

BioMate* MBC2881E

biocontrol agent

- Extremely fast antimicrobial action in conditions found within membrane separation plants
- Rapid degradation to relatively non-toxic end products. The dominant degradation pathway under use conditions involves reaction with nucleophilic substances or organic material found in natural waters
- No adverse effects with repeated use
- Certified by NSF International to NSF/ANSI Standard 60 for use as an offline reverse osmosis membrane biocide.

description and use

BioMate MBC2881E is a broad spectrum biocontrol agent that exhibits fast acting bactericidal activity at low dose levels. Application of BioMate MBC2881E is by injection into the feed stream during operation of the membrane plant while permeate is discharged to drain. Normal dosage time is 30 minutes per application.

BioMate MBC2881E is designed to be used as the maintenance procedure in a three step program to control biological growth in membrane separation equipment where biofouling potential is considered to be an operational problem. The frequency of the BioMate MBC2881E application should be determined by a study of the normalized system performance, taking into consideration the level of biological activity in the feed, permeate and reject streams. This evaluation can be carried out by SUEZ personnel to determine the appropriate dose level, application frequency and injection points.

Water Technologies & Solutions fact sheet

typical applications

Check with your local SUEZ 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.

Most non-metallic tank materials including polyethylene, polypropylene, and others, exhibit good, long-term resistance to BioMate MBC2881E. Acceptable pump components include SS 316, and others.

treatment and feeding requirements

Calculate injection rate as follows:

Example: Injection Rate = plant feed, m³/h x desired ppm of BioMate MBC2881E

Please note that BioMate MBC2881E, as per NSF registration, is designed to be used in Reverse Osmosis systems producing potable water only for off-line cleaning and flushed out prior to using the system.

In this case you need to use it following our applications instructions in the Technical Bulletin TB1160EN.

BioMate MBC2881E should be applied direct from the drum and should not be diluted prior to injection. It must be injected at full strength.

Discontinue injection and rinse system for 15 minutes. Check system permeate conductivity. Rinse until permeate conductivity returns to within membrane specification under normalized conditions. Return system to on-line operation.

Please do not hesitate to contact SUEZ with any questions regarding the use or application of this product.

The Biomate MBC2881E can be analyzed on site using the SUEZ analytical procedure AP592.

packaging information

BioMate MBC2881E is a liquid formulation and is available in a wide variety of customized containers and delivery methods. Contact your local SUEZ representative for details.

safety precautions

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

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