SAFETY DATA SHEET
Ultra Pure Water for CE, Part Number 5062-8578

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

1.1 Product identifier
- **Product name**: Ultra Pure Water for CE, Part Number 5062-8578
- **EC number**: 231-791-2
- **CAS number**: 7732-18-5
- **Part no.**: 5062-8578
- **Chemical formula**: H₂O

1.2 Relevant identified uses of the substance or mixture and uses advised against
- **Identified uses**: Reagents and Standards for Analytical Chemistry Laboratory Use
  - 500 ml
- **Uses advised against**: None known.

1.3 Details of the supplier of the safety data sheet
- **Agilent Technologies LDA UK Ltd.**
  - 5500 Lakeside Cheadle Royal Business Park,
  - Cheadle, Cheshire, SK8 3GR
  - United Kingdom
  - Tel: +44 (0) 345 712 5292
  - 0800 603 1000
- **e-mail address of person responsible for this SDS**: pdl-msds_author@agilent.com

1.4 Emergency telephone number
- **Emergency telephone number (with hours of operation)**: CHEMTREC®: +(44)-870-8200418

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
- **Product definition**: Mono-constituent substance
- **Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]**: Not classified.

See Section 16 for the full text of the H statements declared above.
See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements
- **Signal word**: No signal word.
- **Hazard statements**: No known significant effects or critical hazards.
- **Precautionary statements**:
  - Prevention: Not applicable.
  - Response: Not applicable.
  - Storage: Not applicable.
  - Disposal: Not applicable.
- **Supplemental label elements**: Not applicable.
SECTION 2: Hazards identification

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

- **Special packaging requirements**
  - Containers to be fitted with child-resistant fastenings: Not applicable.
  - Tactile warning of danger: Not applicable.

- **2.3 Other hazards**
  - Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
    - PBT: Not applicable (Inorganic)
    - vP: Not applicable (Inorganic)
    - vB: Not applicable (Inorganic)

  - Other hazards which do not result in classification: None known.

SECTION 3: Composition/information on ingredients

- **3.1 Substances**
  - Mono-constituent substance

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Identifiers</th>
<th>%</th>
<th>Classification</th>
<th>Type</th>
</tr>
</thead>
</table>

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

**Type**

- [1] Constituent

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

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
  - **Eye contact**: 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**: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
  - **Skin contact**: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
  - **Ingestion**: 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.

  - **Protection of first-aiders**: No action shall be taken involving any personal risk or without suitable training.

- **4.2 Most important symptoms and effects, both acute and delayed**
  - **Over-exposure signs/symptoms**

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SECTION 4: First aid measures

**Eye contact** : No specific data.
**Inhalation** : No specific data.
**Skin contact** : No specific data.
**Ingestion** : No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

**Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments** : No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

**Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media** : None known.

5.2 Special hazards arising from the substance or mixture

**Hazards from the substance or mixture** : In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous combustion products** : No specific data.

5.3 Advice for firefighters

**Special protective actions for fire-fighters** : 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** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** : 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** : 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".

6.2 Environmental precautions : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

**Methods for cleaning up** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

6.4 Reference to other sections : See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

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

Advice on general occupational hygiene: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

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

7.3 Specific end use(s)

Recommendations: Industrial applications, Professional applications.

Industrial sector specific solutions: Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits: No exposure limit value known.

Biological exposure indices: No exposure indices known.

Recommended monitoring procedures: Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs: No DNELs/DMELs available.

PNECs: No PNECs available

8.2 Exposure controls

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

Individual protection measures

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

Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
SECTION 8: Exposure controls/personal protection

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

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

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

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

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

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

**Appearance**

- **Physical state**: Liquid.
- **Colour**: Clear. / Colourless.
- **Odour**: Odourless.
- **Odour threshold**: Not available.
- **Melting point/freezing point**: 0°C
- **Initial boiling point and boiling range**: 100°C
- **Flammability**: Not applicable.
- **Upper/lower flammability or explosive limits**: Not available.
- **Flash point**: Not available.
- **Auto-ignition temperature**: Not applicable.
- **Decomposition temperature**: Not available.
- **pH**: 7
- **Viscosity**: Not available.
- **Solubility(ies)**:

<table>
<thead>
<tr>
<th>Media</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>Soluble</td>
</tr>
</tbody>
</table>

- **Miscible with water**: Yes.
- **Partition coefficient: n-octanol/water**: Not applicable.
- **Vapour pressure**: 3.2 kPa (23.8 mm Hg) [room temperature]
  12.3 kPa (92.258 mm Hg) [50°C]
- **Evaporation rate**: Not available.
- **Relative density**: 1
- **Density**: 1 g/cm³ [20°C]
- **Vapour density**: 0.62 [Air = 1]
- **Explosive properties**: Not available.
SECTION 9: Physical and chemical properties

Oxidising properties
Not available.

Particle characteristics

Median particle size
Not applicable.

