

# SAFETY DATA SHEET



Forensic Anion Solutions Kit for CE, Part Number 5064-8208

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

### 1.1 Product identifier

**Product name** : Forensic Anion Solutions Kit for CE, Part Number 5064-8208  
**Part no. (chemical kit)** : 5064-8208  
**Part no.** :  Ultra Pure Water for CE 5062-8578  
Basic Anion Buffer for CE 5064-8209  
Inorganic Anion Test Mixture 5062-8524

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

**Material uses** :  Reagents and Standards for Analytical Chemistry Laboratory Use  
The following articles are also contained in this kit: G1600-64211, 5181-8836, 12-5968-3903E. (No SDS necessary)  
 Ultra Pure Water for CE 500 ml  
Basic Anion Buffer for CE 5 x 50 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

**Product definition** :  Ultra Pure Water for CE Mono-constituent substance  
Basic Anion Buffer for CE Mixture  
Inorganic Anion Test Mixture Mixture

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

#### Inorganic Anion Test Mixture

H400 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1


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

**Date of issue/Date of revision** : 01/03/2018

## SECTION 2: Hazards identification

<b>Hazard pictograms</b>	: Inorganic Anion Test Mixture	
<b>Signal word</b>	: Ultra Pure Water for CE Basic Anion Buffer for CE Inorganic Anion Test Mixture	No signal word. No signal word. Warning
<b>Hazard statements</b>	: Ultra Pure Water for CE Basic Anion Buffer for CE Inorganic Anion Test Mixture	No known significant effects or critical hazards. No known significant effects or critical hazards. H400 - Very toxic to aquatic life.
<b><u>Precautionary statements</u></b>		
<b>Prevention</b>	: Ultra Pure Water for CE Basic Anion Buffer for CE Inorganic Anion Test Mixture	Not applicable. Not applicable. P273 - Avoid release to the environment.
<b>Response</b>	: Ultra Pure Water for CE Basic Anion Buffer for CE Inorganic Anion Test Mixture	Not applicable. Not applicable. P391 - Collect spillage.
<b>Storage</b>	: Ultra Pure Water for CE Basic Anion Buffer for CE Inorganic Anion Test Mixture	Not applicable. Not applicable. Not applicable.
<b>Disposal</b>	: Ultra Pure Water for CE Basic Anion Buffer for CE Inorganic Anion Test Mixture	Not applicable. Not applicable. P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
<b>Hazardous ingredients</b>	: Inorganic Anion Test Mixture	Not applicable.
<b>Supplemental label elements</b>	: Ultra Pure Water for CE Basic Anion Buffer for CE Inorganic Anion Test Mixture	Not applicable. Not applicable. 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 Basic Anion Buffer for CE Inorganic Anion Test Mixture	Not applicable. Not applicable. Not applicable.
<b><u>Special packaging requirements</u></b>		
<b>Tactile warning of danger</b>	: Ultra Pure Water for CE Basic Anion Buffer for CE Inorganic Anion Test Mixture	Not applicable. Not applicable. Not applicable.
<b>2.3 Other hazards</b>		
<b>Other hazards which do not result in classification</b>	: Ultra Pure Water for CE Basic Anion Buffer for CE Inorganic Anion Test Mixture	None known. None known. None known.

## SECTION 3: Composition/information on ingredients

**3.1 Substances** :  Ultra Pure Water for CE Mono-constituent substance  
 Basic Anion Buffer for CE Mixture  
 Inorganic Anion Test Mixture Mixture

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Type
<input checked="" type="checkbox"/> Ultra Pure Water for CE Water	REACH #: Annex IV EC: 231-791-2 CAS: 7732-18-5	100	Not classified.	[A]
<b>Inorganic Anion Test Mixture</b> Sodium fluoride	EC: 231-667-8 CAS: 7681-49-4 Index: 009-004-00-7	≤0.3	Acute Tox. 3, H301 Skin Irrit. 2, H315 Eye Irrit. 2, H319 EUH032	[1] [2]
Sodium nitrite	EC: 231-555-9 CAS: 7632-00-0 Index: 007-010-00-4	≤0.3	Ox. Sol. 3, H272 Acute Tox. 3, H301 Aquatic Acute 1, H400 (M=1000)  <b>See Section 16 for the full text of the H statements declared above.</b>	[1]

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
- [\*] Substance [A] Constituent [B] Impurity [C] Stabilising additive

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

**Eye contact** :  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.  
 Basic Anion Buffer 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 Test Mixture 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 if irritation occurs.

