Water Technologies & Solutions
**fact sheet**

# Kleen* MCT105

## NSF certified low pH membrane cleaner

- Compatible with all thin-film and cellulose acetate membranes
- Low foaming liquid product
- Buffered to maintain an effective pH throughout the cleaning process
- NSF certified for use in potable water applications (certified to NSF/ANSI Standard 60)

## description

Kleen MCT105 is a low pH liquid cleaner, containing a blend of acids, chelants, and complexing agents. The product is specifically designed to remove deposited metals (e.g. aluminum and iron) and scale deposits (e.g. calcium carbonate) from thin-film and cellulose acetate membranes. This highly effective product provides superior cleanings, resulting in restored system performance.

## typical applications

When scaling or fouling in RO membranes accumulates to a level where RO performance is impacted, a clean-in-place (CIP), off-line cleaning should be conducted. Indications of the need for cleaning can include decreased normalized permeate flow, increased operating pressure, increased differential pressures, and increased salt passage. Maintaining normalized data is strongly recommended to properly monitor these trends.

Clean-in-place procedures should specify separate acid and alkaline cleaning steps. The sequence of these steps is dependent upon the nature of the foulant(s).

Consult your SUEZ representative for normalization tools, cleaning tips, and alkaline cleaner product recommendations.

## general cleaning guidelines

Always follow the cleaning procedures outlined in the manufacturer's Operation and Maintenance Manual for your specific system.

**Recommended Dilution** – Use one pound (0.45 kg) of Kleen MCT105 per 5 gallons (19 L) of water, or one gallon (3.8 L) of MCT105 per 50 gallons (189 L) of water. The dosage may be slightly reduced if the degree of fouling is low to moderate.

**Contact time**- CIP cleaning duration can vary depending upon the severity of fouling. Typical contact time is 1 to 3 hours, however up to 24 hours soak time may be necessary for severe fouling.

**System Rinsing** – The system should be rinsed between acid and alkaline cleanings to minimize heat generation and cleaner deactivation.

**System Flush** – After cleaning, the system must be flushed until the pH of the concentrate, or reject, is within +/- 1 pH unit of the feed water before returning the system to service (for NSF compliance).

## packaging information

Kleen MCT105 is available in a wide variety of containers and delivery methods.

## safety precautions

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

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