

# Genesys HR

## Sea-water Anti-scalant

**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 Scale formation



### Prevents Iron Fouling



- ✓ Suitable for Reverse Osmosis (RO) and Nano-Filtration (NF) membranes
- ✓ Compatible with all types of polyamide membrane
- ✓ Particularly effective in high pressure systems working at 60-65% recovery
- ✓ Drinking water approval
- ✓ Highly cost effective alternative to SHMP
- ✓ Inhibits common scalants
  - ▶ Calcium carbonate/sulphate
  - ▶ Barium/Strontium sulphate
  - ▶ Silica
  - ▶ Magnesium hydroxide
  - ▶ Iron/Manganese

### Description

Genesys HR has been developed as an anti-scalant for use in large sea-water Reverse Osmosis and Nano-Filtration systems. It is a concentrated product used at low dose rate.

By inhibiting all scaling species it allows systems to be designed and operated at high recovery rates. By reducing the amount of feed water needed and reject water requiring disposal, significant capital and operating cost savings can be made.

### Application

Genesys HR should be dosed continuously to the feed water upstream of the cartridge filter.

Typical dosage rates are 0.4-0.8 mg/L.

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

### Health and Safety

Genesys HR is a concentrated solution of phosphonic acid that is classified as safe to use in potable water applications. Genesys HR is corrosive to carbon steel so all dosing pumps, storage tanks and pipe-work should be constructed of acid resistant material.

A material safety data sheet is available on request.

### Classification

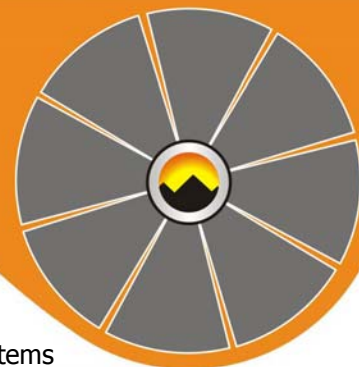
CHIP: Irritant | UN: Corrosive

### Typical properties

Appearance:	clear liquid
pH as supplied:	<1.5
Specific gravity:	1.14 – 1.16
Freezing point:	<-5°C

### Packaging

Available in 25 kg kegs, 200 kg drums and 1,000 kg IBC's. The shelf life is two years under normal conditions of storage.



### For more information contact:

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