**Inhalation** :  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.  
 Basic Anion Buffer 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 Test Mixture 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 effects persist or are severe. If unconscious, place in

## SECTION 4: First aid measures

		recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
<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.
	Basic Anion Buffer for CE	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. Wash clothing before reuse. Clean shoes thoroughly before reuse.
<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.
	Basic Anion Buffer 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 Test Mixture	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. 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.
<b>Protection of first-aiders</b>	: Ultra Pure Water for CE	No action shall be taken involving any personal risk or without suitable training.
	Basic Anion Buffer for CE	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. 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

<b>Eye contact</b>	: Ultra Pure Water for CE	No known significant effects or critical hazards.
	Basic Anion Buffer for CE	No known significant effects or critical hazards.
	Inorganic Anion Test Mixture	No known significant effects or critical hazards.
<b>Inhalation</b>	: Ultra Pure Water for CE	No known significant effects or critical hazards.
	Basic Anion Buffer for CE	No known significant effects or critical hazards.
	Inorganic Anion Test Mixture	No known significant effects or critical hazards.

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**SECTION 4: First aid measures**

**Skin contact** : Ultra Pure Water for CE No known significant effects or critical hazards.  
 Basic Anion Buffer for CE No known significant effects or critical hazards.  
 Inorganic Anion Test Mixture No known significant effects or critical hazards.

**Ingestion** : Ultra Pure Water for CE No known significant effects or critical hazards.  
 Basic Anion Buffer for CE No known significant effects or critical hazards.  
 Inorganic Anion Test Mixture No known significant effects or critical hazards.

Over-exposure signs/symptoms

**Eye contact** : Ultra Pure Water for CE No specific data.  
 Basic Anion Buffer for CE No specific data.  
 Inorganic Anion Test Mixture No specific data.

**Inhalation** : Ultra Pure Water for CE No specific data.  
 Basic Anion Buffer for CE No specific data.  
 Inorganic Anion Test Mixture No specific data.

**Skin contact** : Ultra Pure Water for CE No specific data.  
 Basic Anion Buffer for CE No specific data.  
 Inorganic Anion Test Mixture No specific data.

**Ingestion** : Ultra Pure Water for CE No specific data.  
 Basic Anion Buffer for CE No specific data.  
 Inorganic Anion Test Mixture No specific data.

**4.3 Indication of any immediate medical attention and special treatment needed**

**Notes to physician** : Ultra Pure Water for CE Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.  
 Basic Anion Buffer for CE Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.  
 Inorganic Anion Test Mixture Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments** : Ultra Pure Water for CE No specific treatment.  
 Basic Anion Buffer for CE No specific treatment.  
 Inorganic Anion Test Mixture No specific treatment.

**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

**Suitable extinguishing media** : Ultra Pure Water for CE Use an extinguishing agent suitable for the surrounding fire.  
 Basic Anion Buffer for CE Use an extinguishing agent suitable for the surrounding fire.  
 Inorganic Anion Test Mixture Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media** : Ultra Pure Water for CE None known.  
 Basic Anion Buffer for CE None known.  
 Inorganic Anion Test Mixture None known.

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

## SECTION 5: Firefighting measures

<b>Hazards from the substance or mixture</b>	: Ultra Pure Water for CE	In a fire or if heated, a pressure increase will occur and the container may burst.
	Basic Anion Buffer for CE	In a fire or if heated, a pressure increase will occur and the container may burst.
	Inorganic Anion Test Mixture	In a fire or if heated, a pressure increase will occur and the container may burst. This material is very toxic to aquatic life. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
<b>Hazardous combustion products</b>	: Ultra Pure Water for CE	No specific data.
	Basic Anion Buffer for CE	No specific data.
	Inorganic Anion Test Mixture	No specific data.

