



(Formerly known as Asha Resins Private Limited)

# TECHNICAL DATA SHEET (TDS)

# Product Name: ASHAION® MC 311 AL

Product Type: Membrane Cleaner (Alkaline)

Application: Reverse Osmosis (RO) and Ultrafiltration (UF) Membrane Systems

# **Product Description**

ASHAION® MC 311 AL is a high-performance alkaline membrane cleaner formulated to effectively remove organic foulants, biofilm, and other biological contaminants from reverse osmosis and ultrafiltration membranes. It is suitable for use in a wide range of membrane systems and is compatible with most commonly used membranes.

## **Key Features & Benefits**

- Effectively removes biofilm and organic deposits.
- Enhances membrane life and restores performance.
- Low foaming and easy to rinse formulation.
- Compatible with polyamide and polysulfone membranes.
- Safe for periodic cleaning when used as recommended.

# **Applications**

- RO membrane cleaning in industrial and commercial water treatment systems

- UF system maintenance in food, pharma, and wastewater treatment plants
- Routine or CIP (Clean-in-Place) cleaning cycles

# **Typical Physical Properties**

Parameter	Value
Appearance	Clear, colorless to pale yellow liquid
pH (1% solution)	11.0 – 12.5
Specific Gravity @ 25°C	1.05 ± 0.05
Solubility	Completely miscible in water

#### **Usage Guidelines**

- Dilution: 2–5% solution in RO permeate or demineralized water
- Cleaning Temperature: 30–35°C for best results
- Soaking Time: 30–60 minutes, depending on fouling severity
- Circulation: Recommended for effective cleaning
- Rinse Thoroughly: With clean water before system restart
- \*Always refer to the membrane manufacturer's guidelines before use.\*

#### Handling & Safety

- Use protective gloves, goggles, and clothing while handling.
- Avoid contact with skin, eyes, and clothing.
- Store in a cool, dry, and well-ventilated area away from acids.

- Refer to the Material Safety Data Sheet (MSDS) for complete safety instructions.

## Packaging

5 kg, 25 kg, and 50 kg HDPE containers (Custom packaging available on request)

## Storage & Shelf Life

Store in a tightly sealed container in a shaded area Shelf life: 12 months from the date of manufacture

## Disclaimer

The above data is based on standard laboratory tests and field experience. Actual performance may vary depending on system design, operating conditions, and fouling type.