# SAFETY DATA SHEET



Organic Acids Solutions Kit

## **Section 1. Identification**

**Product identifier** : Organic Acids Solutions Kit Part no. (chemical kit) : 5063-6510. 5063-6510-P

Part no. : Ultra Pure Water for CE 5062-8578 Sodium Hydroxide Solution 0.1N for 5062-8575

**HPCE** 

Sodium Hydroxide Solution 1.0N for 5062-8576

**HPCE** 

Organic Acids Buffer Solution pH 5.6 8500-6785 Organic Acids Test Sample 8500-6900

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

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

> Itra Pure Water for CE 500 ml Sodium Hydroxide Solution 0.1N for HPCE 250 ml Sodium Hydroxide Solution 1.0N for HPCE 250 ml 250 ml Organic Acids Buffer Solution pH 5.6 Organic Acids Test Sample 20 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 0.1N for HPCE

H290 CORROSIVE TO METALS - Category 1

H320 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2B

**Sodium Hydroxide Solution** 

1.0N for HPCE

H290 CORROSIVE TO METALS - Category 1

SKIN CORROSION/IRRITATION - Category 1B H314

H318 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1

**GHS** label elements

**Hazard pictograms** : Sodium Hydroxide Solution

0.1N for HPCE



Sodium Hydroxide Solution

1.0N for HPCE



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Section 2. Hazard(s) identification Signal word No signal word. Sodium Hydroxide Solution WARNING 0.1N for HPCE Sodium Hydroxide Solution **DANGER** 1.0N for HPCE Organic Acids Buffer No signal word. Solution pH 5.6 Organic Acids Test Sample No signal word. : Vitra Pure Water for CE **Hazard statements** No known significant effects or critical hazards. Sodium Hydroxide Solution H290 - May be corrosive to metals. 0.1N for HPCE H320 - Causes eve irritation. Sodium Hydroxide Solution H290 - May be corrosive to metals. 1.0N for HPCE H314 - Causes severe skin burns and eye damage. Organic Acids Buffer No known significant effects or critical hazards. Solution pH 5.6 Organic Acids Test Sample No known significant effects or critical hazards. **Precautionary statements Prevention** Not applicable. P234 - Keep only in original packaging. Sodium Hydroxide Solution 0.1N for HPCE Sodium Hydroxide Solution P280 - Wear protective gloves, protective clothing 1.0N for HPCE and eye or face protection. Not applicable. Organic Acids Buffer Solution pH 5.6 Organic Acids Test Sample Not applicable. Intra Pure Water for CE Response Not applicable. Sodium Hydroxide Solution P390 - Absorb spillage to prevent material damage. 0.1N for HPCE P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention. P304 + P310 - IF INHALED: Immediately call a Sodium Hydroxide Solution 1.0N for HPCE POISON CENTER or doctor. P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. P303 + P361 + P353, P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor. Organic Acids Buffer Not applicable. Solution pH 5.6 Organic Acids Test Sample Not applicable. : Vitra Pure Water for CE Not applicable. **Storage** Sodium Hydroxide Solution Not applicable. 0.1N for HPCE Sodium Hydroxide Solution Not applicable. 1.0N for HPCE Organic Acids Buffer Not applicable. Solution pH 5.6 Organic Acids Test Sample Not applicable. **Disposal** Not applicable. Sodium Hydroxide Solution Not applicable. 0.1N for HPCE Sodium Hydroxide Solution P501 - Dispose of contents and container in

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accordance with all local, regional, national and

international regulations.

Not applicable.

1.0N for HPCE

Organic Acids Buffer

**Organic Acids Solutions Kit** 

# Section 2. Hazard(s) identification

Solution pH 5.6

Organic Acids Test Sample Not applicable.

Supplemental label elements

**Additional warning** phrases

Itra Pure Water for CE Sodium Hydroxide Solution

0.1N for HPCE

Sodium Hydroxide Solution

1.0N for HPCE

Organic Acids Buffer

Solution pH 5.6

Organic Acids Test Sample

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Other hazards which do not result in classification

Itra Pure Water for CE Sodium Hydroxide Solution

0.1N for HPCE

Sodium Hydroxide Solution

1.0N for HPCE

Organic Acids Buffer

Solution pH 5.6

Organic Acids Test Sample

None known. None known.

Causes severe digestive tract burns.

None known.

None known.

