

SAFETY DATA SHEET

Inorganic Anion Analysis Kit

Section 1. Identification

Product identifier	: Inorganic Anion Analysis Kit		
Part No. (Chemical Kit)	: 5063-6511, 5063-6511-P		
Part No.	: 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	

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

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

Supplier/Manufacturer : Agilent Technologies Australia Pty Ltd
679 Springvale Road
Mulgrave
Victoria 3170, Australia
1800 802 402

Emergency telephone number (with hours of operation) : CHEMTREC®: +(61)-290372994

Section 2. Hazard(s) identification

Classification of the substance or mixture

Sodium Hydroxide Solution 1.0N for HPCE

H290	CORROSIVE TO METALS - Category 1
H315	SKIN CORROSION/IRRITATION - Category 2
H318	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
H335	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3

Inorganic Anion Test Mixture

H402	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 3
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GHS label elements

Hazard pictograms

: Sodium Hydroxide Solution 1.0N for HPCE



Section 2. Hazard(s) identification

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. H318 - Causes serious eye damage. H315 - Causes skin irritation. H335 - May cause respiratory irritation. No known significant effects or critical hazards. H402 - Harmful to aquatic life.
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 eye or face protection. P234 - Keep only in original container. P271 - Use only outdoors or in a well-ventilated area. P261 - Avoid breathing vapour. P264 - Wash hands thoroughly after handling. Not applicable. P273 - Avoid release to the environment.
Response	: 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. P390 - Absorb spillage to prevent material damage. P304 + P340 + P312 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. P302 + P352 + P362 + P363 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. P332 + P313 - If skin irritation occurs: Get medical attention. P305 + P351 + P338 + P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician. Not applicable. Not applicable.
Storage	: Ultra Pure Water for CE Inorganic Anion Buffer Solution Sodium Hydroxide Solution 1. 0N for HPCE Sodium Hydroxide Solution 0.	Not applicable. Not applicable. P405 - Store locked up. P406 - Store in corrosive resistant container with a resistant inner liner. Not applicable.

Section 2. Hazard(s) identification

	1N for HPCE Inorganic Anion Test Mixture	Not applicable.
Disposal	: Ultra Pure Water for CE Inorganic Anion Buffer Solution	Not applicable. 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	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	: Ultra Pure Water for CE Inorganic Anion Buffer Solution	Not applicable. 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 hazards which do not result in classification	: Ultra Pure Water for CE Inorganic Anion Buffer Solution	None known. 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 and ingredient information

Substance/mixture	: Ultra Pure Water for CE Inorganic Anion Buffer Solution	Substance Mixture
	Sodium Hydroxide Solution 1. 0N for HPCE	Mixture
	Sodium Hydroxide Solution 0. 1N for HPCE	Mixture
	Inorganic Anion Test Mixture	Mixture

CAS number/other identifiers

Ingredient name	% (w/w)	CAS number
Ultra Pure Water for CE Water	100	7732-18-5
Sodium Hydroxide Solution 1.0N for HPCE Sodium hydroxide	≤5	1310-73-2
Inorganic Anion Test Mixture Sodium nitrite	<0.25	7632-00-0

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.

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

Section 4. First aid measures

Description of necessary 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.
	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, 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. 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.
	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. 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 recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Section 4. First aid measures

Skin contact	: 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. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: 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 Solution	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.
	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 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

Section 4. First aid measures

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.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	:	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.
Inhalation	:	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	May cause respiratory irritation.
		Sodium Hydroxide Solution 0.1N for HPCE	No known significant effects or critical hazards.
Skin contact	:	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 skin irritation.
		Sodium Hydroxide Solution 0.1N for HPCE	No known significant effects or critical hazards.
Ingestion	:	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	Corrosive to the digestive tract. Causes burns.
		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.

Over-exposure signs/symptoms

Eye contact	:	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.

