

BioMate* MBC881E

biocontrol agent

description and use

BioMate MBC881E is a broad spectrum biocontrol agent that exhibits fast acting bactericidal activity at low dose levels. Application of BioMate MBC881E 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.

typical applications

BioMate MBC881E is designed to be used as the maintenance procedure in a three step programme to control biological growth in membrane separation equipment where biofouling potential is considered to be an operational problem. The frequency of the BioMate MBC881E application should be determined by a study of the normalised 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.

BioMate MBC881E possesses two characteristics that make it unique among biocontrol agents;

- Rapid degradation to relatively non-toxic end products. The dominant degradation pathway under use conditions involves reaction with nucleophilic substances or organic material found invariably in natural waters.
- Extremely fast antimicrobial action in conditions found within membrane separation plant.

For optimum results, the system should be cleaned with Kleen* MCT882 or Kleen MCT511 prior to the start of the BioMate MBC881E treatment regime.

Water Technologies & Solutions fact sheet

treatment and feeding requirements

BioMate MBC881E should be applied direct from the shipping container and should not be diluted prior to injection.

To calculate the required dose rate (mls/min) of BioMate MBC881E multiply the feed flow (m³/hr) by a factor of 6.

Dosing Example: Feed flow is assumed to be 1m³/hr and BioMate MBC881E is to be applied for 30 minutes.

Feed flow, m³/hr x 6 = dose rate mls/min
Dose rate mls/min x mins = mls BioMate MBC881E

Calculation:

1x 6 = 6 mls/min of application
6 x 30 = 180mls BioMate MBC881E

The permeate from the plant should be directed to drain prior to the application of BioMate MBC881E to the feed stream.

Discontinue injection and rinse system for 15 minutes.

Check permeate conductivity and rinse until the permeate conductivity returns to within membrane specification under normalised conditions.

Return system to online operation.

packaging information

BioMate MBC881E is a liquid material, available in a wide variety of customized containers and delivery methods. Contact your SUEZ representative for more details.

safety precautions

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



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