# Section 3. Composition and ingredient information

Substance/mixture

Sodium Hydroxide Solution

0.1N for HPCE

Sodium Hydroxide Solution

1.0N for HPCE

Organic Acids Buffer

Solution pH 5.6 Organic Acids Test Sample Substance Mixture

Mixture

Mixture

Mixture

#### **CAS** number/other identifiers

Ingredient name	% (w/w)	CAS number
☑tra Pure Water for CE		
water	100	7732-18-5
Sodium Hydroxide Solution 0.1N for HPCE		
Sodium hydroxide	<1	1310-73-2
Sodium Hydroxide Solution 1.0N for HPCE		
Sodium hydroxide	≤5	1310-73-2

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

The total concentration of ingredients in this product, reported or not in this section, is 100%.

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

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#### **Description of necessary first aid measures**

**Eye contact** 

: Vitra 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.

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. Continue to rinse for at least 10 minutes. If irritation persists, get medical attention.

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.

Organic Acids Buffer Solution pH 5.6

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.

Organic Acids Test Sample

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.

Inhalation

: Vitra 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.

Sodium Hydroxide Solution 0.1N for HPCE

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.

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 selfcontained 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.

Organic Acids Buffer Solution pH 5.6

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical

attention if symptoms occur.

Organic Acids Test Sample

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical

attention if symptoms occur.

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Skin contact

: Vitra Pure Water for CE

Sodium Hydroxide Solution 0.1N for HPCE

Sodium Hydroxide Solution 1.0N for HPCE

Organic Acids Buffer Solution pH 5.6

Organic Acids Test Sample

Ingestion : 

✓ Itra Pure Water for CE

Sodium Hydroxide Solution 0.1N for HPCE

Sodium Hydroxide Solution 1.0N for HPCE

Organic Acids Buffer Solution pH 5.6

Organic Acids Test Sample

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

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. 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. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. 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.

Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. Wash out mouth with water. If material has been

swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce

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vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

#### Most important symptoms/effects, acute and delayed

Potential acute health effects
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**Eye contact** 

Itra Pure Water for CE Sodium Hydroxide Solution

0.1N for HPCE

Sodium Hydroxide Solution

1.0N for HPCE Organic Acids Buffer Solution pH 5.6

Organic Acids Test Sample

Inhalation Itra Pure Water for CE Sodium Hydroxide Solution

0.1N for HPCE

Sodium Hydroxide Solution

1.0N for HPCE Organic Acids Buffer Solution pH 5.6

Organic Acids Test Sample

Skin contact ✓ Itra Pure Water for CE

Sodium Hydroxide Solution 0.1N for HPCE

Sodium Hydroxide Solution

1.0N for HPCE Organic Acids Buffer Solution pH 5.6

Organic Acids Test Sample

Ingestion Itra Pure Water for CE

Sodium Hydroxide Solution

0.1N for HPCE

Sodium Hydroxide Solution

1.0N for HPCE Organic Acids Buffer

Solution pH 5.6

Organic Acids Test Sample

No known significant effects or critical hazards.

Causes eye irritation.

Causes serious eye damage.

No known significant effects or critical hazards.

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

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

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

No known significant effects or critical hazards.

Causes severe burns.

No known significant effects or critical hazards.

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

No known significant effects or critical hazards.

Severely corrosive to the digestive tract. Causes

severe burns.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

Eye contact

Inhalation

: Vitra Pure Water for CE

Sodium Hydroxide Solution

0.1N for HPCE

No specific data.

Adverse symptoms may include the following:

irritation watering

redness

Sodium Hydroxide Solution

1.0N for HPCE

Adverse symptoms may include the following:

pain watering redness

No specific data.

Organic Acids Buffer

Solution pH 5.6

Organic Acids Test Sample

: Vitra Pure Water for CE Sodium Hydroxide Solution

0.1N for HPCE

Sodium Hydroxide Solution 1.0N for HPCE

Organic Acids Buffer Solution pH 5.6

No specific data.

Organic Acids Test Sample No specific data.

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**Skin contact** 

Ingestion

: Vitra Pure Water for CE Sodium Hydroxide Solution

0.1N for HPCE

Sodium Hydroxide Solution

1.0N for HPCE

No specific data. No specific data.

Adverse symptoms may include the following:

pain or irritation redness

blistering may occur No specific data.