### 5.3 Advice for firefighters

<b>Special precautions for fire-fighters</b>	: Ultra Pure Water for CE	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.
	Basic Anion Buffer for CE	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.
	Inorganic Anion Test Mixture	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.
<b>Special protective equipment for fire-fighters</b>	: Ultra Pure Water for CE	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.
	Basic Anion Buffer for CE	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.
	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.

## 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.
	Basic Anion Buffer 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 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. Avoid breathing

## SECTION 6: Accidental release measures

		vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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".
	Basic Anion Buffer 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 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".
<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).
	Basic Anion Buffer 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 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). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
<b>6.3 Methods and material for containment and cleaning up</b>		
<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.
	Basic Anion Buffer for CE	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.
<b>6.4 Reference to other sections</b>	: 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

<b>Protective measures</b>	:	Ultra Pure Water for CE	Put on appropriate personal protective equipment (see Section 8).
		Basic Anion Buffer for CE	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). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
<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.
		Basic Anion Buffer 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 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 before handling or use.
		Basic Anion Buffer 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. 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



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not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
Inorganic Anion Test Mixture E1	100	200

### 7.3 Specific end use(s)

- Recommendations** :
- Ultra Pure Water for CE Industrial applications, Professional applications.
  - Basic Anion Buffer for CE Industrial applications, Professional applications.
  - Inorganic Anion Test Mixture Industrial applications, Professional applications.
- Industrial sector specific solutions** :
- Ultra Pure Water for CE Not applicable.
  - Basic Anion Buffer for CE Not applicable.
  - Inorganic Anion Test Mixture Not applicable.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

Product/ingredient name	Exposure limit values
Inorganic Anion Test Mixture Sodium fluoride	EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 2.5 mg/m <sup>3</sup> , (as F) 8 hours.

- 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.

## SECTION 8: Exposure controls/personal protection

- 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: safety glasses with side-shields.
- Skin 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

<b>Physical state</b>	: Ultra Pure Water for CE	Liquid.
	Basic Anion Buffer for CE	Liquid.
	Inorganic Anion Test Mixture	Liquid.
<b>Colour</b>	: Ultra Pure Water for CE	Clear. / Colourless.
	Basic Anion Buffer for CE	Not available.
	Inorganic Anion Test Mixture	Clear. / Colourless.
<b>Odour</b>	: Ultra Pure Water for CE	Odourless.
	Basic Anion Buffer for CE	Odourless.
	Inorganic Anion Test Mixture	Not available.
<b>Odour threshold</b>	: Ultra Pure Water for CE	Not available.
	Basic Anion Buffer for CE	Not available.
	Inorganic Anion Test Mixture	Not available.
<b>pH</b>	: Ultra Pure Water for CE	7
	Basic Anion Buffer for CE	12.1
	Inorganic Anion Test Mixture	Not available.

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<b>Melting point/freezing point</b>	: Ultra Pure Water for CE 0°C Basic Anion Buffer for CE 0°C Inorganic Anion Test Mixture 0°C
<b>Initial boiling point and boiling range</b>	: Ultra Pure Water for CE 100°C Basic Anion Buffer for CE 100°C Inorganic Anion Test Mixture 100°C
<b>Flash point</b>	: Ultra Pure Water for CE Not applicable. Basic Anion Buffer for CE Not available. Inorganic Anion Test Mixture Not available.
<b>Evaporation rate</b>	: Ultra Pure Water for CE Not available. Basic Anion Buffer for CE <1 (butyl acetate = 1) Inorganic Anion Test Mixture <1 (butyl acetate = 1)
<b>Flammability (solid, gas)</b>	: Ultra Pure Water for CE Not applicable. Basic Anion Buffer for CE Not applicable. Inorganic Anion Test Mixture Not applicable.
<b>Upper/lower flammability or explosive limits</b>	: Ultra Pure Water for CE Not available. Basic Anion Buffer for CE Not available. Inorganic Anion Test Mixture Not available.
<b>Vapour pressure</b>	: Ultra Pure Water for CE 3.2 kPa [room temperature] Basic Anion Buffer for CE Not available. Inorganic Anion Test Mixture Not available.
<b>Vapour density</b>	: Ultra Pure Water for CE 0.62 [Air = 1] Basic Anion Buffer for CE <1 [Air = 1] Inorganic Anion Test Mixture Not available.
<b>Relative density</b>	: Ultra Pure Water for CE 1 Basic Anion Buffer for CE >1 [Water = 1] Inorganic Anion Test Mixture Not available.
<b>Solubility(ies)</b>	: Ultra Pure Water for CE Easily soluble in the following materials: cold water and hot water. Basic Anion Buffer for CE Easily soluble in the following materials: cold water and hot water. Inorganic Anion Test Mixture Easily soluble in the following materials: cold water and hot water.
<b>Partition coefficient: n-octanol/water</b>	: Ultra Pure Water for CE -1.38 Basic Anion Buffer for CE Not available. Inorganic Anion Test Mixture Not available.

