
  
Sodium Hydroxide Solution 0.1N for HPCE  
Inorganic Anion Test Mixture

No known significant effects or critical hazards.  
No known significant effects or critical hazards.

H290 - May be corrosive to metals.

H314 - Causes severe skin burns and eye damage.  
No known significant effects or critical hazards.

No known significant effects or critical hazards.

**Precautionary statements**

**Prevention**

: Ultra Pure Water for CE Inorganic Anion Buffer Solution  
Sodium Hydroxide Solution 1.0N for HPCE  
  
Sodium Hydroxide Solution 0.1N for HPCE  
Inorganic Anion Test Mixture

Not applicable.  
Not applicable.

P280 - Wear protective gloves. Wear protective clothing.  
Wear eye or face protection.

P234 - Keep only in original packaging.

Not applicable.

Not applicable.

**Response**

: Ultra Pure Water for CE Inorganic Anion Buffer Solution  
Sodium Hydroxide Solution 1.0N for HPCE  
  
Sodium Hydroxide Solution 0.1N for HPCE

Not applicable.  
Not applicable.

P304 + P340 + P310 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician.

P301 + P310 + P331 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting.

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 physician.

P305 + P310 - IF IN EYES: Immediately call a POISON CENTER or physician.

Not applicable.

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**SECTION 2: Hazards identification**

	Inorganic Anion Test Mixture	Not applicable.
<b>Storage</b>	: Ultra Pure Water for CE	Not applicable.
	Inorganic Anion Buffer Solution	Not applicable.
	Sodium Hydroxide Solution 1.0N for HPCE	P405 - Store locked up.
	Sodium Hydroxide Solution 0.1N for HPCE	Not applicable.
	Inorganic Anion Test Mixture	Not applicable.
<b>Disposal</b>	: Ultra Pure Water for CE	Not applicable.
	Inorganic Anion Buffer Solution	Not applicable.
	Sodium Hydroxide Solution 1.0N for HPCE	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
	Sodium Hydroxide Solution 0.1N for HPCE	Not applicable.
	Inorganic Anion Test Mixture	Not applicable.
<b>Hazardous ingredients</b>	: Sodium Hydroxide Solution 1.0N for HPCE	- sodium hydroxide
<b>Supplemental label elements</b>	: Ultra Pure Water for CE	Not applicable.
	Inorganic Anion Buffer Solution	Not applicable.
	Sodium Hydroxide Solution 1.0N for HPCE	Not applicable.
	Sodium Hydroxide Solution 0.1N for HPCE	Not applicable.
	Inorganic Anion Test Mixture	Not applicable.
<b>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles</b>	: Ultra Pure Water for CE	Not applicable.
	Inorganic Anion Buffer Solution	Not applicable.
	Sodium Hydroxide Solution 1.0N for HPCE	Not applicable.
	Sodium Hydroxide Solution 0.1N for HPCE	Not applicable.
	Inorganic Anion Test Mixture	Not applicable.
<b>Special packaging requirements</b>		
<b>Tactile warning of danger</b>	: Ultra Pure Water for CE	Not applicable.
	Inorganic Anion Buffer Solution	Not applicable.
	Sodium Hydroxide Solution 1.0N for HPCE	Not applicable.
	Sodium Hydroxide Solution 0.1N for HPCE	Not applicable.
	Inorganic Anion Test Mixture	Not applicable.

**2.3 Other hazards**

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**SECTION 2: Hazards identification**

<b>Other hazards which do not result in classification</b>	<b>:</b> Ultra Pure Water for CE	None known.
	Inorganic Anion Buffer Solution	None known.
	Sodium Hydroxide Solution 1.0N for HPCE	Causes digestive tract burns.
	Sodium Hydroxide Solution 0.1N for HPCE	None known.
	Inorganic Anion Test Mixture	None known.

**SECTION 3: Composition/information on ingredients**

<b>3.1 Substances</b>	<b>:</b> Ultra Pure Water for CE	Mono-constituent substance
	Inorganic Anion Buffer Solution	Mixture
	Sodium Hydroxide Solution 1.0N for HPCE	Mixture
	Sodium Hydroxide Solution 0.1N for HPCE	Mixture
	Inorganic Anion Test Mixture	Mixture

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Type
<b>Ultra Pure Water for CE</b> Water	REACH #: Annex IV EC: 231-791-2 CAS: 7732-18-5	100	Not classified.	[A]
<b>Sodium Hydroxide Solution 1.0N for HPCE</b> Sodium hydroxide	EC: 215-185-5 CAS: 1310-73-2 Index: 011-002-00-6	≤5	Skin Corr. 1A, H314  <b>See Section 16 for the full text of the H statements declared above.</b>	[1] [2]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy
- [A] Constituent
- [B] Impurity
- [C] Stabilising additive

**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

<b>Eye contact</b>	<b>:</b> Ultra Pure Water for CE	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.
	Inorganic Anion Buffer Solution	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.
	Sodium Hydroxide Solution 1.0N for HPCE	Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water,

