

# Genesys SI

Silica Antiscalant/Antifoulant

**G E N E S Y S**  
**I N T E R N A T I O N A L**

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

**The Complete Solution**

## Inhibits Silica and Inorganic Scales



## Prevents Silica Fouling



- ✓ Suitable for Reverse Osmosis (RO) and Nano-Filtration (NF) membranes
- ✓ Drinking water approval
- ✓ Compatible with all polyamide membranes
- ✓ Replaces acid addition
- ✓ Allows high recovery rates
- ✓ Simple test method
- ✓ Inhibits common scaling species
  - ▶ Silica
  - ▶ Calcium carbonate/sulphate
  - ▶ Barium/Strontium sulphate
  - ▶ Calcium phosphate
  - ▶ Iron/Manganese

## Description

Genesys SI has been developed as an antifoulant for use in Reverse Osmosis and Nano-Filtration systems operating on high silica feed-waters. Genesys SI is also effective against all common scale forming salts such as calcium carbonate, calcium, barium and strontium sulphate.

By reducing silica fouling and inhibiting all forms of scaling, Genesys SI allows OEMs to design systems that can operate at higher recovery rates, reducing the amount of feed water used and the volume of concentrate to be discharged. Consequently, significant savings can be made in capital and operating costs.

## Application

Genesys SI should be dosed continuously to the feed water upstream of the cartridge filters.

Typical dosage rates are 2-5mg/l.

The optimum dosage rate can be calculated using the Genesys Membrane Master<sup>®</sup> software. Genesys SI can be diluted and is fully miscible with water in all proportions.

## Health and Safety

Genesys SI is a non-hazardous, synergistic blend of inhibitors based on neutralised carboxylic and phosphonic acids. Genesys SI is not aggressive to carbon steel and other commonly used materials of construction. A material safety data sheet is available on request.

## Classification

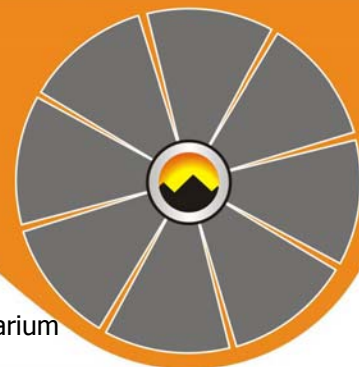
CHIP: Not Classified | UN: Non Hazardous

## Typical properties

Appearance: pale amber liquid  
pH as supplied: 9.8 – 10.2  
Specific gravity: 1.13 – 1.17  
Freezing point: < - 4°C

## Packaging

Available in 25 kg kegs, 240 kg drums and 1,200 kg IBCs. Shelf life is twelve months under normal conditions of storage.



## For more information contact:

**Genesys International Ltd.**  
3A Aston way, Midpoint 18,  
Middlewich, Cheshire, CW10 0HS, UK  
E-mail: [info@genesysro.com](mailto:info@genesysro.com)  
[www.genesysro.com](http://www.genesysro.com)

Release 12/07/2010

Genesys Latin America - Chile  
Genesys North America - USA  
Genesys Membrane Products - Spain