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Inhalation	:	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: respiratory tract irritation coughing
		Sodium Hydroxide Solution 0.1N for HPCE	No specific data.
		Inorganic Anion Test Mixture	No specific data.
Skin contact	:	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.
		Inorganic Anion Test Mixture	No specific data.
Ingestion	:	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: stomach pains
		Sodium Hydroxide Solution 0.1N for HPCE	No specific data.
		Inorganic Anion Test Mixture	No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

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

Section 4. First aid measures

Protection of first-aiders	: 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. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

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

Specific hazards arising from the chemical

: Ultra Pure Water for CE	In a fire or if heated, a pressure increase will occur and the container may burst.
Inorganic Anion Buffer Solution	In a fire or if heated, a pressure increase will occur and the container may burst.
Sodium Hydroxide Solution 1.0N for HPCE	In a fire or if heated, a pressure increase will occur and the container may burst.
Sodium Hydroxide Solution 0.1N for HPCE	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 harmful to aquatic life. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Section 5. Firefighting measures

Hazardous thermal decomposition products	: Ultra Pure Water for CE	No specific data.
	Inorganic Anion Buffer Solution	No specific data.
	Sodium Hydroxide Solution 1.0N for HPCE	Decomposition products may include the following materials: metal oxide/oxides
	Sodium Hydroxide Solution 0.1N for HPCE	No specific data.
	Inorganic Anion Test Mixture	No specific data.
Special protective actions for fire-fighters	: 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.
	Inorganic Anion Buffer Solution	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	Sodium Hydroxide Solution 1.0N for HPCE	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.
	Sodium Hydroxide Solution 0.1N for HPCE	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.
Special protective equipment for fire-fighters	: 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.
	Inorganic Anion Buffer Solution	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Sodium Hydroxide Solution 1.0N for HPCE	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Sodium Hydroxide Solution 0.1N for HPCE	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	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.
Hazchem code	: Ultra Pure Water for CE	Not available.
	Inorganic Anion Buffer Solution	Not available.
	Sodium Hydroxide Solution 1.0N for HPCE	2R
	Sodium Hydroxide Solution 0.1N for HPCE	Not available.
	Inorganic Anion Test Mixture	Not available.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: 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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: 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".

Section 6. Accidental release measures

Environmental precautions	: 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). Water polluting material. May be harmful to the environment if released in large quantities.

Methods and material for containment and cleaning up

Methods for cleaning up	: 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.

Section 7. Handling and storage

Precautions for safe handling

Protective measures	: 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. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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). 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.
Advice on general occupational hygiene	: 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.

Section 7. Handling and storage

Conditions for safe storage, including any incompatibilities : Ultra Pure Water for CE

Inorganic Anion Buffer Solution	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. 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. 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.

Section 8. Exposure controls and personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
<input checked="" type="checkbox"/> Sodium Hydroxide Solution 1.0N for HPCE Sodium hydroxide	Safe Work Australia (Australia, 1/2014). TWA: 2 mg/m ³ 8 hours.

- Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- 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.

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: 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.

Section 9. Physical and chemical properties

Appearance

- Physical state** : Ultra Pure Water for CE Liquid.
 Inorganic Anion Buffer Liquid.
 Solution
 Sodium Hydroxide Solution 1.0N for HPCE Liquid. [Clear.]
 Sodium Hydroxide Solution 0.1N for HPCE Liquid. [Clear.]
 Inorganic Anion Test Mixture Liquid.

Section 9. Physical and chemical properties

Colour	: <input checked="" type="checkbox"/> 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	Clear. Colourless. Colourless. Colourless. Colourless. Clear. Colourless.
Odour	: <input checked="" type="checkbox"/> 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	Odourless. Odourless. Not available. Not available. Not available.
Odour threshold	: <input checked="" type="checkbox"/> 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.
pH	: <input checked="" type="checkbox"/> 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	7 7.7 >11.5 13 Not available.
Melting point	: <input checked="" type="checkbox"/> 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°C (32°F) 0°C (32°F) 0°C (32°F) 0°C (32°F) 0°C (32°F)
Boiling point	: <input checked="" type="checkbox"/> 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	100°C (212°F) 100°C (212°F) 100°C (212°F) 100°C (212°F) 100°C (212°F)
Flash point	: <input checked="" type="checkbox"/> 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 available. Not available. Not available. Not available.