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		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.
	Sodium Hydroxide Solution 0.1N for HPCE	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.
	Inorganic Anion Test Mixture	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.
<b>Inhalation</b>	: Ultra Pure Water for CE	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Inorganic Anion Buffer Solution	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Sodium Hydroxide Solution 1.0N for HPCE	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.
	Sodium Hydroxide Solution 0.1N for HPCE	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Inorganic Anion Test Mixture	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
<b>Skin contact</b>	: Ultra Pure Water for CE	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Inorganic Anion Buffer Solution	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Sodium Hydroxide Solution 1.0N for HPCE	Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of 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.
	Sodium Hydroxide Solution 0.1N for HPCE	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Inorganic Anion Test Mixture	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
<b>Ingestion</b>	: Ultra Pure Water for CE	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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.
	Inorganic Anion Buffer	Wash out mouth with water. Remove victim to fresh air and

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Solution	keep at rest in a position comfortable for breathing. 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.
Sodium Hydroxide Solution 1.0N for HPCE	Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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.
Sodium Hydroxide Solution 0.1N for HPCE	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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.
Inorganic Anion Test Mixture	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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.
<b>Protection of first-aiders</b> : Ultra Pure Water for CE	No action shall be taken involving any personal risk or without suitable training.
Inorganic Anion Buffer Solution	No action shall be taken involving any personal risk or without suitable training.
Sodium Hydroxide Solution 1.0N for HPCE	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.
Sodium Hydroxide Solution 0.1N for HPCE	No action shall be taken involving any personal risk or without suitable training.
Inorganic Anion Test Mixture	No action shall be taken involving any personal risk or without suitable training.

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

**Potential acute health effects**

<b>Eye contact</b>	: Ultra Pure Water for CE	No known significant effects or critical hazards.
	Inorganic Anion Buffer Solution	No known significant effects or critical hazards.
	Sodium Hydroxide Solution 1.0N for HPCE	Causes serious eye damage.
	Sodium Hydroxide Solution 0.1N for HPCE	No known significant effects or critical hazards.
	Inorganic Anion Test Mixture	No known significant effects or critical hazards.

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<b>Inhalation</b>	: Ultra Pure Water for CE Inorganic Anion Buffer Solution Sodium Hydroxide Solution 1.0N for HPCE Sodium Hydroxide Solution 0.1N for HPCE Inorganic Anion Test Mixture	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Skin contact</b>	: Ultra Pure Water for CE Inorganic Anion Buffer Solution Sodium Hydroxide Solution 1.0N for HPCE Sodium Hydroxide Solution 0.1N for HPCE Inorganic Anion Test Mixture	No known significant effects or critical hazards. No known significant effects or critical hazards. Causes severe burns. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Ingestion</b>	: Ultra Pure Water for CE Inorganic Anion Buffer Solution Sodium Hydroxide Solution 1.0N for HPCE Sodium Hydroxide Solution 0.1N for HPCE Inorganic Anion Test Mixture	No known significant effects or critical hazards. No known significant effects or critical hazards. Corrosive to the digestive tract. Causes burns. No known significant effects or critical hazards. No known significant effects or critical hazards.

Over-exposure signs/symptoms

<b>Eye contact</b>	: Ultra Pure Water for CE Inorganic Anion Buffer Solution Sodium Hydroxide Solution 1.0N for HPCE  Sodium Hydroxide Solution 0.1N for HPCE Inorganic Anion Test Mixture	No specific data. No specific data. Adverse symptoms may include the following:  pain watering redness No specific data. No specific data.
<b>Inhalation</b>	: Ultra Pure Water for CE Inorganic Anion Buffer Solution Sodium Hydroxide Solution 1.0N for HPCE Sodium Hydroxide Solution 0.1N for HPCE Inorganic Anion Test Mixture	No specific data. No specific data. No specific data. No specific data. No specific data.
<b>Skin contact</b>	: Ultra Pure Water for CE Inorganic Anion Buffer Solution Sodium Hydroxide Solution 1.0N for HPCE  Sodium Hydroxide Solution 0.1N for HPCE Inorganic Anion Test Mixture	No specific data. No specific data. Adverse symptoms may include the following:  pain or irritation redness blistering may occur No specific data. No specific data.



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<b>Ingestion</b>	: Ultra Pure Water for CE Inorganic Anion Buffer Solution Sodium Hydroxide Solution 1.0N for HPCE  Sodium Hydroxide Solution 0.1N for HPCE Inorganic Anion Test Mixture	No specific data. No specific data. Adverse symptoms may include the following:  stomach pains No specific data.  No specific data.
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**4.3 Indication of any immediate medical attention and special treatment needed**

<b>Notes to physician</b>	: Ultra Pure Water for CE  Inorganic Anion Buffer Solution Sodium Hydroxide Solution 1.0N for HPCE Sodium Hydroxide Solution 0.1N for HPCE Inorganic Anion Test Mixture	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
<b>Specific treatments</b>	: Ultra Pure Water for CE Inorganic Anion Buffer Solution Sodium Hydroxide Solution 1.0N for HPCE Sodium Hydroxide Solution 0.1N for HPCE Inorganic Anion Test Mixture	No specific treatment. No specific treatment.  No specific treatment.  No specific treatment.  No specific treatment.