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## SECTION 9: Physical and chemical properties

<b>Auto-ignition temperature</b>	: Ultra Pure Water for CE	Not applicable.
	Basic Anion Buffer for CE	Not available.
	Inorganic Anion Test Mixture	Not available.
<b>Decomposition temperature</b>	: Ultra Pure Water for CE	Not available.
	Basic Anion Buffer for CE	Not available.
	Inorganic Anion Test Mixture	Not available.
<b>Viscosity</b>	: Ultra Pure Water for CE	Not available.
	Basic Anion Buffer for CE	Not available.
	Inorganic Anion Test Mixture	Not available.
<b>Explosive properties</b>	: Ultra Pure Water for CE	Not available.
	Basic Anion Buffer for CE	Not available.
	Inorganic Anion Test Mixture	Not available.
<b>Oxidising properties</b>	: Ultra Pure Water for CE	Not applicable.
	Basic Anion Buffer for CE	Not available.
	Inorganic Anion Test Mixture	Not available.

### 9.2 Other information

No additional information.

## SECTION 10: Stability and reactivity

<b>10.1 Reactivity</b>	: Ultra Pure Water for CE	No specific test data related to reactivity available for this product or its ingredients.
	Basic Anion Buffer for CE	No specific test data related to reactivity available for this product or its ingredients.
	Inorganic Anion Test Mixture	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	The product is stable.
	Basic Anion Buffer for CE	The product is stable.
	Inorganic Anion Test Mixture	The product is stable.
<b>10.3 Possibility of hazardous reactions</b>	: Ultra Pure Water for CE	Under normal conditions of storage and use, hazardous reactions will not occur.
	Basic Anion Buffer for CE	Under normal conditions of storage and use, hazardous reactions will not occur.
	Inorganic Anion Test Mixture	Under normal conditions of storage and use, hazardous reactions will not occur.
<b>10.4 Conditions to avoid</b>	: Ultra Pure Water for CE	No specific data.
	Basic Anion Buffer for CE	No specific data.
	Inorganic Anion Test Mixture	No specific data.

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## SECTION 10: Stability and reactivity

**10.5 Incompatible materials** :  Ultra Pure Water for CE May react or be incompatible with oxidising materials.  
 Basic Anion Buffer for CE Reactive or incompatible with the following materials:  
 acids  
 Inorganic Anion Test Mixture May react or be incompatible with oxidising materials.

**10.6 Hazardous decomposition products** :  Ultra Pure Water for CE Under normal conditions of storage and use, hazardous decomposition products should not be produced.  
 Basic Anion Buffer for CE Under normal conditions of storage and use, hazardous decomposition products should not be produced.  
 Inorganic Anion Test Mixture Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
<input checked="" type="checkbox"/> Inorganic Anion Test Mixture				
Sodium fluoride	LD50 Oral	Rat	31 mg/kg	-
Sodium nitrite	LC50 Inhalation Dusts and mists	Rat	5.5 mg/l	4 hours
	LD50 Oral	Rat	85 mg/kg	-

#### 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
<input checked="" type="checkbox"/> Inorganic Anion Test Mixture					
Sodium fluoride	Eyes - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
Sodium nitrite	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-

#### 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.

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## SECTION 11: Toxicological information

**Information on likely routes of exposure** : Ultra Pure Water for CE Not available.  
Basic Anion Buffer for CE Not available.  
Inorganic Anion Test Mixture Routes of entry anticipated: Oral, Dermal, Inhalation.