Section 9. Physical and chemical properties

Evaporation rate	: 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. <1 (butyl acetate = 1) Not available. Not available. Not available. <1 (butyl acetate = 1)
Flammability (solid, gas)	: 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. Not applicable.
Lower and upper explosive (flammable) limits	: 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. Not available.
Vapour pressure	: 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 (23.8 mm Hg) [room temperature] Not available. <2.4 kPa (<18 mm Hg) [room temperature] <2.4 kPa (<18 mm Hg) [room temperature] Not available.
Vapour density	: 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.
Relative density	: 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.
Solubility	: 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.

Section 9. Physical and chemical properties

Partition coefficient: n-octanol/water	: 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.
Auto-ignition temperature	: 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.
Decomposition temperature	: 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.
Viscosity	: 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.

Section 10. Stability and reactivity

Reactivity	: Ultra Pure Water for CE	No specific test data related to reactivity available for this product or its ingredients.
	Inorganic Anion Buffer Solution	No specific test data related to reactivity available for this product or its ingredients.
	Sodium Hydroxide Solution 1. 0N for HPCE	No specific test data related to reactivity available for this product or its ingredients.
	Sodium Hydroxide Solution 0. 1N for HPCE	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.
Chemical stability	: Ultra Pure Water for CE	The product is stable.
	Inorganic Anion Buffer Solution	The product is stable.
	Sodium Hydroxide Solution 1. 0N for HPCE	The product is stable.
	Sodium Hydroxide Solution 0. 1N for HPCE	The product is stable.
	Inorganic Anion Test Mixture	The product is stable.
Possibility of hazardous reactions	: Ultra Pure Water for CE	Under normal conditions of storage and use, hazardous reactions will not occur.
	Inorganic Anion Buffer Solution	Under normal conditions of storage and use, hazardous reactions will not occur.
	Sodium Hydroxide Solution 1. 0N for HPCE	Under normal conditions of storage and use, hazardous reactions will not occur.
	Sodium Hydroxide Solution 0.	Under normal conditions of storage and use,

Section 10. Stability and reactivity

1N for HPCE
Inorganic Anion Test Mixture

hazardous reactions will not occur.
Under normal conditions of storage and use,
hazardous reactions will not occur.

Conditions to avoid

: Ultra Pure Water for CE
Inorganic Anion Buffer
Solution

No specific data.
No specific data.

Sodium Hydroxide Solution
1.0N for HPCE

No specific data.

Sodium Hydroxide Solution
0.1N for HPCE

No specific data.

Inorganic Anion Test Mixture

No specific data.

Incompatible materials

: Ultra Pure Water for CE
Inorganic Anion Buffer
Solution

May react or be incompatible with oxidising materials.
May react or be incompatible with oxidising materials.

Sodium Hydroxide Solution 1.0N for HPCE

1. Reactive or incompatible with the following materials:
acids
metals

Sodium Hydroxide Solution 0.1N for HPCE

0. Reactive or incompatible with the following materials:
acids

Inorganic Anion Test Mixture

May react or be incompatible with oxidising materials.

Hazardous decomposition products

: Ultra Pure Water for CE

Under normal conditions of storage and use,
hazardous decomposition products should not be
produced.

Inorganic Anion Buffer
Solution

Under normal conditions of storage and use,
hazardous decomposition products should not be
produced.

Sodium Hydroxide Solution 1.0N for HPCE

1. Under normal conditions of storage and use,
hazardous decomposition products should not be
produced.

Sodium Hydroxide Solution 0.1N for HPCE

0. 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

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Inorganic Anion Test Mixture Sodium nitrite	LC50 Inhalation Dusts and mists LD50 Oral	Rat Rat	5.5 mg/l 85 mg/kg	4 hours -

Irritation/Corrosion

Section 11. Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
Sodium Hydroxide Solution 1.0N for HPCE Sodium hydroxide	Eyes - Severe irritant	Rabbit	-	24 hours 50 Micrograms	-
	Eyes - Severe irritant	Rabbit	-	1 Percent	-
	Eyes - Severe irritant	Rabbit	-	0.5 minutes	-
	Skin - Severe irritant	Rabbit	-	1 milligrams 24 hours 500 milligrams	-
Inorganic Anion Test Mixture Sodium nitrite	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-

Sensitisation

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Sodium Hydroxide Solution 1.0N for HPCE Sodium Hydroxide Solution 1.0N for HPCE	Category 3	Not applicable.	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure :

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

Potential acute health effects

Eye contact :

- 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.