**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

<b>Suitable extinguishing media</b>	: Ultra Pure Water for CE Inorganic Anion Buffer Solution Sodium Hydroxide Solution 1.0N for HPCE Sodium Hydroxide Solution 0.1N for HPCE Inorganic Anion Test Mixture	Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.  Use an extinguishing agent suitable for the surrounding fire.  Use an extinguishing agent suitable for the surrounding fire.  Use an extinguishing agent suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	: Ultra Pure Water for CE Inorganic Anion Buffer Solution Sodium Hydroxide Solution 1.0N for HPCE Sodium Hydroxide Solution 0.1N for HPCE Inorganic Anion Test Mixture	None known. None known.  None known.  None known.  None known.

**5.2 Special hazards arising from the substance or mixture**



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**SECTION 5: Firefighting measures**

<b>Hazards from the substance or mixture</b>	<ul style="list-style-type: none"> <li>: Ultra Pure Water for CE</li> <li>Inorganic Anion Buffer Solution</li> <li>Sodium Hydroxide Solution 1.0N for HPCE</li> <li>Sodium Hydroxide Solution 0.1N for HPCE</li> <li>Inorganic Anion Test Mixture</li> </ul>	<p>In a fire or if heated, a pressure increase will occur and the container may burst.</p> <p>In a fire or if heated, a pressure increase will occur and the container may burst.</p> <p>In a fire or if heated, a pressure increase will occur and the container may burst.</p> <p>In a fire or if heated, a pressure increase will occur and the container may burst.</p> <p>In a fire or if heated, a pressure increase will occur and the container may burst.</p>
<b>Hazardous combustion products</b>	<ul style="list-style-type: none"> <li>: Ultra Pure Water for CE</li> <li>Inorganic Anion Buffer Solution</li> <li>Sodium Hydroxide Solution 1.0N for HPCE</li>   <li>Sodium Hydroxide Solution 0.1N for HPCE</li> <li>Inorganic Anion Test Mixture</li> </ul>	<p>No specific data.</p> <p>No specific data.</p> <p>Decomposition products may include the following materials:</p> <p>metal oxide/oxides</p> <p>No specific data.</p> <p>No specific data.</p>
<b>5.3 Advice for firefighters</b>		
<b>Special precautions for fire-fighters</b>	<ul style="list-style-type: none"> <li>: Ultra Pure Water for CE</li>   <li>Inorganic Anion Buffer Solution</li>   <li>Sodium Hydroxide Solution 1.0N for HPCE</li>   <li>Sodium Hydroxide Solution 0.1N for HPCE</li>   <li>Inorganic Anion Test Mixture</li> </ul>	<p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>
<b>Special protective equipment for fire-fighters</b>	<ul style="list-style-type: none"> <li>: Ultra Pure Water for CE</li>   <li>Inorganic Anion Buffer Solution</li>   <li>Sodium Hydroxide Solution 1.0N for HPCE</li>   <li>Sodium Hydroxide Solution 0.1N for HPCE</li> </ul>	<p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>

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Inorganic Anion Test Mixture	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.
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**SECTION 6: Accidental release measures**

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

<b>For non-emergency personnel</b>	: Ultra Pure Water for CE	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.
	Inorganic Anion Buffer Solution	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.
	Sodium Hydroxide Solution 1.0N for HPCE	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.
	Sodium Hydroxide Solution 0.1N for HPCE	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.
	Inorganic Anion Test Mixture	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.
<b>For emergency responders</b>	: Ultra Pure Water for CE	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 "For non-emergency personnel".
	Inorganic Anion Buffer Solution	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 "For non-emergency personnel".
	Sodium Hydroxide Solution 1.0N for HPCE	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 "For non-emergency personnel".
	Sodium Hydroxide Solution 0.1N for HPCE	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 "For non-emergency personnel".
	Inorganic Anion Test Mixture	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 "For non-emergency personnel".

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**SECTION 6: Accidental release measures**

<b>6.2 Environmental precautions</b>	: Ultra Pure Water for CE	Avoid dispersal of spilt 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).
	Inorganic Anion Buffer Solution	Avoid dispersal of spilt 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).
	Sodium Hydroxide Solution 1.0N for HPCE	Avoid dispersal of spilt 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).
	Sodium Hydroxide Solution 0.1N for HPCE	Avoid dispersal of spilt 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).
	Inorganic Anion Test Mixture	Avoid dispersal of spilt 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).

