# Hypersperse* MDC704i

*FACT SHEET*

## Antiscalant/Antifoulant

- Highly effective at low application costs for seawater, brackish water, and water reuse applications
- Effectively controls scale including calcium carbonate, calcium sulfate, and barium sulfate
- Excellent results as a replacement for acid dosing
- Reduces the operating costs by increasing membrane life and reducing membrane cleaning frequency.
- Effective over a wide pH range
- May be fed neat or diluted
- Certified for use in producing potable water. (Certified to NSF/ANSI Standard 60)
- Coagulant compatible and can be used with any SoliSep* MPT series product

## Description and Use

Hypersperse MDC704i is a highly effective and safe liquid antiscalant/antifoulant developed to control scale precipitates and reduce particulate fouling within membrane separation systems.

Use of this product provides longer run times and extended element life, resulting in reduced operating and capital costs. The product has shown excellent results in membrane separation processes, including RO, NF, and EDR.

## Application

For maximum effectiveness, Hypersperse MDC704i should be added upstream of the static mixer or cartridge filter housing.

## Dosing

Typical dosage range is between 1.5 and 5 mg/L. For potable applications, the maximum dosage is 12 mg/L.

To determine the adequate dose rate for a certain system, it is recommended to use the Argo Analyzer* simulation software. It will provide the best application dosage linked to the specific water chemistry and system design.

Please contact your local Veolia representative to define the optimal feed point and dosage rate.

**Dilution Guidelines:** On-site dilution of Hypersperse MDC70i4 is possible; however, product dilution to concentrations below 20% 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 microbiological (MB) growth. If MB growth is observed, sanitize the tank, and reduce the batch size. For best results, Hypersperse MDC704i should be fed neat.

**Maximum Dilutions**

Maximum dilution is temperature related, as shown below.

| Temperature | Maximum Dilution, % |
|---|---|
| <30°C (86°F) | 20 |
| 30-35°C (86-95°F) | 35 |
| >35°C (95°F) | 70 |

## Packaging and Storage Information

Hypersperse MDC704i is a liquid material in various customized containers and delivery methods. Protect from freezing. Contact your Veolia sales representative for details.

## Safety Precautions

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

**Veolia Water Technologies**
Please contact us via:
**www.veoliawatertechnologies.com**

*Trademark of Veolia; may be registered in one or more countries. ©2022 Veolia. All rights reserved. E-FSmcHyperspreseMDC704i_EN.docx Sep-22