



# RXSOL

CHEMO PHARMA INTERNATIONAL

**RXSOL-33-3323-030**  
Membrane Cleaner Alkaline

## Technical Data Sheet (TDS)

**Liquid Membrane Cleaner** is a specially formulated solution designed for effective cleaning of **reverse osmosis (RO), ultrafiltration (UF), nanofiltration (NF), and microfiltration (MF)** membranes. It efficiently removes **inorganic scales, mineral deposits, and metallic hydroxides**, restoring optimal performance and extending membrane life. The product is safe for use on **acid-tolerant membranes**, fully water-soluble, and easy to apply in standard CIP (Cleaning-in-Place) procedures. Regular use helps maintain **high flux rates, stable salt rejection, and reduced operating costs** in water treatment systems.

### Key Areas of Application

- Cleaning of RO, NF, UF, and MF membranes fouled with:
- Organic matter (oils, greases, biofilms)
- Inorganic deposits (silica, scale residues)
- Iron fouling and metallic oxides
- Suitable for use in industrial, municipal, power, and desalination plants.
- Recommended for use as a Stage 1 alkaline cleaner, followed by acidic cleaning where inorganic scales are present.

### Features

- Removes organic and inorganic foulants effectively.
  - Highly effective against iron fouling.
  - Readily biodegradable formulation - safer for the environment.
  - Compatible with most RO, NF, UF, and MF membranes.
  - Works well in two-stage cleaning programs with acidic cleaners.
- RO Membrane Cleaner Alkaline is often used in combination with acidic cleaners (such as phosphoric-acid based) in a two-stage cleaning sequence:
- Stage 1 (alkaline) → removes organics, oils, biofouling, and iron.
  - Stage 2 (acidic ORG 75 Membrane Clean MC) → removes inorganic scales (CaCO<sub>3</sub>, sulfates, etc.).

### Properties

Property	Value
Appearance	Clear to pale yellow liquid
Odor	Mild, detergent-like
pH (1% solution, 25 °C)	10.5 - 11.5
Specific Gravity (25 °C)	1.05 - 1.15 g/cm <sup>3</sup>
Solubility	Completely miscible in water
Foaming	Moderate foaming action
Biodegradability	Classified as readily biodegradable

### Usage Guideline

**Working Concentration:** 1.0 - 2.0 % solution (10-20 L product per 1000 L water).

#### Cleaning Method:

- Flush system with RO permeate/DI water.
- Prepare cleaning solution in CIP tank using permeate/DI water.
- Circulate through membrane system for 30-60 minutes.
- For severe fouling, soak membranes for 1-2 hours, then recirculate
- Rinse thoroughly with RO permeate/DI water until pH stabilizes.

NOTE: Correct dosing varies from system to system.

Always consult RXSOL representative.

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