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

<b>Methods for cleaning up</b>	: Ultra Pure Water for CE	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.
	Inorganic Anion Buffer Solution	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.
	Sodium Hydroxide Solution 1.0N for HPCE	Stop leak if without risk. Move containers from spill area. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Absorb spillage to prevent material damage. Dispose of via a licensed waste disposal contractor.
	Sodium Hydroxide Solution 0.1N for HPCE	Stop leak if without risk. Move containers from spill area. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor.
	Inorganic Anion Test Mixture	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.

**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.

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**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

<b>Protective measures</b>	: Ultra Pure Water for CE	Put on appropriate personal protective equipment (see Section 8).
	Inorganic Anion Buffer Solution	Put on appropriate personal protective equipment (see Section 8).
	Sodium Hydroxide Solution 1.0N for HPCE	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 acids. Empty containers retain product residue and can be hazardous. Do not reuse container. Absorb spillage to prevent material damage.
	Sodium Hydroxide Solution 0.1N for HPCE	Put on appropriate personal protective equipment (see Section 8). Keep away from acids.
	Inorganic Anion Test Mixture	Put on appropriate personal protective equipment (see Section 8).
<b>Advice on general occupational hygiene</b>	: Ultra Pure Water for CE	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.
	Inorganic Anion Buffer Solution	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.
	Sodium Hydroxide Solution 1.0N for HPCE	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.
	Sodium Hydroxide Solution 0.1N for HPCE	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.
	Inorganic Anion Test Mixture	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.

**7.2 Conditions for safe storage, including any incompatibilities**

<b>Storage</b>	: Ultra Pure Water for CE	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
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**Inorganic Anion Analysis Kit**

**SECTION 7: Handling and storage**

Inorganic Anion Buffer Solution	before handling or use. Storage temperature: 4°C (39.2°F). 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.
Sodium Hydroxide Solution 1.0N for HPCE	Store between the following temperatures: 15 to 25°C (59 to 77°F). 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 acids. 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.
Sodium Hydroxide Solution 0.1N for HPCE	Store between the following temperatures: 15 to 25°C (59 to 77°F). 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 acids. 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.
Inorganic Anion Test Mixture	Storage temperature: 4°C (39.2°F). 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.

**7.3 Specific end use(s)**

**Recommendations**

- : Ultra Pure Water for CE      Industrial applications, Professional applications.
- Inorganic Anion Buffer Solution      Industrial applications, Professional applications.
- Sodium Hydroxide Solution 1.0N for HPCE      Industrial applications, Professional applications.
- Sodium Hydroxide Solution 0.1N for HPCE      Industrial applications, Professional applications.
- Inorganic Anion Test Mixture      Industrial applications, Professional applications.



**Inorganic Anion Analysis Kit**

**SECTION 7: Handling and storage**

<b>Industrial sector specific solutions</b>	<b>Ultra Pure Water for CE</b>	Not applicable.
	<b>Inorganic Anion Buffer Solution</b>	Not applicable.
	<b>Sodium Hydroxide Solution 1.0N for HPCE</b>	Not applicable.
	<b>Sodium Hydroxide Solution 0.1N for HPCE</b>	Not applicable.
	<b>Inorganic Anion Test Mixture</b>	Not applicable.

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

**8.1 Control parameters**

Occupational exposure limits

Product/ingredient name	Exposure limit values
<b>Sodium Hydroxide Solution 1.0N for HPCE</b> Sodium hydroxide	<b>EH40/2005 WELs (United Kingdom (UK), 12/2011).</b> STEL: 2 mg/m <sup>3</sup> 15 minutes.

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. 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

**Inorganic Anion Analysis Kit**

**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**

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

**Appearance**

- Physical state** : Ultra Pure Water for CE Liquid.  
Inorganic Anion Buffer Solution Liquid.  
Sodium Hydroxide Solution 1.0N for HPCE Liquid. [Clear.]  
Sodium Hydroxide Solution 0.1N for HPCE Liquid. [Clear.]  
Inorganic Anion Test Mixture Liquid.
- Colour** : Ultra Pure Water for CE Clear. Colourless.  
Inorganic Anion Buffer Solution Colourless.  
Sodium Hydroxide Solution 1.0N for HPCE Colourless.  
Sodium Hydroxide Solution 0.1N for HPCE Colourless.  
Inorganic Anion Test Mixture Clear. Colourless.
- Odour** : Ultra Pure Water for CE Odourless.  
Inorganic Anion Buffer Solution Odourless.  
Sodium Hydroxide Solution 1.0N for HPCE Not available.  
Sodium Hydroxide Solution 0.1N for HPCE Not available.  
Inorganic Anion Test Mixture Not available.