Organic Acids Buffer Solution pH 5.6

Organic Acids Test Sample : Vitra Pure Water for CE

Sodium Hydroxide Solution 0.1N for HPCE

Sodium Hydroxide Solution

1.0N for HPCE

Organic Acids Buffer Solution pH 5.6

Organic Acids Test Sample

No specific data. No specific data. No specific data.

Adverse symptoms may include the following:

stomach pains No specific data.

No specific data.

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

Notes to physician

: Vitra Pure Water for CE

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

Sodium Hydroxide Solution 0.1N for HPCE

Sodium Hydroxide Solution

ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been

1.0N for HPCE

Organic Acids Buffer Solution pH 5.6

ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been

ingested or inhaled.

Organic Acids Test Sample

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been

ingested or inhaled.

Specific treatments

: Vitra Pure Water for CE Sodium Hydroxide Solution

0.1N for HPCE

Sodium Hydroxide Solution

1.0N for HPCE Organic Acids Buffer Solution pH 5.6

Organic Acids Test Sample

No specific treatment. No specific treatment.

No specific treatment.

**Protection of first-aiders** Itra Pure Water for CE No specific treatment.

No specific treatment. No action shall be taken involving any personal risk

Sodium Hydroxide Solution 0.1N for HPCE

or without suitable training. 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

Sodium Hydroxide Solution

1.0N for HPCE

resuscitation. 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.

Organic Acids Buffer Solution pH 5.6

No action shall be taken involving any personal risk

or without suitable training.

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Organic Acids Test Sample

No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

## Section 5. Firefighting measures

#### **Extinguishing media**

Suitable extinguishing media

: Vitra Pure Water for CE

Sodium Hydroxide Solution 0.1N for HPCE

Sodium Hydroxide Solution

1.0N for HPCE Organic Acids Buffer Solution pH 5.6

Organic Acids Test Sample

Use an extinguishing agent suitable for the surrounding fire.

Use an extinguishing agent suitable for the surrounding fire.

Use an extinguishing agent suitable for the

surrounding fire. Use an extinguishing agent suitable for the

surrounding fire. Use an extinguishing agent suitable for the

surrounding fire.

**Unsuitable extinguishing** media

✓ Itra Pure Water for CE Sodium Hydroxide Solution 0.1N for HPCE

Sodium Hydroxide Solution

1.0N for HPCE Organic Acids Buffer Solution pH 5.6

Organic Acids Test Sample

None known. None known.

None known.

None known.

None known.

Specific hazards arising from the chemical

✓ Itra Pure Water for CE

Sodium Hydroxide Solution

0.1N for HPCE Sodium Hydroxide Solution

1.0N for HPCE Organic Acids Buffer Solution pH 5.6

Organic Acids Test Sample

In a fire or if heated, a pressure increase will occur and the container may burst.

In a fire or if heated, a pressure increase will occur and the container may burst.

In a fire or if heated, a pressure increase will occur and the container may burst.

In a fire or if heated, a pressure increase will occur and the container may burst.

In a fire or if heated, a pressure increase will occur

and the container may burst.

**Hazardous thermal** decomposition products Sodium Hydroxide Solution 0.1N for HPCE

Sodium Hydroxide Solution

1.0N for HPCE

Solution pH 5.6

Organic Acids Test Sample

No specific data. No specific data.

Decomposition products may include the following materials:

metal oxide/oxides No specific data.

No specific data.

**Special protective actions** for fire-fighters

: Vitra Pure Water for CE

Organic Acids Buffer

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.

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.

Organic Acids Buffer Solution pH 5.6

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No

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## Section 5. Firefighting measures

action shall be taken involving any personal risk or without suitable training.

williout Suitable training

Organic Acids Test Sample 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

: Vitra 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.

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.

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.

Organic Acids Buffer Solution pH 5.6

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

Organic Acids Test Sample

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

: Intra Pure Water for CE Sodium Hydroxide Solution

0.1N for HPCE

Sodium Hydroxide Solution

1.0N for HPCE Organic Acids Buffer Solution pH 5.6

Organic Acids Test Sample

Not available.

2R 2R

Not available.

Not available.

### Section 6. Accidental release measures

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

For non-emergency personnel

: Vitra 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.

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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

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.

appropriate personal protective equipment.

No action shall be taken involving any personal risk

or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected

Organic Acids Buffer Solution pH 5.6

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## Section 6. Accidental release measures

personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal

protective equipment.

Organic Acids Test Sample

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.

