

# Kleen\* MCT882

## Membrane Cleaner

- Highly effective maintenance solution for polyamide membranes
- Effective in removing organic and inorganic foulants from membrane surfaces
- Buffered to maintain a pH of  $2.5 \pm 0.5$  over a range of dilutions
- Liquid formulation allowing reduced mixing time
- No adverse effects with repeated use

### Description and Use

Kleen\* MCT882 removes biological and other organic foulants from membrane water treatment systems to extend run times.

Kleen MCT882 is also a low pH liquid formulation designed specifically to remove calcium carbonate, and other similar scales from reverse osmosis (RO), nanofiltration (NF) and ultrafiltration (UF) membranes. This highly effective product provides superior cleanings resulting in longer system running time.

### Typical Applications

For optimum results, Kleen MCT882 should be used in conjunction with Kleen MCT511.

### Treatment and Feeding Requirements

Check with your local GE Water & Process Technologies representative to determine the specific conditions in your system in order to define the optimum dosage rate and cleaning procedure. In some systems modifications to the clean in place facilities may be required to ensure the optimum cleaning results are achieved.

Important note: This product has a high foaming potential. Return lines in CIP system should enter the CIP tank below the surface.

The Argo Analyzer custom software package is available to assist in dose rate determination.

**Dilution** – The typical dilution ratio for the Kleen MCT882 product is in the range of 10% in proportion to the total volume of the cleaning system inclusive of cleaning tank, all interconnecting pipework, filtration and membrane pressure vessels and membrane elements.

### General Use Instructions for Membrane Cleaning

Inspect cleaning tank, hoses, and cartridge filter. Install new filter elements in the cleaning loop.

Fill cleaning tank with RO permeate or DI water. Slowly add the calculated quantity of Kleen MCT882 to the cleaning tank. Mix solution by recirculating through the cleaning pump. Heat cleaning solution to the maximum value acceptable to the membrane manufacturer.

Circulate through each membrane array in the feed direction for 30 minutes. Circulate at the flow rate recommended by the membrane or system manufacturer. If the manufacturers recommendations are not available, please reference the cleaning section of the GE Water & Process Technologies engineers manual.

In cases of heavy fouling, the first return flow (up to 15% of the cleaning tank volume) should be diverted to drain to prevent re-deposition of removed solids.



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For optimum results, each array must be cleaned separately in a multi array system. If solution becomes turbid, discoloured from removed material, or the pH level moves outside the range recommended by GE then dump the cleaning tank and prepare fresh solution before cleaning additional passes.

Using RO permeate (if possible), rinse before returning system to service.

Please do not hesitate to contact GE Water & Process Technologies with any questions regarding the use or application of this product.

### Packaging Information

Kleen MCT882 is a liquid blend and is available in a wide variety of customised containers and delivery methods. Contact your local GE representative for details.

### Safety Precautions

A Material Safety Data Sheet containing detailed information about this product is available on request.