**Inorganic Anion Analysis Kit**

**SECTION 9: Physical and chemical properties**

<b>Odour threshold</b>	:	Ultra Pure Water for CE	Not available.
		Inorganic Anion Buffer Solution	Not available.
		Sodium Hydroxide Solution 1.0N for HPCE	Not available.
		Sodium Hydroxide Solution 0.1N for HPCE	Not available.
		Inorganic Anion Test Mixture	Not available.
<b>pH</b>	:	Ultra Pure Water for CE	7
		Inorganic Anion Buffer Solution	7.7
		Sodium Hydroxide Solution 1.0N for HPCE	>11.5
		Sodium Hydroxide Solution 0.1N for HPCE	13
		Inorganic Anion Test Mixture	Not available.
<b>Melting point/freezing point</b>	:	Ultra Pure Water for CE	0°C
		Inorganic Anion Buffer Solution	0°C
		Sodium Hydroxide Solution 1.0N for HPCE	0°C
		Sodium Hydroxide Solution 0.1N for HPCE	0°C
		Inorganic Anion Test Mixture	0°C
<b>Initial boiling point and boiling range</b>	:	Ultra Pure Water for CE	100°C
		Inorganic Anion Buffer Solution	100°C
		Sodium Hydroxide Solution 1.0N for HPCE	100°C
		Sodium Hydroxide Solution 0.1N for HPCE	100°C
		Inorganic Anion Test Mixture	100°C
<b>Flash point</b>	:	Ultra Pure Water for CE	Not applicable.
		Inorganic Anion Buffer Solution	Not available.
		Sodium Hydroxide Solution 1.0N for HPCE	Not available.
		Sodium Hydroxide Solution 0.1N for HPCE	Not available.
		Inorganic Anion Test Mixture	Not available.
<b>Evaporation rate</b>	:	Ultra Pure Water for CE	Not available.
		Inorganic Anion Buffer Solution	<1 (butyl acetate = 1)
		Sodium Hydroxide Solution 1.0N for HPCE	Not available.
		Sodium Hydroxide Solution 0.1N for HPCE	Not available.
		Inorganic Anion Test Mixture	<1 (butyl acetate = 1)

**Inorganic Anion Analysis Kit**

**SECTION 9: Physical and chemical properties**

<b>Flammability (solid, gas)</b>	: Ultra Pure Water for CE Inorganic Anion Buffer Solution Sodium Hydroxide Solution 1.0N for HPCE Sodium Hydroxide Solution 0.1N for HPCE Inorganic Anion Test Mixture	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
<b>Upper/lower flammability or explosive limits</b>	: Ultra Pure Water for CE Inorganic Anion Buffer Solution Sodium Hydroxide Solution 1.0N for HPCE Sodium Hydroxide Solution 0.1N for HPCE Inorganic Anion Test Mixture	Not available. Not available. Not available. Not available. Not available.
<b>Vapour pressure</b>	: Ultra Pure Water for CE Inorganic Anion Buffer Solution Sodium Hydroxide Solution 1.0N for HPCE Sodium Hydroxide Solution 0.1N for HPCE Inorganic Anion Test Mixture	3.2 kPa [room temperature] Not available. <2.4 kPa [room temperature] <2.4 kPa [room temperature] Not available.
<b>Vapour density</b>	: Ultra Pure Water for CE Inorganic Anion Buffer Solution Sodium Hydroxide Solution 1.0N for HPCE Sodium Hydroxide Solution 0.1N for HPCE Inorganic Anion Test Mixture	0.62 [Air = 1] >1 [Air = 1] <1 [Air = 1] <1 [Air = 1] Not available.
<b>Relative density</b>	: Ultra Pure Water for CE Inorganic Anion Buffer Solution Sodium Hydroxide Solution 1.0N for HPCE Sodium Hydroxide Solution 0.1N for HPCE Inorganic Anion Test Mixture	1 Not available. Not available. Not available. Not available.
<b>Solubility(ies)</b>	: Ultra Pure Water for CE Inorganic Anion Buffer Solution Sodium Hydroxide Solution 1.0N for HPCE Sodium Hydroxide Solution 0.1N for HPCE Inorganic Anion Test Mixture	Easily soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water and hot water.

**Inorganic Anion Analysis Kit**

**SECTION 9: Physical and chemical properties**

<b>Partition coefficient: n-octanol/water</b>	:	Ultra Pure Water for CE	-1.38
		Inorganic Anion Buffer Solution	Not available.
		Sodium Hydroxide Solution 1.0N for HPCE	Not available.
		Sodium Hydroxide Solution 0.1N for HPCE	Not available.
		Inorganic Anion Test Mixture	Not available.
<b>Auto-ignition temperature</b>	:	Ultra Pure Water for CE	Not applicable.
		Inorganic Anion Buffer Solution	Not available.
		Sodium Hydroxide Solution 1.0N for HPCE	Not available.
		Sodium Hydroxide Solution 0.1N for HPCE	Not available.
		Inorganic Anion Test Mixture	Not available.
<b>Decomposition temperature</b>	:	Ultra Pure Water for CE	Not available.
		Inorganic Anion Buffer Solution	Not available.
		Sodium Hydroxide Solution 1.0N for HPCE	Not available.
		Sodium Hydroxide Solution 0.1N for HPCE	Not available.
		Inorganic Anion Test Mixture	Not available.
<b>Viscosity</b>	:	Ultra Pure Water for CE	Not available.
		Inorganic Anion Buffer Solution	Not available.
		Sodium Hydroxide Solution 1.0N for HPCE	Not available.
		Sodium Hydroxide Solution 0.1N for HPCE	Not available.
		Inorganic Anion Test Mixture	Not available.
<b>Explosive properties</b>	:	Ultra Pure Water for CE	Not available.
		Inorganic Anion Buffer Solution	Not available.
		Sodium Hydroxide Solution 1.0N for HPCE	Not available.
		Sodium Hydroxide Solution 0.1N for HPCE	Not available.
		Inorganic Anion Test Mixture	Not available.
<b>Oxidising properties</b>	:	Ultra Pure Water for CE	Not applicable.
		Inorganic Anion Buffer Solution	Not available.
		Sodium Hydroxide Solution 1.0N for HPCE	Not available.
		Sodium Hydroxide Solution 0.1N for HPCE	Not available.
		Inorganic Anion Test Mixture	Not available.