For emergency responders: Intra Pure Water for CE

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on

Sodium Hydroxide Solution 0.1N for HPCE

suitable and unsuitable materials. See also the information in "For non-emergency personnel". 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". If specialised clothing is required to deal with the

Sodium Hydroxide Solution 1.0N for HPCE

spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". If specialised clothing is required to deal with the

Organic Acids Buffer Solution pH 5.6

spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". If specialised clothing is required to deal with the

Organic Acids Test Sample

spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** 

: Vitra 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).

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).

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).

Organic Acids Buffer Solution pH 5.6

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).

Organic Acids Test Sample

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).

Methods and material for containment and cleaning up

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## Section 6. Accidental release measures

Methods for cleaning up

: Vitra 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.

Sodium Hydroxide Solution 0.1N for HPCE

Stop leak if without risk. Move containers from spill area. Contain and collect spillage with noncombustible, 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 1.0N for HPCE

Stop leak if without risk. Move containers from spill area. Contain and collect spillage with noncombustible, 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.

Organic Acids Buffer Solution pH 5.6

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.

Organic Acids Test Sample

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** 

: Vitra Pure Water for CE

Sodium Hydroxide Solution 0.1N for HPCE

Put on appropriate personal protective equipment (see Section 8).

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from acids. Empty containers retain product residue and can be hazardous. Do not reuse container. Absorb spillage to prevent material damage.

Sodium Hydroxide Solution 1.0N for HPCE

Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from acids. Empty containers retain product residue and can be hazardous. Do not reuse container. Absorb spillage to prevent material damage.

Organic Acids Buffer Solution pH 5.6

Organic Acids Test Sample

Put on appropriate personal protective equipment (see Section 8).

Put on appropriate personal protective equipment (see Section 8).

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# Section 7. Handling and storage

Advice on general occupational hygiene

: Intra Pure Water for CE

Sodium Hydroxide Solution 0.1N for HPCE

Sodium Hydroxide Solution 1.0N for HPCE

Organic Acids Buffer Solution pH 5.6

Organic Acids Test Sample

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

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. 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. 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. 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. 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.

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. 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. 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

Store in accordance with local regulations. Store in

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## Section 7. Handling and storage

1 0N for HPCF

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.

Organic Acids Buffer Solution pH 5.6

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. Store in accordance with local regulations. Store in

Organic Acids Test Sample

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
Sodium Hydroxide Solution 0.1N for HPCE Sodium hydroxide	Safe Work Australia (Australia, 10/2022). PEAK: 2 mg/m³
Sodium Hydroxide Solution 1.0N for HPCE Sodium hydroxide	Safe Work Australia (Australia, 10/2022). PEAK: 2 mg/m³

#### **Biological exposure indices**

No exposure indices known.

# Appropriate engineering controls

# **Environmental exposure** controls

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

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# Section 8. Exposure controls and personal protection

#### **Individual protection measures**

**Hygiene measures** 

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

**Eye/face protection** 

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

#### **Skin protection**

**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 and safety characteristics

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

#### **Appearance**

Colour

**Odour** 

: Vitra Pure Water for CE **Physical state** Liquid.

> Sodium Hydroxide Solution Liquid. [Clear.]

0.1N for HPCE

Sodium Hydroxide Solution Liquid. [Clear.]

1.0N for HPCE

Organic Acids Buffer Liquid.

Solution pH 5.6

Organic Acids Test Sample Liquid.

Itra Pure Water for CE Clear. / Colourless. Sodium Hydroxide Solution Colourless.

0.1N for HPCE

Sodium Hydroxide Solution Colourless.

1.0N for HPCE

Organic Acids Buffer

Colourless.

Solution pH 5.6

Organic Acids Test Sample Not available. ☑tra Pure Water for CE Odourless.