9.2 Other information
No additional information.

SECTION 10: Stability and reactivity

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

10.2 Chemical stability
The product is stable.

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

10.4 Conditions to avoid
No specific data.

10.5 Incompatible materials
May react or be incompatible with oxidising materials.
Reactive or incompatible with the following materials: reducing materials, metals, acids and alkalis.

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

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
Acute toxicity estimates
N/A

Irritation/Corrosion
Conclusion/Summary
Not available.

Sensitiser
Conclusion/Summary
Not available.

Mutagenicity
Conclusion/Summary
Not available.

Carcinogenicity
Conclusion/Summary
Not available.

Reproductive toxicity
Conclusion/Summary
Not available.

Teratogenicity
Conclusion/Summary
Not available.

Specific target organ toxicity (single exposure)
Not available.

Specific target organ toxicity (repeated exposure)
Not available.

Aspiration hazard
Not available.
SECTION 11: Toxicological information

### Potential acute health effects
- **Inhalation**: No known significant effects or critical hazards.
- **Ingestion**: No known significant effects or critical hazards.
- **Skin contact**: No known significant effects or critical hazards.
- **Eye contact**: No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics
- **Inhalation**: No specific data.
- **Ingestion**: No specific data.
- **Skin contact**: No specific data.
- **Eye contact**: No specific data.

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

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

#### Long term exposure
- **Potential immediate effects**: Not available.
- **Potential delayed effects**: Not available.

#### Potential chronic health effects
- **General**: No known significant effects or critical hazards.
- **Carcinogenicity**: No known significant effects or critical hazards.
- **Mutagenicity**: No known significant effects or critical hazards.
- **Reproductive toxicity**: No known significant effects or critical hazards.

SECTION 12: Ecological information

### 12.1 Toxicity
- **Conclusion/Summary**: Not available.

### 12.2 Persistence and degradability

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Aquatic half-life</th>
<th>Photolysis</th>
<th>Biodegradability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>-</td>
<td>-</td>
<td>Readily</td>
</tr>
</tbody>
</table>

### 12.3 Bioaccumulative potential
Not available.

### 12.4 Mobility in soil
- **Soil/water partition coefficient (K<sub>oc</sub>)**: Not available.
- **Mobility**: Not available.

### 12.5 Results of PBT and vPvB assessment
SECTION 12: Ecological information

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>PBT</th>
<th>P</th>
<th>B</th>
<th>T</th>
<th>vPvB</th>
<th>vP</th>
<th>vB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>Not applicable (Inorganic)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>Not applicable (Inorganic)</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

**Product**

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

**Hazardous waste**: Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

**Packaging**

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

Special precautions: This material and its container must be disposed of in a safe way. 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

### ADR/RID | IMDG | IATA
---|---|---
14.2 UN proper shipping name | - | - | - |
14.3 Transport hazard class(es) | - | - | - |
14.4 Packing group | - | - | - |
14.5 Environmental hazards | No. | No. | No. |

**Additional information**

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

14.7 Transport in bulk according to IMO instruments: Not available.

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SECTION 15: Regulatory information

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

UK (GB)/REACH

Annex XIV - List of substances subject to authorisation

Annex XIV
None of the components are listed.

Substances of very high concern
None of the components are listed.

Ozone depleting substances
Not listed.

Prior Informed Consent (PIC)
Not listed.

Persistent Organic Pollutants
Not listed.

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

Label: Not applicable.

Seveso Directive
This product is not controlled under the Seveso Directive.

EU regulations

Industrial emissions (integrated pollution prevention and control) - Air
Not listed

Industrial emissions (integrated pollution prevention and control) - Water
Not listed

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

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals
Not listed.

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: This material is listed or exempted.
Canada: This material is listed or exempted.
China: This material is listed or exempted.

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SECTION 15: Regulatory information

**Eurasian Economic Union**: Russian Federation inventory: This material is listed or exempted.

**Japan**
- Japan inventory (CSCL): This material is listed or exempted.
- Japan inventory (ISHL): This material is listed or exempted.

**New Zealand**: This material is listed or exempted.

**Philippines**: This material is listed or exempted.

**Republic of Korea**: This material is listed or exempted.

**Taiwan**: This material is listed or exempted.

**Thailand**: This material is listed or exempted.

**Turkey**: This material is listed or exempted.

**United States**: This material is active or exempted.

**Viet Nam**: This material is listed or exempted.

SECTION 16: Other information

- Indicates information that has changed from previously issued version.

**Abbreviations and acronyms**
- ATE = Acute Toxicity Estimate
- CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
- DMEL = Derived Minimal Effect Level
- DNEL = Derived No Effect Level
- EUH statement = CLP-specific Hazard statement
- N/A = Not available
- PBT = Persistent, Bioaccumulative and Toxic
- PNEC = Predicted No Effect Concentration
- RRN = REACH Registration Number
- vPvB = Very Persistent and Very Bioaccumulative

**Procedure used to derive the classification**

Not classified.

**Full text of abbreviated H statements**

Not applicable.

**Full text of classifications**

Not applicable.

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