**9.2 Other information**

No additional information.

**Inorganic Anion Analysis Kit**

**SECTION 10: Stability and reactivity**

<b>10.1 Reactivity</b>	: Ultra Pure Water for CE Inorganic Anion Buffer Solution Sodium Hydroxide Solution 1.0N for HPCE Sodium Hydroxide Solution 0.1N for HPCE Inorganic Anion Test Mixture	No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients.
<b>10.2 Chemical stability</b>	: Ultra Pure Water for CE Inorganic Anion Buffer Solution Sodium Hydroxide Solution 1.0N for HPCE Sodium Hydroxide Solution 0.1N for HPCE Inorganic Anion Test Mixture	The product is stable. The product is stable. The product is stable. The product is stable. The product is stable.
<b>10.3 Possibility of hazardous reactions</b>	: Ultra Pure Water for CE Inorganic Anion Buffer Solution Sodium Hydroxide Solution 1.0N for HPCE Sodium Hydroxide Solution 0.1N for HPCE Inorganic Anion Test Mixture	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
<b>10.4 Conditions to avoid</b>	: Ultra Pure Water for CE Inorganic Anion Buffer Solution Sodium Hydroxide Solution 1.0N for HPCE Sodium Hydroxide Solution 0.1N for HPCE Inorganic Anion Test Mixture	No specific data. No specific data. No specific data. No specific data. No specific data.
<b>10.5 Incompatible materials</b>	: Ultra Pure Water for CE Inorganic Anion Buffer Solution Sodium Hydroxide Solution 1.0N for HPCE Sodium Hydroxide Solution 0.1N for HPCE Inorganic Anion Test Mixture	May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. Reactive or incompatible with the following materials: acids metals metals Reactive or incompatible with the following materials: acids metals May react or be incompatible with oxidising materials.

**Inorganic Anion Analysis Kit**

**SECTION 10: Stability and reactivity**

<b>10.6 Hazardous decomposition products</b>	: Ultra Pure Water for CE Inorganic Anion Buffer Solution Sodium Hydroxide Solution 1.0N for HPCE Sodium Hydroxide Solution 0.1N for HPCE Inorganic Anion Test Mixture	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced.
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**SECTION 11: Toxicological information**

**11.1 Information on toxicological effects**

Acute toxicity

Not available.

Acute toxicity estimates

Route	ATE value
Inorganic Anion Test Mixture Oral	45945.9 mg/kg

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
<b>Sodium Hydroxide Solution 1.0N for HPCE</b> Sodium hydroxide	Eyes - Severe irritant	Rabbit	-	24 hours 50 Micrograms	-
	Eyes - Severe irritant	Rabbit	-	1 Percent	-
	Eyes - Severe irritant	Rabbit	-	0.5 minutes 1 milligrams	-
	Skin - Severe irritant	Rabbit	-	24 hours 500 milligrams	-

Sensitiser

**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**

: Ultra Pure Water for CE Inorganic Anion Buffer Solution Sodium Hydroxide Solution 1.0N for HPCE Sodium Hydroxide Solution 0.1N for HPCE Inorganic Anion Test Mixture	Not available. Not available. Routes of entry anticipated: Oral, Dermal, Inhalation. Routes of entry anticipated: Oral, Dermal, Inhalation. Routes of entry anticipated: Oral, Dermal, Inhalation.
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Potential acute health effects

