

SECTION 1 – IDENTIFICATION

Product Identifier: Sterile Deionized Water
Biotechnology Grade

Catalogue Number: 4100

Other means of identification: Not available

Recommended use of the chemical and restrictions on use:
For R&D use only. Not for pharmaceutical, household or other uses.

Supplier Information:

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Emergency phone number:

Monday – Friday, 8:00 a.m. to 6:00 p.m.
+65 6775 7318 (Singapore)
+603 8943 3252 (Malaysia)

SECTION 2 – HAZARDS IDENTIFICATION

Not a dangerous substance or mixture according to the Globally Harmonised System (GHS).

Other hazards

Data not available.

SECTION 3 – COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical Identity:	Water
Synonyms:	H ₂ O
Molecular Formula:	H ₂ O
Molecular Weight:	18.0 g/mol
CAS No.:	7732-18-5
EC No.:	231-791-2

SECTION 4 – FIRST-AID MEASURES

Eye Contact

Flush eyes with water as a precaution.

Skin Contact

Immediately wash skin thoroughly with soap and copious amounts of water.

Inhalation

Remove to fresh air. If not breathing, give artificial respiration or if breathing is difficult, give oxygen.

Ingestion

Never give anything by mouth to an unconscious person. Rinse mouth with water.

Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Indication of immediate medical attention and special treatment needed

Data not available.

SECTION 5 – FIRE-FIGHTING MEASURES

Extinguishing Media

Use water spray, CO₂, dry chemical powder or alcohol-resistant foam.

Special hazards arising from the substance or mixture

Data not available.

Special Fire-fighting Procedures

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Further information

Product itself does not burn.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions

Data not available.

Environmental precautions

Data not available.

Methods and materials for containment and cleaning up

Wipe up with absorbent material and dispose off as general waste.

SECTION 7 – HANDLING AND STORAGE

Precautions for safe handling

No special handling methods required.

Conditions for safe storage, including any incompatibilities

No special storage condition required.

SECTION 8 – EXPOSURE CONTROLS/ PERSONAL PROTECTION

Occupational Exposure Limits

We are not aware of any national exposure limit.

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice.

Eye/ Face Protection

Safety glasses with side-shields tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU). Where contact with the eyes is likely, use chemical goggles.

Skin/ Hand Protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body protection

No special protective equipment required.

Respiratory Protection

No special protective equipment required.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

a)	Appearance	Clear colourless solution
b)	Odour	Odourless
c)	Odour Threshold	Not available
d)	pH (25 °C)	5.0 – 7.0
e)	Melting/freezing point	0 °C
f)	Initial boiling point and boiling range	100 °C
g)	Flash point	Not applicable
h)	Evaporation rate	Not available
i)	Flammability (solid, gas)	Not available
j)	Upper/lower flammability or explosive limits	Not available
k)	Vapour pressure (mm Hg)	Not available
l)	Vapour density	Not available
m)	Relative density	1.000 g/cm ³
n)	Solubility (ies)	Completely miscible
o)	Partition coefficient: n-octanol/water	Not available

- p) **Autoignition temperature** Not available
- q) **Decomposition temperature** Not available
- r) **Viscosity** Not available

SECTION 10 – STABILITY AND REACTIVITY

Reactivity

Data not available.

Chemical stability:

Stable.

Possibility of hazardous reactions

Data not available.

Conditions to avoid

Data not available.

Incompatible materials

Data not available.

Hazardous decomposition products

Data not available.

SECTION 11 – TOXICOLOGICAL INFORMATION

Acute Toxicity

Data not available.

Skin Corrosion/Irritation

Data not available.

Serious Eye Damage/Eye Irritation

Data not available.

Respiratory or skin sensitization

Data not available.

Germ cell mutagenicity

Data not available.

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

Data not available.

Specific target organ toxicity - single exposure

Data not available.

Specific target organ toxicity - repeated exposure

Data not available.

Aspiration hazard

Data not available.

Likely routes of exposure

Absorbed through skin. Eye contact. Inhalation.

Symptoms related to physical, chemical and toxicological characteristics

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Delayed and immediate effects and also chronic effects from short and long term exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Numeric measures of toxicity

Data not available.

Interactive effects

Data not available.

Other information

RTECS: ZC0110000

SECTION 12 – ECOLOGICAL INFORMATION**Toxicity**

Data not available.

Persistence and degradability

Not applicable

Bioaccumulative potential

Data not available.

Mobility in soil

Data not available.

Other adverse effect

Data not available.

SECTION 13 – DISPOSAL CONSIDERATIONS**Product**

Product may be disposed off as general waste.

Contaminated packaging

Dispose off as unused product.

SECTION 14 – TRANSPORT INFORMATION**UN Number**

ADR/RID: -

IMDG: -

IATA-DGR: -