### Potential acute health effects

**Inhalation** : Ultra Pure Water for CE No known significant effects or critical hazards.  
Basic Anion Buffer for CE No known significant effects or critical hazards.  
Inorganic Anion Test Mixture No known significant effects or critical hazards.

**Ingestion** : Ultra Pure Water for CE No known significant effects or critical hazards.  
Basic Anion Buffer for CE No known significant effects or critical hazards.  
Inorganic Anion Test Mixture No known significant effects or critical hazards.

**Skin contact** : Ultra Pure Water for CE No known significant effects or critical hazards.  
Basic Anion Buffer for CE No known significant effects or critical hazards.  
Inorganic Anion Test Mixture No known significant effects or critical hazards.

**Eye contact** : Ultra Pure Water for CE No known significant effects or critical hazards.  
Basic Anion Buffer for CE No known significant effects or critical hazards.  
Inorganic Anion Test Mixture No known significant effects or critical hazards.

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

**Inhalation** : Ultra Pure Water for CE No specific data.  
Basic Anion Buffer for CE No specific data.  
Inorganic Anion Test Mixture No specific data.

**Ingestion** : Ultra Pure Water for CE No specific data.  
Basic Anion Buffer for CE No specific data.  
Inorganic Anion Test Mixture No specific data.

**Skin contact** : Ultra Pure Water for CE No specific data.  
Basic Anion Buffer for CE No specific data.  
Inorganic Anion Test Mixture No specific data.

**Eye contact** : Ultra Pure Water for CE No specific data.  
Basic Anion Buffer for CE 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

**General** : Ultra Pure Water for CE No known significant effects or critical hazards.  
Basic Anion Buffer for CE No known significant effects or critical hazards.  
Inorganic Anion Test Mixture No known significant effects or critical hazards.

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## SECTION 11: Toxicological information

<b>Carcinogenicity</b>	: <input checked="" type="checkbox"/> Ultra Pure Water for CE	No known significant effects or critical hazards.
	: <input checked="" type="checkbox"/> Basic Anion Buffer for CE	No known significant effects or critical hazards.
	: <input checked="" type="checkbox"/> Inorganic Anion Test Mixture	No known significant effects or critical hazards.
<b>Mutagenicity</b>	: <input checked="" type="checkbox"/> Ultra Pure Water for CE	No known significant effects or critical hazards.
	: <input checked="" type="checkbox"/> Basic Anion Buffer for CE	No known significant effects or critical hazards.
	: <input checked="" type="checkbox"/> Inorganic Anion Test Mixture	No known significant effects or critical hazards.
<b>Teratogenicity</b>	: <input checked="" type="checkbox"/> Ultra Pure Water for CE	No known significant effects or critical hazards.
	: <input checked="" type="checkbox"/> Basic Anion Buffer for CE	No known significant effects or critical hazards.
	: <input checked="" type="checkbox"/> Inorganic Anion Test Mixture	No known significant effects or critical hazards.
<b>Developmental effects</b>	: <input checked="" type="checkbox"/> Ultra Pure Water for CE	No known significant effects or critical hazards.
	: <input checked="" type="checkbox"/> Basic Anion Buffer for CE	No known significant effects or critical hazards.
	: <input checked="" type="checkbox"/> Inorganic Anion Test Mixture	No known significant effects or critical hazards.
<b>Fertility effects</b>	: <input checked="" type="checkbox"/> Ultra Pure Water for CE	No known significant effects or critical hazards.
	: <input checked="" type="checkbox"/> Basic Anion Buffer for CE	No known significant effects or critical hazards.
	: <input checked="" type="checkbox"/> Inorganic Anion Test Mixture	No known significant effects or critical hazards.

