

TECHNICAL BULLETIN



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MEM CLEAN AS4 PHOSPHATE FREE ANTISCALENT FOR RO MEMBRANES

MEM CLEAN AS4

Contains 10-30 % Maleic Acid Terpolymer

WARNING

Causes skin irritation

Causes serious eye irritation

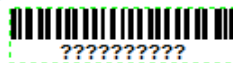
May be corrosive to metals

Wear protective gloves/ protective clothing/
eye protection/face protection. IF ON SKIN:
Wash with plenty of soap and water. IF IN
EYES: Rinse cautiously with water for several
minutes. Remove contact lenses, if present and
easy to do. Continue rinsing. If skin or eye
irritation occurs: Get medical advice/attention.

EMERGENCY INFORMATION

Fire: Not flammable. Spills: Contain spill. Absorb
onto earth or absorbant material. Transfer to
clean labelled containers and dispose of
according to local regulations. Additional
information is listed in the Material Safety
Data Sheet. IN AN EMERGENCY DIAL 000
POLICE OR FIRE BRIGADE

BATCH NO. ????????



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Anti-scaling agent
for use in RO Membranes



UN 3265 CORROSIVE LIQUID,
ACIDIC, ORGANIC, N.O.S.
(Maleic Acid Copolymer)
CLASS 8 HAZCHEM 2X PG II

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MATERIAL & FUNCTION

MEM CLEAN AS4 is an antiscalant and antifoulant for reverse osmosis systems, highly effective in controlling both crystallization and particulate fouling of membrane surfaces.

MEM CLEAN AS4 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 AS4 has compatibility approvals from membrane manufacturers.

PRODUCT PROPERTIES

The following are typical properties for **MEM CLEAN AS4** and should not be regarded as specification limits for the product.

Appearance: amber liquid

Odour: mild odour

Odour threshold: Not available

pH: 1.5 – 2.5

Melting point: 0 to -5°C

Initial boiling point and boiling range: 100 - 102°C

Thermal Stability: Stable under normal operating conditions.

Chemical Reactivity: **MEM CLEAN AS4** is not affected by chlorine or other oxidizing biocides under normal conditions of use. **MEM CLEAN AS4** may be used in membrane systems using chlorine and sodium metabisulfite.

APPLICATIONS

MEM CLEAN AS4 is designed for use in reverse osmosis systems producing potable water

DIRECTION FOR USE

MEM CLEAN AS4 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 AS4 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 AS4** 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. As a guide, a 10% dilution of feed stock, is dosed at a rate of 240 mL/L (ie an effective dose rate of 24 mL/L)

CAUTION

Avoid contact with skin and eyes and avoid breathing vapour or spray mist. **MEM CLEAN AS4** 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

200L drum and 1000L IBC

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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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