Sodium Hydroxide Solution Not available. 0.1N for HPCE

Sodium Hydroxide Solution

Not available. 1.0N for HPCE

Organic Acids Buffer Odourless. Solution pH 5.6

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# Section 9. Physical and chemical properties and safety characteristics

		Organic Acids Test Sample	Not available.
Odour threshold	:	Itra Pure Water for CE	Not available.
		Sodium Hydroxide Solution 0.1N for HPCE	Not available.
		Sodium Hydroxide Solution	Not available.
		1.0N for HPCE	
		Organic Acids Buffer	Not available.
		Solution pH 5.6	No. 6 and Table
		Organic Acids Test Sample	Not available.
рН	:	Itra Pure Water for CE	7 13
		Sodium Hydroxide Solution 0.1N for HPCE	13
		Sodium Hydroxide Solution	>11.5
		1.0N for HPCE	
		Organic Acids Buffer	5.6
		Solution pH 5.6	Not available.
Molting point/fronzing point		Organic Acids Test Sample  Intra Pure Water for CE	
Melting point/freezing point	•	Sodium Hydroxide Solution	0°C (32°F) 0°C (32°F)
		0.1N for HPCE	0 0 (02 1 )
		Sodium Hydroxide Solution	Not available.
		1.0N for HPCE	000 (0005)
		Organic Acids Buffer Solution pH 5.6	0°C (32°F)
		Organic Acids Test Sample	0°C (32°F)
Boiling point, initial boiling	:	☑tra Pure Water for CE	100°C (212°F)
point, and boiling range		Sodium Hydroxide Solution	100°C (212°F)
		0.1N for HPCE	No. 6 and Table
		Sodium Hydroxide Solution 1.0N for HPCE	Not available.
		Organic Acids Buffer	100°C (212°F)
		Solution pH 5.6	,
		Organic Acids Test Sample	100°C (212°F)
Flash point	٠	✓ Itra Pure Water for CE Sodium Hydroxide Solution	Closed cup: Not applicable.  Not available.
		0.1N for HPCE	Not available.
		Sodium Hydroxide Solution	Not available.
		1.0N for HPCE	
		Organic Acids Buffer Solution pH 5.6	Not available.
		Organic Acids Test Sample	Not available.
Evaporation rate	:	∬tra Pure Water for CE	Not available.
•		Sodium Hydroxide Solution	Not available.
		0.1N for HPCE	Nie Alexandelle
		Sodium Hydroxide Solution 1.0N for HPCE	Not available.
		Organic Acids Buffer	Not available.
		Solution pH 5.6	
		Organic Acids Test Sample	Not available.
Flammability	:	Intra Pure Water for CE	Not applicable.
		Sodium Hydroxide Solution 0.1N for HPCE	Not applicable.
		Sodium Hydroxide Solution	Not applicable.
		1.0N for HPCE	• •
		Organic Acids Buffer	Not applicable.
		Solution pH 5.6 Organic Acids Test Sample	Not applicable.
		o.gamo / toldo / tost Gample	. 131 applicable.

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# Section 9. Physical and chemical properties and safety characteristics

Lower and upper explosion limit/flammability limit

Vapour pressure

0.1N for HPCE

Sodium Hydroxide Solution

1.0N for HPCE

Organic Acids Buffer

Solution pH 5.6 Organic Acids Test Sample Not available.

Not available.

Not available.

Not available.

Not available.

: Vitra Pure Water for CE

2.3 kPa (17.5 mm Hg) [room temperature] 12.3 kPa (92.258 mm Hg) [50°C (122°F)]

Sodium Hydroxide Solution

0.1N for HPCE

Sodium Hydroxide Solution

<2.4 kPa (<18 mm Hg)

<2.4 kPa (<18 mm Hg)

1.0N for HPCE

	Vapou	ır Pressu	re at 20°C	Vapo	ur pressu	ure at 50°C
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
rganic Acids Buffer Solution pH 5.6						
water	17.5	2.3	-	92.258	12.3	-
Organic Acids Test Sample						
water	17.5	2.3	-	92.258	12.3	-

0.62 [Air = 1]

<1 [Air = 1]

<1 [Air = 1]

Not available.

Not available.

Not available.

Not available.

#### Relative vapour density

: Intra Pure Water for CE

Sodium Hydroxide Solution

0.1N for HPCE

Sodium Hydroxide Solution

1.0N for HPCE

Organic Acids Buffer

Solution pH 5.6

Organic Acids Test Sample

Organic Acids Test Sample

: **☑**tra Pure Water for CE

Sodium Hydroxide Solution

0.1N for HPCE

Sodium Hydroxide Solution

1.0N for HPCE

Organic Acids Buffer

Solution pH 5.6

0.000

0.999

Organic Acids Test Sample Not available.

