SAFETY DATA SHEET (SDS)

DEIONISED WATER (DEMINERALISED WATER)

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Prepared in accordance with the Work Health and Safety Regulations (Hazardous Chemicals) and the Globally Harmonised System (GHS) as adopted by Safe Work Australia.

SECTION 1: IDENTIFICATION

Product Identifier
Product Name Deionised Water (Demineralised Water)
Synonyms

- DI Water
- DM Water
- Purified Water
- Battery Water
- High Purity Water

Chemical Name Water
CAS Number 7732-18-5
Recommended Uses

- Coolant mixing and dilution
- Chemical manufacturing
- Process water applications
- AdBlue®/DEF manufacturing
- Equipment cleaning and rinsing
- Battery maintenance and filling
- Laboratory applications
- Industrial wash-down and process operations

Supplier Details
Acemate Pty Ltd trading as Bauly Chemicals
ABN: 34 133 894 112
Address: 49 Watts Street Box Hill VIC 3128
Telephone: +61-3-9899 9526
Email: supply@bauly.com.au
Website: www.bauly.com.au
Emergency Telephone
Poisons Information Centre (Australia)
13 11 26 (24 Hours)

SECTION 2: HAZARD IDENTIFICATION

Classification
This product is **not classified as hazardous** according to the criteria of Safe Work Australia.
Dangerous Goods Classification
This product is **not classified as Dangerous Goods** according to the Australian Dangerous Goods (ADG) Code.
Poisons Schedule
Not Applicable.
Signal Word
Not Applicable.
Hazard Statements
Not Applicable.
Precautionary Statements
Not Applicable.
Other Hazards
Large spills may create slippery surfaces and present a slip hazard.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS Number	Concentration
Water	7732-18-5	>99.9%

Contains no hazardous ingredients.

SECTION 4: FIRST AID MEASURES

Eye Contact
If product enters the eyes:
- Flush immediately with clean water.
- Continue rinsing for several minutes.
- Seek medical attention if irritation persists.

Skin Contact
If skin or hair contact occurs:
- Wash affected areas with water.
- Use soap if desired.
- Seek medical attention if irritation develops.

Inhalation
If mists or aerosols are inhaled:
- Remove affected person to fresh air.
- Keep at rest.
- Seek medical attention if symptoms persist.

Ingestion
- Rinse mouth.
- Give water to drink.
- Medical treatment is generally not required.
- If discomfort occurs, contact a doctor or Poisons Information Centre.

Advice to Physicians
Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

Suitable Extinguishing Media
There are no restrictions on the extinguishing media that may be used.
Use extinguishing media appropriate to the surrounding fire.
Specific Hazards
- Product is non-combustible.
- Product is not considered a fire hazard.

Hazardous Combustion Products
No hazardous combustion products known.
Fire Fighting Advice
- Wear appropriate protective equipment.
- Use self-contained breathing apparatus where required by surrounding fire conditions.
- Prevent contaminated runoff from entering waterways where possible.

Hazchem Code
Not Applicable.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions
- Exercise caution as surfaces may become slippery.
- Avoid unnecessary contact with liquid.
- Use appropriate PPE where large volumes are involved.

Environmental Precautions
Prevent unnecessary release to stormwater systems and waterways.
Cleanup Methods
Small Spills
- Wipe up immediately.
- Absorb with inert material if required.
- Collect into suitable containers for disposal.

Large Spills
- Isolate area.
- Prevent entry into drains.
- Recover product for reuse where practical.
- Absorb remaining liquid with sand, earth or suitable absorbent material.

SECTION 7: HANDLING AND STORAGE

Safe Handling
- Use good industrial hygiene practices.
- Avoid contamination during handling.
- Do not eat, drink or smoke when handling product.

- Wash hands after use.
- Keep containers closed when not in use.

Storage

Store in:

- HDPE containers
- Polyethylene containers
- Polypropylene containers
- Stainless steel tanks suitable for purified water applications

Keep containers clean, sealed and protected from contamination.

Storage Conditions

- Store under ambient conditions.
- Avoid contamination from dust, dirt and chemicals.
- Protect product quality by maintaining sealed storage.

Storage Incompatibilities

None known.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards

No occupational exposure limits have been established.

Engineering Controls

General ventilation is normally sufficient.

Where mists are generated, adequate local exhaust ventilation should be considered.

Personal Protective Equipment

Eye Protection

- Safety glasses with side shields complying with AS/NZS 1337.
- Chemical goggles where splashing is likely.

