



TECHNICAL DATA SHEET (TDS)

Product Name: ASHAION® BIO 252 DB

Category: Non-Oxidizing Biocide

Brand: ASHAION®

1. Product Description

ASHAION BIO 252 DB is a fast-acting, broad-spectrum non-oxidizing biocide formulated to control bacteria, algae, and fungi in industrial water treatment applications. It is highly effective across a wide range of microorganisms and demonstrates excellent performance within the pH range of 6 to 9.

2. Applications

- - Cooling towers
- - Closed-loop recirculating systems
- - Air washers and scrubbers
- - Process water systems
- - Pulp and paper industries
- - Breweries and food processing units (non-contact areas)
- - RO and ETP pretreatment systems (where permitted)

3. Key Features & Benefits

- - Rapid microbiological control with fast kill rate
- - Effective in both acidic and neutral systems (pH 6–9)
- - Compatible with most water treatment chemicals
- - Prevents biofouling and microbiologically influenced corrosion (MIC)
- - Does not contribute to halogen demand
- - Biodegradable and degrades quickly in water

4. Physical & Chemical Properties

Parameter	Value
Appearance	Clear to pale yellow liquid
Odour	Mild characteristic
pH (as supplied)	3.0 – 5.0

Solubility	Completely miscible in water
Specific Gravity (@25°C)	1.01 – 1.05
Flash Point	> 93°C (Non-flammable)
Shelf Life	12 months from date of manufacture (sealed condition)

5. Usage & Dosing Guidelines

Dosing should be based on system volume and contamination level.

Typical dosage:

- Initial shock dosing: 100–200 ppm
- Maintenance: 50–100 ppm at regular intervals

Dose directly into the recirculating water at a location of good mixing.

6. Storage & Handling

- - Store in a cool, dry place away from direct sunlight
- - Keep container tightly closed when not in use
- - Use personal protective equipment (PPE) while handling
- - Do not mix with oxidizing biocides or strong alkalis

7. Packaging

Available in:

- 30 kg HDPE carboys
- 200 kg HDPE drums
- Custom packaging available upon request

8. Safety & Precautions

- - Avoid contact with skin and eyes
- - Use gloves, goggles, and protective clothing
- - In case of contact, rinse immediately with plenty of water and seek medical attention
- - Refer to Safety Data Sheet (SDS) for detailed safety and first-aid information

9. Regulatory Information

Complies with applicable environmental and industrial water treatment guidelines

Not intended for potable water applications

10. Disclaimer

Information provided in this TDS is believed to be accurate and reliable. However, conditions of use are beyond our control. Users must evaluate the suitability of the product for their specific applications.