

# Hypersperse\* MSI410

## antiscalant/antifoulant

- Certified for use in producing potable water (Certified to NSF/ANSI Standard 60)
- Effectively controls silica scaling, as well as scales of calcium and sulfate
- May be fed neat or diluted
- Compatible with all of the leading RO and NF membranes
- Maintains cleaner membrane surfaces by dispersing particulate foulants
- Effective over a wide pH range
- Compatible with feed-waters that contain aluminum and iron oxides

### description and use

Hypersperse MSI410 is a highly effective liquid antiscalant/antifoulant specifically designed for silica scale. Hypersperse MSI410 includes a proprietary SUEZ Water Technologies & Solutions polymer, which is uniquely effective in treating silica scale. This product is an enhancement to Hypersperse MSI310, a proven technology with demonstrated performance in membrane system applications.

Hypersperse MSI410 is capable of effective silica control up to and exceeding 300 ppm under select conditions, although applications on variant water sources may establish other limits. The pH of the concentrate or brine stream must be carefully controlled in the range 6.0 to 6.5 to ensure optimum performance. Use of this product provides longer run times and extended element life resulting in reduced operating and capital costs.

### dosing

The typical dosage range is between 3 and 6 ppm (mg/L). For potable applications the maximum dosage is 10 ppm (mg/L).

**Important Note:** Over and under-dosing may cause membrane fouling. Contact your local SUEZ representative to define the optimal feed point and dosage rate.

**Dilution Guidelines:** On-site dilution of Hypersperse MSI410 is possible, however product dilution to concentrations below 10% is generally not recommended. When diluting, use high quality water such as permeate or deionized water. When feeding diluted product, examine the make-down tank for evidence of MB growth. If MB is observed, sanitize the tank and reduce the batch size. For best results, Hypersperse MSI410 should be fed neat.

### packaging information

Hypersperse MSI410 is a liquid material, available in a wide variety of customized containers and delivery methods. Contact your SUEZ sales representative for details.

### safety precautions

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

Find a contact near you by visiting [www.suezwatertechnologies.com](http://www.suezwatertechnologies.com) and clicking on "Contact Us."

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## Hypersperse\* MSI410

### membrane antiscalant / antifoulant

**concerned about silica scaling in your system and causing reduced membrane life?**

SUEZ presents Hypersperse MSI410, a new antiscalant/ antifoulant technology designed to prevent silica scale precipitation on membrane surfaces. This product is an enhancement to Hypersperse MSI310, a proven technology with demonstrated performance in membrane system applications.

Based on laboratory studies and successful field applications, this program effectively controls silica scale up to and exceeding 300 ppm silica in the concentrate under select conditions. In addition to its excellent scale inhibition performance, this product offers the following advantages:

- Classified for use in producing potable water (Classified to ANSI/NSF Standard 60)
- Effectively controls silica scaling, as well as scales of calcium and sulfate
- May be feed neat or diluted
- Compatible with all of the leading RO and NF membranes
- Maintains cleaner membrane surfaces by dispersing particulate foulants
- Effective over a wide pH range
- Compatible with feedwaters that contain aluminum and iron oxides



### delivering value to our customers

This product in conjunction with a well-designed membrane system treatment program will help customers to meet several key needs:

- Reduce chemical and disposal costs by decreasing the frequency of system cleanings
- Reduce membrane replacement expenditures by prolonging the life of membranes
- Reduce energy costs by providing more efficient system operation
- Maintain target quality parameters of permeate water

### constant innovation, continuous improvement

SUEZ maintains a global commitment to innovation and continuous improvement. As a direct result of that commitment, Hypersperse MSI410 was developed to help protect valuable membrane system assets while reducing costs. As a SUEZ customer, you can rely on us to deliver bottom-line benefits.

**Want to learn more? Visit:**

[www.suezwatertechnologies.com](http://www.suezwatertechnologies.com)