#### Solubility(ies)

**Relative density** 

Media	Result
Vitra Pure Water for CE water Sodium Hydroxide Solution 0.1N for	Soluble
HPCE water Sodium Hydroxide Solution 1.0N for HPCE	Soluble
water	Soluble
Organic Acids Buffer Solution pH 5.6 water	Soluble
Organic Acids Test Sample water	Soluble

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# Section 9. Physical and chemical properties and safety characteristics

Partition coefficient: n-octanol/water

**Auto-ignition temperature** 

Particle characteristics
Median particle size

**Decomposition temperature** 

✓ Itra Pure Water for CE Sodium Hydroxide Solution 0.1N for HPCE

Sodium Hydroxide Solution

1.0N for HPCE
Organic Acids Buff

Organic Acids Buffer Solution pH 5.6

Organic Acids Test Sample

If tra Pure Water for CE

✓ Itra Pure Water for CE Sodium Hydroxide Solution

0.1N for HPCE

Sodium Hydroxide Solution

1.0N for HPCE Organic Acids Buffer

Solution pH 5.6
Organic Acids Test Sample

: Intra Pure Water for CE Sodium Hydroxide Solution

0.1N for HPCE

Sodium Hydroxide Solution 1.0N for HPCE

Organic Acids Buffer Solution pH 5.6

Organic Acids Test Sample

: Intra Pure Water for CE Sodium Hydroxide Solution

0.1N for HPCE

Sodium Hydroxide Solution

1.0N for HPCE Organic Acids Buffer Solution pH 5.6

Organic Acids Test Sample

-1.38

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Not available.

Not available.

Not available.

Not available.

Not available. Not available. Not available.

Not available.

Not available.

Not available.

NOL available.

Not applicable. Not applicable.

Not applicable.

Not applicable.

Not applicable.

# Section 10. Stability and reactivity

Reactivity

**Viscosity** 

Sodium Hydroxide Solution 0.1N for HPCE

Sodium Hydroxide Solution

1.0N for HPCE Organic Acids Buffer Solution pH 5.6

Organic Acids Test Sample

No specific test data related to reactivity available for this product or its ingredients.

No specific test data related to reactivity available for this product or its ingredients.

No specific test data related to reactivity available for this product or its ingredients.

No specific test data related to reactivity available for

this product or its ingredients.

No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** 

: Utra Pure Water for CE Sodium Hydroxide Solution

0.1N for HPCE Sodium Hydroxide Solution

1.0N for HPCE Organic Acids Buffer

Solution pH 5.6 Organic Acids Test Sample The product is stable. The product is stable.

The product is stable.

The product is stable.

The product is stable.

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# Section 10. Stability and reactivity

<b>Possibility</b>	of	hazardous
reactions		

: Vitra Pure Water for CE

Under normal conditions of storage and use,

Sodium Hydroxide Solution

0.1N for HPCE

Sodium Hydroxide Solution

1.0N for HPCE Organic Acids Buffer Solution pH 5.6

Organic Acids Test Sample

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

hazardous reactions will not occur.

Under normal conditions of storage and use,

hazardous reactions will not occur.

Under normal conditions of storage and use,

hazardous reactions will not occur.

Under normal conditions of storage and use,

hazardous reactions will not occur.

#### **Conditions to avoid**

✓ Itra Pure Water for CE Sodium Hydroxide Solution 0.1N for HPCE

Sodium Hydroxide Solution

1.0N for HPCE Organic Acids Buffer Solution pH 5.6

Organic Acids Test Sample

No specific data. No specific data.

No specific data.

No specific data.

No specific data.

#### Incompatible materials

: Vitra Pure Water for CE Sodium Hydroxide Solution 0.1N for HPCE

May react or be incompatible with oxidising materials. Reactive or incompatible with the following materials:

acids metals metals

Sodium Hydroxide Solution

1.0N for HPCE

Reactive or incompatible with the following materials:

acids metals

Organic Acids Buffer Solution pH 5.6

Organic Acids Test Sample

May react or be incompatible with oxidising materials.

May react or be incompatible with oxidising materials.

#### **Hazardous decomposition** products

: Vitra Pure Water for CE

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

Sodium Hydroxide Solution

0.1N for HPCE

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

produced.

Sodium Hydroxide Solution

1.0N for HPCE

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

produced.

Organic Acids Buffer Solution pH 5.6

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

produced.

Organic Acids Test Sample

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

produced.

# **Section 11. Toxicological information**

Information on toxicological effects

**Acute toxicity** 

Not available.