Hand Protection

- PVC gloves
- Nitrile gloves
- Rubber gloves

Use gloves appropriate to workplace exposure conditions.

Body Protection

- Standard industrial workwear.
- Safety footwear where bulk containers are handled.

Respiratory Protection

Not normally required under normal conditions.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Typical Value
Appearance	Clear, colourless liquid
Odour	Odourless
Physical State	Liquid
pH	Typically 5.5 - 7.0

Freezing Point	Approximately 0°C
Boiling Point	Approximately 100°C
Relative Density	Approximately 1.0
Solubility	Completely miscible in water
Flash Point	Not applicable
Flammability	Non-flammable
Vapour Density	<1
Vapour Pressure	Approximately 2.67 kPa
Explosive Properties	Not explosive
Oxidising Properties	Not oxidising

Typical water-like properties and values adapted from industry SDS data.

Typical Quality Parameters

Based on independent laboratory testing:

Parameter	Typical Value
Conductivity @ 25°C	Approximately 1 µS/cm
Total Dissolved Solids (TDS)	<10 mg/L
pH	Approximately 6.0
Appearance	Clear, colourless

SECTION 10: STABILITY AND REACTIVITY

Reactivity

Not expected to be reactive under normal conditions.

Chemical Stability

Stable under normal storage and handling conditions.

Hazardous Reactions

Hazardous polymerisation will not occur.

Conditions to Avoid

Contamination during storage and use.

Incompatible Materials

No known incompatibilities.

Hazardous Decomposition Products

No hazardous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION

Based on available data, the classification criteria are not met for:

- Acute toxicity
- Skin corrosion/irritation
- Serious eye damage/irritation
- Respiratory sensitisation
- Skin sensitisation
- Germ cell mutagenicity
- Carcinogenicity
- Reproductive toxicity

- Specific Target Organ Toxicity (Single Exposure)
- Specific Target Organ Toxicity (Repeated Exposure)
- Aspiration hazard

Likely Routes of Exposure

Inhalation

Not normally a hazard due to the non-volatile nature of the product.

Skin Contact

Not expected to cause irritation under normal use.

Eye Contact

May cause temporary discomfort or redness following direct contact.

Ingestion

Not expected to cause adverse effects. Excessive consumption may cause temporary gastrointestinal discomfort.

Chronic Effects

No known chronic adverse health effects.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Product is not expected to be harmful to aquatic organisms.

Persistence and Degradability

Naturally occurring substance with low environmental persistence concerns.

Bioaccumulative Potential

Not expected to bioaccumulate.

Mobility

Completely miscible in water and highly mobile in soil and aquatic environments.

SECTION 13: DISPOSAL CONSIDERATIONS

- Recycle or reuse where practical.
- Dispose of in accordance with local, state and federal regulations.
- Disposal to sewer may be subject to local authority requirements.
- Empty containers should be thoroughly cleaned prior to recycling or disposal.

SECTION 14: TRANSPORT INFORMATION

Item	Classification
UN Number	Not Allocated
Proper Shipping Name	Not Applicable
Dangerous Goods Class	Not Applicable
Packing Group	Not Applicable
Hazchem Code	Not Applicable
Marine Pollutant	No

Not regulated as Dangerous Goods by:

- ADG (Road/Rail)
- IMDG (Sea)

- IATA (Air)

SECTION 15: REGULATORY INFORMATION

Australian Regulations

- Not classified as Hazardous under Safe Work Australia criteria.
- Not classified as Dangerous Goods under the ADG Code.
- Not scheduled under the SUSMP.

Inventory Status

Water (CAS 7732-18-5) is listed on the Australian Inventory of Industrial Chemicals (AICIS/AIIC).

SECTION 16: OTHER INFORMATION

Product Description

Bauly Chemicals Deionised Water (Demineralised Water) is a high-purity water product manufactured for industrial, commercial and technical applications requiring low dissolved solids and low conductivity water.

Typical Applications

- Coolant manufacturing
- Coolant dilution
- DEF/AdBlue® manufacturing
- Chemical blending
- Laboratory use
- Battery maintenance
- Equipment rinsing
- Spot-free cleaning

Disclaimer

The information contained in this Safety Data Sheet is believed to be accurate and reliable at the date of issue. It is provided as guidance for the safe handling, storage, transport, use and disposal of the product. Users are responsible for determining the suitability of this product for their particular application and for compliance with all applicable laws and regulations.