

Water Technologies & Solutions
fact sheet

MemChem* MCT254

liquid acid membrane cleaner

- Suitable for use with all types of membranes
- Specially designed for ultrafiltration/micro-filtration (UF/MF) systems
- Liquid product, no foaming, and buffered to maintain an effective pH over a range of dilutions
- Enhanced performance at elevated temperatures
- No adverse effects with repeated use
- Optimum results are obtained when used in conjunction with other Kleen* MCT and MemChem MCT products (standard applications)
- Allows pH buffering during cleaning process and temperature changes

description and use

MemChem MCT254 is a low pH liquid formulation that contains organic acids and solvent. It dissolves inorganic scale, metal oxides (like iron, manganese, aluminium, etc.) and other similar foulants from the membrane system surfaces of reverse osmosis (RO), nanofiltration (NF), and UF/MF.

MemChem MCT254 can be used in tandem with other neutral, acid, and alkaline cleaners for scales, organics, and particulate removal.

This highly effective product provides superior cleaning, resulting in longer system run times and optimal membrane life expectancy.

typical applications

During the operation of a membrane separation system, suspended, colloidal, and dissolved solids in the incoming water can contain metals, inorganic, and organic compounds that, either by filtration or by local concentration, could precipitate or foul on the membrane surface.

The deposition of inorganic scales and metal hydroxide foulants impedes the flow of water through the membrane. This can result in unacceptably low production, high operating pressure, or an excessive pressure drop in the system that may lead to irreversible membrane damage.

Before the deposit accumulates to a level where product water declines or membrane damage can occur, it should be removed through an offline clean-in-place (CIP) system. Indications of the need for cleaning include a significant decrease in normalized permeate flow or a significant increase in pressure drop across the MF/UF system (trans membrane pressure). For RO and NF systems, it may also include an increase in the normalized salt passage, such that product quality is unacceptable.

Your SUEZ representative can assist you with monitoring your system and help determine when cleaning is advised.

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treatment and feeding requirements

Feed System - This product should be applied using the membrane cleaning equipment supplied by the manufacturer of the membrane system. If such a system is not present, contact your SUEZ representative.

Dilution - The product must be diluted prior to introduction into the membrane system. The recommended dilution for this product is 0.2% to 3% by weight.

Materials Compatibility - Corrosion-resistant equipment, such as PVC, should be used for the storage and preparation of this product. Pumping materials that come in contact with the diluted product should also be corrosion-resistant.

packing instructions

MemChem MCT254 is a liquid material, available in a wide variety of customised containers and delivery methods. Contact your SUEZ representative for details.

safety precautions

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