**Inorganic Anion Analysis Kit**

**SECTION 11: Toxicological information**

<b>Inhalation</b>	: Ultra Pure Water for CE Inorganic Anion Buffer Solution Sodium Hydroxide Solution 1.0N for HPCE Sodium Hydroxide Solution 0.1N for HPCE Inorganic Anion Test Mixture	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Ingestion</b>	: Ultra Pure Water for CE Inorganic Anion Buffer Solution Sodium Hydroxide Solution 1.0N for HPCE Sodium Hydroxide Solution 0.1N for HPCE Inorganic Anion Test Mixture	No known significant effects or critical hazards. No known significant effects or critical hazards. Corrosive to the digestive tract. Causes burns. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Skin contact</b>	: Ultra Pure Water for CE Inorganic Anion Buffer Solution Sodium Hydroxide Solution 1.0N for HPCE Sodium Hydroxide Solution 0.1N for HPCE Inorganic Anion Test Mixture	No known significant effects or critical hazards. No known significant effects or critical hazards. Causes severe burns. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Eye contact</b>	: Ultra Pure Water for CE Inorganic Anion Buffer Solution Sodium Hydroxide Solution 1.0N for HPCE Sodium Hydroxide Solution 0.1N for HPCE Inorganic Anion Test Mixture	No known significant effects or critical hazards. No known significant effects or critical hazards. Causes serious eye damage. No known significant effects or critical hazards. No known significant effects or critical hazards.

**Symptoms related to the physical, chemical and toxicological characteristics**

<b>Inhalation</b>	: Ultra Pure Water for CE Inorganic Anion Buffer Solution Sodium Hydroxide Solution 1.0N for HPCE Sodium Hydroxide Solution 0.1N for HPCE Inorganic Anion Test Mixture	No specific data. No specific data. No specific data. No specific data. No specific data.
<b>Ingestion</b>	: Ultra Pure Water for CE Inorganic Anion Buffer Solution Sodium Hydroxide Solution 1.0N for HPCE  Sodium Hydroxide Solution 0.1N for HPCE Inorganic Anion Test Mixture	No specific data. No specific data. Adverse symptoms may include the following:  stomach pains No specific data. No specific data.

**Inorganic Anion Analysis Kit**

**SECTION 11: Toxicological information**

<b>Skin contact</b>	: Ultra Pure Water for CE	No specific data.
	Inorganic Anion Buffer Solution	No specific data.
	Sodium Hydroxide Solution 1.0N for HPCE	Adverse symptoms may include the following: pain or irritation redness blistering may occur
	Sodium Hydroxide Solution 0.1N for HPCE	No specific data.
<b>Eye contact</b>	: Ultra Pure Water for CE	No specific data.
	Inorganic Anion Buffer Solution	No specific data.
	Sodium Hydroxide Solution 1.0N for HPCE	Adverse symptoms may include the following: pain watering redness
	Sodium Hydroxide Solution 0.1N for HPCE	No specific data.
	Inorganic Anion Test Mixture	No specific data.

**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.

**Potential delayed effects** : Not available.

**Potential chronic health effects**

<b>General</b>	: Ultra Pure Water for CE	No known significant effects or critical hazards.
	Inorganic Anion Buffer Solution	No known significant effects or critical hazards.
	Sodium Hydroxide Solution 1.0N for HPCE	No known significant effects or critical hazards.
	Sodium Hydroxide Solution 0.1N for HPCE	No known significant effects or critical hazards.
	Inorganic Anion Test Mixture	No known significant effects or critical hazards.
<b>Carcinogenicity</b>	: Ultra Pure Water for CE	No known significant effects or critical hazards.
	Inorganic Anion Buffer Solution	No known significant effects or critical hazards.
	Sodium Hydroxide Solution 1.0N for HPCE	No known significant effects or critical hazards.
	Sodium Hydroxide Solution 0.1N for HPCE	No known significant effects or critical hazards.
	Inorganic Anion Test Mixture	No known significant effects or critical hazards.



**Inorganic Anion Analysis Kit**

**SECTION 11: Toxicological information**

<b>Mutagenicity</b>	: Ultra Pure Water for CE Inorganic Anion Buffer Solution Sodium Hydroxide Solution 1.0N for HPCE Sodium Hydroxide Solution 0.1N for HPCE Inorganic Anion Test Mixture	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Teratogenicity</b>	: Ultra Pure Water for CE Inorganic Anion Buffer Solution Sodium Hydroxide Solution 1.0N for HPCE Sodium Hydroxide Solution 0.1N for HPCE Inorganic Anion Test Mixture	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Developmental effects</b>	: Ultra Pure Water for CE Inorganic Anion Buffer Solution Sodium Hydroxide Solution 1.0N for HPCE Sodium Hydroxide Solution 0.1N for HPCE Inorganic Anion Test Mixture	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Fertility effects</b>	: Ultra Pure Water for CE Inorganic Anion Buffer Solution Sodium Hydroxide Solution 1.0N for HPCE Sodium Hydroxide Solution 0.1N for HPCE Inorganic Anion Test Mixture	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

**SECTION 12: Ecological information**

**12.1 Toxicity**

Product/ingredient name	Result	Species	Exposure
Sodium Hydroxide Solution 1.0N for HPCE Sodium hydroxide	Acute LC50 125 ppm Fresh water	Fish - Gambusia affinis - Adult	96 hours

**12.2 Persistence and degradability**

Product/ingredient name	Test	Result	Dose	Inoculum
Ultra Pure Water for CE Water	-	100 % - 28 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Ultra Pure Water for CE Water	-	-	Readily
Sodium Hydroxide Solution 1.0N for HPCE Sodium hydroxide	-	-	Readily

**Inorganic Anion Analysis Kit**

**SECTION 12: Ecological information**

**12.3 Bioaccumulative potential**

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
Ultra Pure Water for CE Water	-1.38	-	low

**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**

PBT : Not applicable.

vPvB : Not applicable.