**Irritation/Corrosion** 

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# Section 11. Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
Sodium Hydroxide					
Solution 0.1N for HPCE					
Sodium hydroxide	Eyes - Severe irritant	Rabbit	-	1 %	-
-	Eyes - Severe irritant	Rabbit	-	0.5 minutes	-
				1 mg	
	Eyes - Severe irritant	Rabbit	-	24 hours 50	-
				ug	
	Skin - Severe irritant	Rabbit	-	24 hours 500	-
				mg	
Sodium Hydroxide					
Solution 1.0N for HPCE					
Sodium hydroxide	Eyes - Severe irritant	Rabbit	-	1 %	-
	Eyes - Severe irritant	Rabbit	-	0.5 minutes	-
				1 mg	
	Eyes - Severe irritant	Rabbit	-	24 hours 50	-
				ug	
	Skin - Severe irritant	Rabbit	-	24 hours 500	-
				mg	

#### **Sensitisation**

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)

Name	Category	Route of exposure	Target organs
Sodium Hydroxide Solution 0.1N for HPCE Sodium hydroxide	Category 3	-	Respiratory tract irritation
Sodium Hydroxide Solution 1.0N for HPCE Sodium hydroxide	Category 3	-	Respiratory tract irritation

#### Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Not available.

Information on likely routes of exposure

: Intra Pure Water for CE

Sodium Hydroxide Solution 0.1N for HPCE

Sodium Hydroxide Solution

1.0N for HPCE Organic Acids Buffer Solution pH 5.6

Organic Acids Test Sample

Not available.

Routes of entry anticipated: Oral, Dermal, Inhalation,

Eves.

Routes of entry anticipated: Oral, Dermal, Inhalation,

Eyes.

Not available.

Not available.

#### Potential acute health effects

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Inhalation

# Section 11. Toxicological information

**Eye contact** : Vitra Pure Water for CE No known significant effects or critical hazards. Sodium Hydroxide Solution Causes eye irritation. 0.1N for HPCE Sodium Hydroxide Solution Causes serious eye damage. 1.0N for HPCE Organic Acids Buffer No known significant effects or critical hazards. Solution pH 5.6 Organic Acids Test Sample No known significant effects or critical hazards. Inhalation Itra Pure Water for CE No known significant effects or critical hazards. Sodium Hydroxide Solution No known significant effects or critical hazards. 0.1N for HPCE Sodium Hydroxide Solution No known significant effects or critical hazards. 1.0N for HPCE Organic Acids Buffer No known significant effects or critical hazards. Solution pH 5.6 Organic Acids Test Sample No known significant effects or critical hazards. Skin contact Vitra Pure Water for CE No known significant effects or critical hazards. Sodium Hydroxide Solution No known significant effects or critical hazards. 0.1N for HPCE Sodium Hydroxide Solution Causes severe burns. 1.0N for HPCE Organic Acids Buffer No known significant effects or critical hazards. Solution pH 5.6 Organic Acids Test Sample No known significant effects or critical hazards. Ingestion No known significant effects or critical hazards. Sodium Hydroxide Solution No known significant effects or critical hazards. 0.1N for HPCE Sodium Hydroxide Solution Severely corrosive to the digestive tract. Causes 1.0N for HPCE severe burns. Organic Acids Buffer No known significant effects or critical hazards. Solution pH 5.6 Organic Acids Test Sample No known significant effects or critical hazards. Symptoms related to the physical, chemical and toxicological characteristics : Vitra Pure Water for CE **Eye contact** No specific data. Sodium Hydroxide Solution Adverse symptoms may include the following: 0.1N for HPCE irritation

watering redness

Sodium Hydroxide Solution 1.0N for HPCE

Adverse symptoms may include the following:

watering redness

Organic Acids Buffer Solution pH 5.6

No specific data.

Organic Acids Test Sample No specific data. : Vitra Pure Water for CE No specific data. Sodium Hydroxide Solution No specific data.

0.1N for HPCE Sodium Hydroxide Solution

No specific data.

1.0N for HPCE

No specific data.

Organic Acids Buffer Solution pH 5.6

No specific data.

Organic Acids Test Sample

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# Section 11. Toxicological information

: Vitra Pure Water for CE Skin contact No specific data. Sodium Hydroxide Solution No specific data.

0.1N for HPCE

Sodium Hydroxide Solution

1.0N for HPCE

Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur No specific data.

No specific data.

No specific data.

