

# TECHNICAL BULLETIN



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## MEM CLEAN AS2

### ANTISCALENT FOR RO MEMBRANES

#### MATERIAL & FUNCTION

**MEM CLEAN AS2** is a multifunctional antiscalant and antifoulant for reverse osmosis systems, highly effective in controlling both crystallization and particulate fouling of membrane surfaces.

**MEM CLEAN AS2** has excellent calcium tolerance, is thermally stable, an effective dispersant for calcium carbonate and is as good as or better than the phosphonates for calcium sulfate control. It inhibits the precipitation of calcium phosphate and calcium phosphonate and stabilizes the reaction products of iron and calcium. It is also a stabilizer for zinc.

**MEM CLEAN AS2** has compatibility approvals from membrane manufacturers.

#### PRODUCT PROPERTIES

The following are typical properties for **MEM CLEAN AS2** and should not be regarded as specification limits for the product.

Appearance: Pale, yellow liquid

Odour: Slight

pH: 2.0 maximum

Solids Content: 33 to 37% w/w

Specific Gravity at 20/20°C: 1.150 to 1.165

Boiling Point Range: 100 to 102°C

Freezing Point Range: 0°C approx

Thermal Stability: Stable under normal operating conditions.

Chemical Reactivity: **MEM CLEAN AS2** is not affected by chlorine or other oxidizing biocides under normal conditions of use. **MEM CLEAN AS2** may be used in membrane systems using chlorine and sodium metabisulfite.

#### APPLICATIONS

**MEM CLEAN AS2** is designed for use in reverse osmosis systems producing potable water

#### DIRECTION FOR USE

**MEM CLEAN AS2** is an aqueous solution of an organic acid and is corrosive in its concentrated form. Corrosion resistant dosing equipment must therefore be used. Examples of suitable materials are 316L stainless steel or plastics such as PVC

The recommended injection point is into the feedwater downstream of any filtration equipment and cartridge filters.

**MEM CLEAN AS2** is miscible with water in all proportions. It may be applied as the neat product, or as a solution in distillate. A minimum dosing solution strength of 10% w/w is recommended. **MEM CLEAN AS2** should be dosed continuously and proportionately to the feed water flow, to maintain the recommended dose level. The dose level required is dependent on the quality of the feedwater and the saturation indices of the various scale forming species present in the concentrated brine.

### **CAUTION**

*Avoid contact with skin and eyes and avoid breathing vapour or spray mist.* **MEM CLEAN AS2** is an aqueous solution containing polycarboxylic acid. A Material Safety Data Sheet (MSDS) is available on request.

Classification: Corrosive for conveyance; Irritant for supply.

### **PACKAGING**

HDPE 15L cube and 200L Mauser

### **IMPORTANT NOTICE TO CUSTOMER**

*Since the use of this product is beyond the control of either seller or manufacturer, their only obligation shall be to replace any quantity of product which is proven defective. They cannot assume any risk or liability in excess of the purchase price of the product itself, which does not include labour or any consequential damages resulting from the use of this product. Determining the suitability of this product for any intended use shall be solely the responsibility of the user. **ALWAYS TEST FIRST.***

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