

# Safety Data Sheet

#90035519 · Full 16-section SDS

According to Regulation (EC) No 1907/2006

According to Regulation (EC) No 2020/878

| PRODUCT      | CAS NUMBER | FORMULA | VERSION | REVISION DATE |
|--------------|------------|---------|---------|---------------|
| Type I water | 7732-18-5  | H2O     | 10      | 20 Jul 2026   |

## SECTION 1

### Identification

|                                |                                                                                                                                  |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Product name                   | De-Ionised Distilled Water                                                                                                       |
| CAS number                     | 7732-18-5                                                                                                                        |
| Chemical formula               | H2O                                                                                                                              |
| Molecular weight               | 18.02                                                                                                                            |
| SMILES                         | O                                                                                                                                |
| EC / EINECS number             | 231-791-2                                                                                                                        |
| Recommended use & restrictions | For research and development. Laboratory chemicals. Manufacture of substances.<br>Not suitable for human or veterinary purposes. |
| Emergency telephone            | 0344 892 0111 — National Poisons Information Service (NPIS) (United Kingdom — for healthcare professionals (via TOXBASE))        |

## SECTION 2

## Hazard identification



## WARNING

| CODE                                            | HAZARD STATEMENT                                                                                                                                                                                                                                                                         |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| H315                                            | Causes skin irritation                                                                                                                                                                                                                                                                   |
| H319                                            | Causes serious eye irritation                                                                                                                                                                                                                                                            |
| H335                                            | May cause respiratory irritation                                                                                                                                                                                                                                                         |
| CODE                                            | PRECAUTIONARY STATEMENT                                                                                                                                                                                                                                                                  |
| P261                                            | Avoid breathing dust/fume/gas/mist/vapours/spray                                                                                                                                                                                                                                         |
| P264                                            | Wash thoroughly after handling                                                                                                                                                                                                                                                           |
| P271                                            | Use only outdoors or in a well-ventilated area                                                                                                                                                                                                                                           |
| P280                                            | Wear protective gloves/protective clothing/eye protection/face protection                                                                                                                                                                                                                |
| P302+P352                                       | IF ON SKIN: Wash with soap and water                                                                                                                                                                                                                                                     |
| P304+P340                                       | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing                                                                                                                                                                                          |
| P305+P351+P338                                  | IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do, continue rinsing                                                                                                                                                         |
| P321                                            | Specific treatment (see supplemental first aid instructions on this label)                                                                                                                                                                                                               |
| P403+P233                                       | Store in a well-ventilated place. Keep container tightly closed                                                                                                                                                                                                                          |
| P405                                            | Store locked up                                                                                                                                                                                                                                                                          |
| P501                                            | Dispose of contents/container to an approved waste disposal plant                                                                                                                                                                                                                        |
| Other hazards (e.g. PBT / vPvB, not classified) | Does not meet PBT or vPvB criteria under REACH Annex XIII. Does not contain components considered to have endocrine-disrupting properties. Does not contain components considered to be persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB). |

## SECTION 3

## Composition / information on ingredients

Purity / concentration ~100%

Impurities / stabilising additives *Not applicable*

#### SECTION 4

### First-aid measures

|                                                   |                                                                                                                       |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation</b>                                 | Move to fresh air if inhaled.<br>Get medical attention if any discomfort continues.                                   |
| <b>Skin contact</b>                               | Rinse skin with water.<br>If skin irritation or rash occurs: Get medical advice/attention.                            |
| <b>Eye contact</b>                                | Remove contact lenses if present. Rinse eyes with water.<br>If eye irritation persists: Get medical advice/attention. |
| <b>Ingestion</b>                                  | Rinse mouth.<br>Get medical advice/attention if you feel unwell.                                                      |
| <b>Symptoms / effects &amp; medical attention</b> | Treat symptomatically.                                                                                                |

#### SECTION 5

### Fire-fighting measures

|                                       |                                                                                                                                                            |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Suitable extinguishing media</b>   | Use measures appropriate to local circumstances                                                                                                            |
| <b>Unsuitable extinguishing media</b> | No specific firefighting procedure given                                                                                                                   |
| <b>Special hazards</b>                | Specific hazards: Not combustible.<br>Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.                     |
| <b>Advice for firefighters</b>        | Evacuate area. Avoid breathing gas, fume, vapours or spray. Cool containers exposed to heat with water spray and remove container, if no risk is involved. |

#### SECTION 6

### Accidental release measures

|                                           |                                                                                                                         |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| <b>Personal precautions &amp; PPE</b>     | Avoid breathing dust/fume/gas/mist/vapours/spray. Provide adequate ventilation. For personal protection, see section 8. |
| <b>Environmental precautions</b>          | Avoid discharge into drains, water courses or onto the ground.                                                          |
| <b>Containment &amp; clean-up methods</b> | Absorb spillage with a suitable absorbent material.                                                                     |

*For specific precautions, see Section 8 and Section 13.*

## SECTION 7

**Handling & storage**

|                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage temperature</b>                             | Ambient                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Precautions for safe handling</b>                   | <p>Wear protective clothing, gloves, eye and face protection. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin, eyes or clothing.</p> <p>Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection. Wash hands before breaks and immediately after handling the product</p> |
| <b>Conditions for safe storage (incompatibilities)</b> | Stable under the prescribed storage conditions. Store in a dry place. Store in a closed container.                                                                                                                                                                                                                                                                                                                    |

