



## TECHNICAL DATA SHEET (TDS)

Product Name: ASHAION® BIO 253 GP

Product Type: Non-Oxidizing Biocide

Application: Cooling Towers, Pasteurizers, Air Washers

Document Version: TDS/AB253GP/01

Effective Date: April 2025

### 1. Product Description

ASHAION® BIO 253 GP is a high-performance, broad-spectrum non-oxidizing biocide designed for industrial water treatment applications. Its fast-acting dual-component formulation effectively controls microbial growth including bacteria, fungi, and algae in open and closed recirculating systems such as cooling towers, pasteurizers, and air washers.

### 2. Key Features & Benefits

- Rapid antimicrobial action
- Effective against biofilm-forming bacteria
- Suitable for a wide range of water systems
- Compatible with most water treatment chemicals
- Non-foaming and easy to dose

### 3. Typical Properties

Property	Value
Appearance	Clear to pale yellow liquid
Odor	Mild aldehydic
pH (as supplied)	3.0 – 6.0
Specific Gravity @ 25°C	1.02 – 1.08
Solubility in Water	Completely soluble
Shelf Life	12 months from date of manufacture (unopened container)

#### **4. Recommended Dosage**

Initial Dose (Shock Treatment): 100–150 ppm based on system volume

Maintenance Dose: 40–80 ppm once or twice a week depending on system load and microbial contamination

Dosage may be adjusted based on water quality and microbiological analysis.

#### **5. Application Guidelines**

Can be added directly to the cooling tower basin, sump, or other suitable point of high turbulence.

Ensure uniform distribution for optimal efficacy.

Avoid direct mixing with oxidizing biocides without compatibility testing.

#### **6. Handling & Safety**

Use personal protective equipment (PPE) such as gloves, goggles, and protective clothing.

Avoid inhalation, ingestion, and contact with skin or eyes.

In case of contact, flush immediately with clean water and seek medical advice.

Refer to the Safety Data Sheet (SDS) for complete safety information.

#### **7. Packaging**

Available in 35 kg HDPE carboys, 200 kg HDPE drums, or as per customer requirement.

#### **8. Storage & Shelf Life**

Store in a cool, dry, and well-ventilated area away from direct sunlight and heat.

Keep containers tightly closed when not in use.

Shelf life is 12 months from the date of manufacture in original unopened packaging.

#### **9. Regulatory Compliance**

Complies with applicable Indian industrial water treatment regulations.

Not approved for potable water applications.

#### **10. Disclaimer**

The information provided in this document is based on our current knowledge and intended to describe the product with respect to safety and handling. It should not be construed as a warranty or quality specification.