

# Genesys MP

## Broad Spectrum Municipal Antiscalant

Genesys MP is a broad spectrum liquid antiscalant, approved for use in large municipal Reverse Osmosis and Nano-filtration systems.

It is effective in brackish and sea-water applications preventing inorganic scale, particularly calcium carbonate, iron and silica thus reducing the frequency of membrane replacement and cleaning. Genesys MP is effective at a Langelier Saturation Index (LSI) of +2.3 which means that systems can be designed and operated at their optimum recovery rates. By reducing the amount of feed water used and concentrate to be discharged, significant savings can be made to both capital and operational costs.

### Application

Genesys MP should be dosed continuously to the feed water upstream of the cartridge filters. Typical dosage rates are 1 – 5 mg/L.

Under NSF listing the Genesys MP dose rate in the feed water should be less than 5 mg/L in potable water systems.

The optimum dosage rate can be calculated using the Genesys Membrane Master software. Genesys MP can be diluted and is fully miscible with water in all proportions.

### Health and Safety

Genesys MP is an aqueous solution of neutralised phosphonic acid and does not contribute to assimilable organic carbon (AOC), which can act as a source of nutrient for micro-organisms. Genesys MP is compatible with carbon steel and other commonly used materials of construction. Observe all safety precautions shown in the material safety data sheet, available on request.

### Packaging

Available in 25 kg kegs, 250 kg drums and 1,300 kg IBCs. The 'shelf life' is 2 years under normal storage conditions.



Large BW/SWRO Systems

- ✓ Suitable for Reverse Osmosis (RO) and Nano-Filtration (NF) membranes
- ✓ Effective at LSI up to +2.3
- ✓ Excellent inhibitor for iron fouling
- ✓ Excellent silica antiscalant
- ✓ NSF listed
- ✓ Compatible with all types of polyamide membranes
- ✓ Replaces acid addition
- ✓ Inhibits common scales
  - Calcium carbonate/sulphate
  - Calcium phosphate
  - Barium/Strontium sulphate
  - Silica
  - Iron/Manganese

### Typical properties

Appearance: straw coloured liquid  
pH as supplied: 9.8 - 10.2  
Specific gravity: 1.28 - 1.30  
Freezing point: -10°C

The information provided in this data sheet is believed to be true and accurate. Genesys International Ltd. accepts no product liability as the use of its products are outside the company's control.