Section 11. Toxicological information

	Inorganic Anion Test Mixture	No known significant effects or critical hazards.
Inhalation	: 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	May cause respiratory irritation.
	Sodium Hydroxide Solution 0.1N for HPCE	No known significant effects or critical hazards.
Skin contact	: 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 skin irritation.
	Sodium Hydroxide Solution 0.1N for HPCE	No known significant effects or critical hazards.
Ingestion	: 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	Corrosive to the digestive tract. Causes burns.
	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.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: 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.
Inhalation	: 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: respiratory tract irritation coughing
	Sodium Hydroxide Solution 0.1N for HPCE	No specific data.
Skin contact	: 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.
	Inorganic Anion Test Mixture	No specific data.

Section 11. Toxicological information

Ingestion	: 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: stomach pains
	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

Not available.

General	: 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.

Carcinogenicity	: 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.

Mutagenicity	: 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.

Teratogenicity	: 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.

Section 11. Toxicological information

Developmental effects	:	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.
Fertility effects	:	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.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

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
Inorganic Anion Test Mixture 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 48 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

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 Test Mixture				

Section 12. Ecological information

Sodium nitrite	-	-	Readily
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Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Ultra Pure Water for CE Water	-1.38	-	low
Inorganic Anion Test Mixture Sodium nitrite	-3.7	-	low

Mobility in soil




Soil/water partition coefficient (K_{oc}) : Not available.

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

Section 13. Disposal considerations

Disposal methods : 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	ADG	IMDG	IATA
UN number	UN3316	UN3316	UN3316
UN proper shipping name	CHEMICAL KIT	CHEMICAL KIT	chemical kit
Transport hazard class(es)	9 	9 	9 
Packing group	II	II	II
Environmental hazards	No.	No.	No.

Additional information

ADG : **Hazchem code** 2Z
Special provisions 251, 340

IMDG : **Emergency schedules** F-A, _S-P_
Special provisions 251, 340

Section 14. Transport information

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

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.

Transport in bulk according to Annex II of Marpol and the IBC Code : Not available.

Section 15. Regulatory information

Standard Uniform Schedule of Medicine and Poisons



Model Work Health and Safety Regulations - Scheduled Substances

<u>Ingredient name</u>	<u>Schedule</u>
Inorganic Anion Test Mixture sodium nitrite	Restricted hazardous chemical [For wet abrasive blasting]
Sodium nitrate	Restricted hazardous chemical [For wet abrasive blasting]

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

Australia : Not determined.
Canada : Not determined.
China : Not determined.
Europe : Not determined.
Japan : **Japan inventory (ENCS):** Not determined.
Japan inventory (ISHL): Not determined.
Malaysia : Not determined.
New Zealand : Not determined.
Philippines : Not determined.
Republic of Korea : Not determined.
Taiwan : Not determined.
Thailand : Not determined.
Turkey : Not determined.

Section 15. Regulatory information

United States : Not determined.

Viet Nam : Not determined.

Section 16. Any other relevant information

History

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

Date of previous issue : 14/07/2011.

Version : 4

Key to abbreviations :

- ADG = Australian Dangerous Goods
- ATE = Acute Toxicity Estimate
- BCF = Bioconcentration Factor
- GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- IATA = International Air Transport Association
- IBC = Intermediate Bulk Container
- IMDG = International Maritime Dangerous Goods
- LogPow = logarithm of the octanol/water partition coefficient
- MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
- NOHSC = National Occupational Health and Safety Commission
- SUSMP = Standard Uniform Schedule of Medicine and Poisons
- UN = United Nations

Procedure used to derive the classification

Classification	Justification
<input checked="" type="checkbox"/> Sodium Hydroxide Solution 1.0N for HPCE Met. Corr. 1, H290 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335	Expert judgment Expert judgment Expert judgment Expert judgment
Inorganic Anion Test Mixture Aquatic Acute 3, H402	Calculation method

References : Not available.

Indicates information that has changed from previously issued version.

Notice to reader

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