## SECTION 8

**Exposure controls / personal protection**

|                                                 |                                                                                                                                                                                                                                                                                                                                |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Occupational exposure limits (OEL / WEL)</b> | <i>Not applicable</i>                                                                                                                                                                                                                                                                                                          |
| <b>DNEC/PNEC data</b>                           | <i>Not applicable</i>                                                                                                                                                                                                                                                                                                          |
| <b>Eye / face protection</b>                    | <p>Safety glasses</p> <p>Wear eye/face protection as recommended. All eye/face protection should comply with EN ISO 16321-1:2022.</p>                                                                                                                                                                                          |
| <b>Skin / hand protection</b>                   | Nitrile gloves Thickness: 0.11mm. Breakthrough time: 480mins.                                                                                                                                                                                                                                                                  |
| <b>Respiratory protection</b>                   | <p>Not required</p> <p>Keep self-contained breathing apparatus readily available for emergency use. Provide adequate ventilation. If ventilation is insufficient, suitable respiratory protection must be provided. Respiratory equipment: Reusable Air-Purifying Respirator (APR). Filter type: ABEK. Standard: EN 14387.</p> |

## SECTION 9

**Physical & chemical properties**

|                                    |                                                |
|------------------------------------|------------------------------------------------|
| Density (g/mL)                     | 1 g/mL<br>DERIVED FROM: LITERATURE             |
| Flash point                        | Not applicable                                 |
| Acidity                            | Neutral<br>DERIVED FROM: LITERATURE            |
| Appearance / physical state        | Liquid<br>DERIVED FROM: LITERATURE             |
| Colour                             | Colourless.<br>DERIVED FROM: LITERATURE        |
| Odour                              | Odourless<br>DERIVED FROM: LITERATURE          |
| Melting / freezing point           | 0 °C<br>DERIVED FROM: LITERATURE               |
| Boiling point                      | 100 °C<br>DERIVED FROM: LITERATURE             |
| Solubility (water)                 | Not applicable                                 |
| pH                                 | 6.0 -7.0<br>DERIVED FROM: LITERATURE           |
| Vapour pressure                    | No data available.<br>DERIVED FROM: LITERATURE |
| Partition coefficient (log Pow)    | No data available.<br>DERIVED FROM: LITERATURE |
| Auto-ignition / decomposition temp | No data available.<br>DERIVED FROM: LITERATURE |

## SECTION 10

**Stability & reactivity**

|                                  |                                                                                                                                                                                              |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chemical stability / reactivity  | There are no known reactivity hazards associated with this product.<br>Stable under the prescribed storage conditions.<br>Violent reactions possible with: Known reaction partners of water. |
| Conditions to avoid              | No data available                                                                                                                                                                            |
| Incompatible materials           | Strong oxidising agents.                                                                                                                                                                     |
| Hazardous decomposition products | See section 5.                                                                                                                                                                               |

## SECTION 11

**Toxicological information**

|                                          |                                                                                  |
|------------------------------------------|----------------------------------------------------------------------------------|
| <b>Acute toxicity (LD50 / LC50)</b>      | LD50 >90,000 mg/kg Oral (Rat) for Distilled Water (CAS 7732-18-5 / EC 686-299-4) |
| <b>Skin corrosion / irritation</b>       | <i>No data available</i>                                                         |
| <b>Eye corrosion / irritation</b>        | <i>No data available</i>                                                         |
| <b>Respiratory / skin sensitisation</b>  | <i>No data available</i>                                                         |
| <b>Carcinogenicity</b>                   | <i>No data available</i>                                                         |
| <b>Mutagenicity</b>                      | <i>Not applicable</i>                                                            |
| <b>Reproductive toxicity</b>             | <i>Not applicable</i>                                                            |
| <b>STOT (single / repeated exposure)</b> | <i>No data available</i>                                                         |
| <b>Aspiration hazard</b>                 | Based on available data, the classification criteria are not met.                |
| <b>Endocrine disruptors</b>              | This product does not contain any known or suspected endocrine disruptors.       |

## SECTION 12

**Ecological information**

|                                        |                                                                                                                                                       |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Aquatic toxicity</b>                | <i>No data available</i>                                                                                                                              |
| <b>Persistence &amp; degradability</b> | <i>No data available</i>                                                                                                                              |
| <b>Bioaccumulative potential</b>       | <i>No data available</i>                                                                                                                              |
| <b>Mobility in soil</b>                | <i>No data available</i>                                                                                                                              |
| <b>PBT / vPvB assessment</b>           | This substance/mixture does not meet the PBT criteria of REACH Annex XIII. This substance/mixture does not meet the vPvB criteria of REACH Annex XIII |

## SECTION 13

**Disposal considerations**

|                                           |                                                          |
|-------------------------------------------|----------------------------------------------------------|
| <b>Waste treatment / disposal methods</b> | Dispose of in accordance with local/national regulations |
|-------------------------------------------|----------------------------------------------------------|

#### SECTION 14

### Transport information

UN number *Not applicable*

Proper shipping name *Not applicable*

Class *Not applicable*

Packing group *Not applicable*

Transport category *Not applicable*

Tunnel code *Not applicable*

Packing instruction (ADR) *Not applicable*

Packing instruction (IMDG) *Not applicable*

Environmental hazards *Not applicable*

Special precautions for user *Not applicable*

#### SECTION 15

### Regulatory information

REACH code Y113

UFI code *Not applicable*

ECHA notification *Not applicable*

Chemical safety assessment carried out? *Not applicable*

#### SECTION 16

### Other information

Revision notes / other information *Not applicable*

This Safety Data Sheet was generated automatically from the data Molekula holds against this product, in the 16-section GHS/CLP format. Fields shown as "No data available" carry no recorded value; fields shown as "Not applicable" were assessed as not relevant to this substance. For queries, contact Molekula at [info@molekula.com](mailto:info@molekula.com).