

## PS-77\*

### RO System and Membrane Disinfectant

Note: PS-77\* is available only in cases of 4 quarts (1 gallon). Cases cannot be broken due to hazardous material regulations.

**Hydrogen peroxide or a mixture of hydrogen peroxide and peracetic acid (PS-77\*) is used for disinfecting Reverse Osmosis Systems and Thin Film Composite membranes. Two factors greatly influence the rate of hydrogen peroxide attack on the membrane:**

1. Temperature
2. Iron

**Temperature:** The disinfecting solution should not exceed 77 °F (25 °C). Thin Film Composite membranes tested at a temperature higher than 77 °F showed decreased salt rejection over a period of time. The higher the temperature, the faster the decrease occurs.

**Iron:** The presence of iron or other transition metals in association with hydrogen peroxide will catalyze membrane degradation.

### **SPECIFICATIONS**

<b>Appearance and Odor</b>	<b>Clear, colorless liquid with a pungent odor.</b>
<b>pH (concentrate)</b>	<b>1.5</b>
<b>pH (1 %)</b>	<b>3.0 – 3.5</b>
<b>Solubility in Water</b>	<b>Complete</b>
<b>Freezing Point</b>	<b>32 °F</b>
<b>Risibility</b>	<b>Excellent</b>
<b>Stability</b>	<b>Stable for one year</b>

### **WARNING**

**CAUTION:** Can cause eye damage and skin irritation. Do not get in eyes, on skin, or on clothing. Harmful if swallowed. Wear safety glasses and rubber gloves when handling. Wash thoroughly after handling. In case of contact with eyes, immediately flush with large amounts of water for at least (15) fifteen minutes. Get medical attention. If swallowed, drink large amounts of water immediately. Do not attempt to induce vomiting. Get prompt medical attention. Hydrogen peroxide is not recommended in contact with brass, copper, or iron parts and fittings of an RO system. Handle all chemicals with care. Wear protective clothing and eye protection.

\* Hazardous Material

**Applied Membranes, Inc. assumes no liability for results obtained or damages incurred through the improper application of the above information and data.**

© 2001 Applied Membranes, Inc.