**12.6 Other adverse effects** : No known significant effects or critical hazards.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

Product

**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.

Packaging

**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 spilled material and runoff and contact with soil, waterways, drains and sewers.

**SECTION 14: Transport information**

	ADR/RID	IMDG	IATA
<b>14.1 UN number</b>	UN3316	UN3316	UN3316
<b>14.2 UN proper shipping name</b>	CHEMICAL KIT	CHEMICAL KIT	Chemical kit
<b>14.3 Transport hazard class(es)</b>	9 	9 	9 
<b>14.4 Packing group</b>	III	II	II

**Inorganic Anion Analysis Kit**

**SECTION 14: Transport information**

<b>14.5 Environmental hazards</b>	No.	No.	No.
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**Additional information**

- ADR/RID** : **Hazard identification number** 90  
**Limited quantity** See SP 251  
**Special provisions** 251, 340  
**Tunnel code** (E)
- IMDG** : **Emergency schedules** F-A, \_S-P\_  
**Special provisions** 251, 340
- IATA** : **Quantity limitation** Passenger and Cargo Aircraft: 10 kg. Packaging instructions: 960. Cargo Aircraft Only: 10 kg. Packaging instructions: 960. Limited Quantities - Passenger Aircraft: 1 kg. Packaging instructions: Y960.  
**Special provisions** A44, A163  
**Remarks** Requires Shipper's Declaration of Dangerous Goods

**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 Annex II of Marpol and the IBC Code** : 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.

- Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** :
- |   |                 |
|---|-----------------|
| Ultra Pure Water for CE                 | Not applicable. |
| Inorganic Anion Buffer Solution         | Not applicable. |
| Sodium Hydroxide Solution 1.0N for HPCE | Not applicable. |
| Sodium Hydroxide Solution 0.1N for HPCE | Not applicable. |
| Inorganic Anion Test Mixture            | Not applicable. |

**Other EU regulations**

**Ozone depleting substances (1005/2009/EU)**

Not listed.

**Prior Informed Consent (PIC) (649/2012/EU)**

Not listed.

**Seveso Directive**

This product is not controlled under the Seveso Directive.

**International regulations**

**Chemical Weapon Convention List Schedules I, II & III Chemicals**

Not listed.

**Montreal Protocol (Annexes A, B, C, E)**

**Date of issue/Date of revision** : 01/08/2017

**Inorganic Anion Analysis Kit**

**SECTION 15: Regulatory information**

Not listed.

[Stockholm Convention on Persistent Organic Pollutants](#)

Not listed.

[Rotterdam Convention on Prior Informed Consent \(PIC\)](#)

Not listed.

[UNECE Aarhus Protocol on POPs and Heavy Metals](#)

Not listed.

[Inventory list](#)

<b>Australia</b>	: Not determined.
<b>Canada</b>	: Not determined.
<b>China</b>	: Not determined.
<b>Europe</b>	: Not determined.
<b>Japan</b>	: <b>Japan inventory (ENCS):</b> Not determined. <b>Japan inventory (ISHL):</b> Not determined.
<b>Malaysia</b>	: Not determined.
<b>New Zealand</b>	: Not determined.
<b>Philippines</b>	: Not determined.
<b>Republic of Korea</b>	: Not determined.
<b>Taiwan</b>	: Not determined.
<b>Thailand</b>	: Not determined.
<b>Turkey</b>	: Not determined.
<b>United States</b>	: Not determined.
<b>Viet Nam</b>	: Not determined.

**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 \[CLP/GHS\]](#)

Classification	Justification
<b>Sodium Hydroxide Solution 1.0N for HPCE</b> Met. Corr. 1, H290 Skin Corr. 1B, H314	Expert judgment Expert judgment

[Full text of abbreviated H statements](#)

<b>Sodium Hydroxide Solution 1.0N for HPCE</b> H290 H314	May be corrosive to metals. Causes severe skin burns and eye damage.
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[Full text of classifications \[CLP/GHS\]](#)

*Inorganic Anion Analysis Kit*

**SECTION 16: Other information**

**Sodium Hydroxide Solution 1.0N for HPCE**

Met. Corr. 1, H290  
Skin Corr. 1A, H314  
Skin Corr. 1B, H314

CORROSIVE TO METALS - Category 1  
SKIN CORROSION/IRRITATION - Category 1A  
SKIN CORROSION/IRRITATION - Category 1B

**Date of issue/ Date of revision** : 01/08/2017

**Date of previous issue** : No previous validation.

**Version** : 1

Notice to reader

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