No specific data.

Organic Acids Buffer Solution pH 5.6

Organic Acids Test Sample : Vitra Pure Water for CE

Sodium Hydroxide Solution 0.1N for HPCE

Sodium Hydroxide Solution

1.0N for HPCE

Adverse symptoms may include the following:

Organic Acids Buffer Solution pH 5.6

Organic Acids Test Sample

stomach pains No specific data.

No specific data.

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

**Short term exposure** 

**Potential immediate** 

effects

Ingestion

: Not available.

Potential delayed effects

: Not available.

Long term exposure

**Potential immediate** 

effects

: Not available.

Potential delayed effects : Not available.

Potential chronic health effects

: Vitra Pure Water for CE General

Sodium Hydroxide Solution

0.1N for HPCE

Sodium Hydroxide Solution

1.0N for HPCE Organic Acids Buffer

Solution pH 5.6

Organic Acids Test Sample

Itra Pure Water for CE Carcinogenicity

Sodium Hydroxide Solution

0.1N for HPCE

Sodium Hydroxide Solution

1.0N for HPCE Organic Acids Buffer Solution pH 5.6

Organic Acids Test Sample

Mutagenicity 

Sodium Hydroxide Solution

0.1N for HPCE

Sodium Hydroxide Solution

1.0N for HPCE Organic Acids Buffer Solution pH 5.6

Organic Acids Test Sample

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

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

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

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

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# **Section 11. Toxicological information**

**Reproductive toxicity** 

: Vitra Pure Water for CE Sodium Hydroxide Solution 0.1N for HPCE Sodium Hydroxide Solution

1.0N for HPCE Organic Acids Buffer Solution pH 5.6

Organic Acids Test Sample

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

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

# Numerical measures of toxicity Acute toxicity estimates

N/A

# **Section 12. Ecological information**

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
Sodium Hydroxide Solution 0.1N for HPCE			
Sodium hydroxide	Acute EC50 40.38 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 125 ppm Fresh water	Fish - Gambusia affinis - Adult	96 hours
Sodium Hydroxide Solution 1.0N for HPCE			
Sodium hydroxide	Acute EC50 40.38 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 125 ppm Fresh water	Fish - <i>Gambusia affinis</i> - Adult	96 hours

#### Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Vitra Pure Water for CE water	-	-	Readily
Sodium Hydroxide Solution 0.1N for HPCE Sodium hydroxide	-	-	Readily
Sodium Hydroxide Solution 1.0N for HPCE Sodium hydroxide	-	-	Readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
<b></b> Itra Pure Water for CE			
water	-1.38	-	Low

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

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

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## 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	₩	₩ .
Environmental hazards	No.	No.	No.

**Additional information** 

ADG : <u>Hazchem code</u> 2Z

Special provisions 251, 340

IMDG : <u>Emergency schedules</u> F-A, \_S-P\_

Special provisions 251, 340

**IATA** : **Quantity limitation** Passenger and Cargo Aircraft: 10 kg. Packaging instructions:

960. Cargo Aircraft Only: 10 kg. Packaging instructions: 960. Limited Quantities -

Passenger Aircraft: 1 kg. Packaging instructions: Y960.

Special provisions A44, A163

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 : Not available.

to IMO instruments

# Section 15. Regulatory information

Standard for the Uniform Scheduling of Medicines and Poisons

5

Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

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**Organic Acids Solutions Kit** 

# Section 15. Regulatory information

#### **Montreal Protocol**

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 : All components are listed or exempted.

New Zealand : All components are listed or exempted.

United States : All components are active or exempted.

## Section 16. Any other relevant information

**History** 

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**Key to abbreviations** : ADG = Australian Dangerous Goods

ADR = The European Agreement concerning the International Carriage of

Dangerous Goods by Road 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)

N/A = Not available

SUSMP = Standard Uniform Schedule of Medicine and Poisons

**UN = United Nations** 

#### Procedure used to derive the classification

Classification	Justification
Sodium Hydroxide Solution 0.1N for HPCE CORROSIVE TO METALS - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2B	Expert judgment Expert judgment
Sodium Hydroxide Solution 1.0N for HPCE CORROSIVE TO METALS - Category 1 SKIN CORROSION/IRRITATION - Category 1B SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1	Expert judgment Expert judgment On basis of test data

<sup>▼</sup> Indicates information that has changed from previously issued version.

#### **Notice to reader**

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