

ASES CHEMICAL WORKS

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MATERIAL SAFETY DATA SHEET

Product Name: Deionized Water 0 TDS (DM Water) / Distilled Water Substitute

SDS No.: SDS/DIW/2026-01 Revision Date: 03-Sep-2026 Version: 1.0

SECTION 1: IDENTIFICATION

Product Name	Deionized Water 0 TDS (DM Water) / Distilled Water Substitute
Synonyms	DM Water, DI Water, Demineralized Water
CAS No.	7732-18-5
Chemical Formula	H ₂ O
Recommended Use	Industrial process water, laboratory use, cosmetic/personal care formulation base
Packager	ASES Chemical Works, Brahm Bagh, Jalori Gate, Jodhpur-342001, Rajasthan, India
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SECTION 2: HAZARDS IDENTIFICATION

GHS Classification: Not classified as a hazardous substance or mixture under GHS.

Label Elements: No hazard pictograms, signal word, or hazard statements required.

Other Hazards: None known. Deionized water is chemically inert under normal conditions of use and storage.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Component	Water (Deionized)
CAS No.	7732-18-5
Concentration	100%
TDS	0 ppm
Conductivity (25°C)	0 µS/cm

SECTION 4: FIRST AID MEASURES

- Inhalation: Not applicable under normal use; no adverse effects expected.
- Skin Contact: No hazard expected. Wash with water if desired.
- Eye Contact: No hazard expected. Rinse with water if irritation occurs.
- Ingestion: Not harmful. No specific first aid measures required.

SECTION 5: FIRE-FIGHTING MEASURES

- Suitable Extinguishing Media: Not flammable or combustible; use extinguishing media suitable for the surrounding fire.
- Special Hazards: None.
- Protective Equipment: Standard fire-fighting protective equipment as required for the surrounding fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

- Personal Precautions: No special precautions required. Floors may become slippery; use caution.
- Environmental Precautions: No adverse environmental effects expected.
- Methods for Containment/Cleanup: Mop up or wipe with absorbent material. May be flushed to drain in accordance with local regulations.

SECTION 7: HANDLING AND STORAGE

- Handling: No special handling precautions required. Handle using good industrial hygiene practice.
- Storage: Store in tightly closed, clean containers in a cool, dry place away from direct sunlight and contamination sources to maintain 0 TDS / 0 µS/cm specification.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

- Occupational Exposure Limits: Not established (not a hazardous substance).
- Engineering Controls: None required.
- Personal Protective Equipment: None required for normal use. Standard industrial hygiene practices recommended.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, colorless liquid
Odour	Odourless
pH (25°C)	6.5 - 7.5 (typical 6.67)
Density (25°C)	0.998 g/mL
Boiling Point	100°C (212°F)
Freezing Point	0°C (32°F)
Solubility	Miscible in all proportions
TDS	0 ppm
Conductivity (25°C)	0 µS/cm
Flash Point	Not applicable

SECTION 10: STABILITY AND REACTIVITY

- Chemical Stability: Stable under normal conditions of storage and use.
- Conditions to Avoid: Contamination with dust, ionic species, or microbial growth during prolonged open storage.
- Incompatible Materials: Reacts with strong oxidizers, alkali metals, and reactive metals producing heat/hydrogen gas.
- Hazardous Decomposition Products: None under normal conditions.

SECTION 11: TOXICOLOGICAL INFORMATION

- Acute Toxicity: Not classified as toxic. Not expected to cause adverse health effects under normal use.
- Skin/Eye Irritation: Not irritating.
- Sensitization, Carcinogenicity, Mutagenicity, Reproductive Toxicity: Not classified / not applicable.

SECTION 12: ECOLOGICAL INFORMATION

- Ecotoxicity: Not expected to be harmful to aquatic organisms.
- Persistence/Degradability: Not applicable (naturally occurring substance).
- Bioaccumulative Potential: Not applicable.

SECTION 13: DISPOSAL CONSIDERATIONS

- Disposal Method: May be discharged to drain or disposed of in accordance with local, state, and national regulations. No special precautions required.

SECTION 14: TRANSPORT INFORMATION

- UN Number: Not regulated
- Proper Shipping Name: Not applicable (non-hazardous)
- Transport Hazard Class: Not applicable
- Packing Group: Not applicable
- Environmental Hazards: None

SECTION 15: REGULATORY INFORMATION

- Not classified as a hazardous chemical/substance under applicable Indian (Manufacture, Storage and Import of Hazardous Chemical Rules) or international (GHS/OSHA) regulations.

SECTION 16: OTHER INFORMATION

This Safety Data Sheet is provided for information purposes only and is based on data believed to be accurate as of the revision date. ASES Chemical Works makes no warranty, express or implied, regarding the accuracy or completeness of this information and assumes no liability for its use. Users should independently determine the suitability of the product for their specific application.

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