## SECTION 12: Ecological information

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure	
<input checked="" type="checkbox"/> Inorganic Anion Test Mixture Sodium fluoride	Acute EC50 181000 µg/l Marine water	Algae - Skeletonema costatum	96 hours	
	Acute EC50 850000 µg/l Fresh water	Algae - Scenedesmus subspicatus - Exponential growth phase	72 hours	
	Acute EC50 179.4 mg/l Fresh water	Crustaceans - Cypris subglobosa	48 hours	
	Acute EC50 98000 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours	
	Acute LC50 51 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours	
	Chronic NOEC 14000 µg/l Fresh water	Daphnia - Daphnia magna	21 days	
	Chronic NOEC 3.1 mg/l Fresh water	Fish - Acipenser baerii - Juvenile (Fledgling, Hatchling, Weanling)	90 days	
	Sodium nitrite	Acute EC50 159000 µg/l Marine water	Algae - Tetraselmis chuii	72 hours
		Acute EC50 1600000 µg/l Marine water	Algae - Tetraselmis chuii	96 hours
		Acute LC50 1100 µg/l Fresh water	Crustaceans - Cherax quadricarinatus	48 hours
Acute LC50 0.16 µg/l Fresh water		Fish - Ictalurus punctatus - Fingerling	96 hours	
	Chronic NOEC 0.912 mg/l Marine water	Fish - Hippocampus abdominalis - Juvenile (Fledgling, Hatchling, Weanling)	35 days	

### 12.2 Persistence and degradability

Not available.

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## SECTION 12: Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
<input checked="" type="checkbox"/> Ultra Pure Water for CE Water	-	-	Readily
<b>Inorganic Anion Test Mixture</b> Sodium nitrite	-	-	Readily

### 12.3 Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
<input checked="" type="checkbox"/> Ultra Pure Water for CE Water	-1.38	-	low
<b>Inorganic Anion Test Mixture</b> Sodium nitrite	-3.7	-	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.



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## SECTION 14: Transport information

ADR/RID / IMDG / IATA : Not regulated.

**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.  
 Basic Anion Buffer for CE 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 controlled under the Seveso Directive.

##### Danger criteria

###### Category

Inorganic Anion Test Mixture  
E1

#### International regulations

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

Not listed.

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

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

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## SECTION 15: Regulatory information

<b>Australia</b>	: Not determined.
<b>Canada</b>	: At least one component is not listed in DSL but all such components are listed in NDSL.
<b>China</b>	: Not determined.
<b>Europe</b>	: All components are listed or exempted.
<b>Japan</b>	: <b>Japan inventory (ENCS)</b> : All components are listed or exempted. <b>Japan inventory (ISHL)</b> : All components are listed or exempted.
<b>Malaysia</b>	: Not determined.
<b>New Zealand</b>	: All components are listed or exempted.
<b>Philippines</b>	: Not determined.
<b>Republic of Korea</b>	: All components are listed or exempted.
<b>Taiwan</b>	: All components are listed or exempted.
<b>Thailand</b>	: <input checked="" type="checkbox"/> Not determined.
<b>Turkey</b>	: Not determined.
<b>United States</b>	: All components are listed or exempted.
<b>Viet Nam</b>	: <input checked="" type="checkbox"/> 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
<input checked="" type="checkbox"/> <b>Inorganic Anion Test Mixture</b> Aquatic Acute 1, H400	Calculation method

### Full text of abbreviated H statements

<input checked="" type="checkbox"/> <b>Inorganic Anion Test Mixture</b> H272 H301 H315 H319 H400	May intensify fire; oxidiser. Toxic if swallowed. Causes skin irritation. Causes serious eye irritation. Very toxic to aquatic life.
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### Full text of classifications [CLP/GHS]

<input checked="" type="checkbox"/> <b>Inorganic Anion Test Mixture</b> Acute Tox. 3, H301 Aquatic Acute 1, H400 EUH032 Eye Irrit. 2, H319 Ox. Sol. 3, H272 Skin Irrit. 2, H315	ACUTE TOXICITY (oral) - Category 3 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 Contact with acids liberates very toxic gas. SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 OXIDISING SOLIDS - Category 3 SKIN CORROSION/IRRITATION - Category 2
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**Date of issue/ Date of revision** : 01/03/2018

**Date of previous issue** : 24/03/2017

**Date of issue/Date of revision** : 01/03/2018

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## **SECTION 16: Other information**

**Version** : 2

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