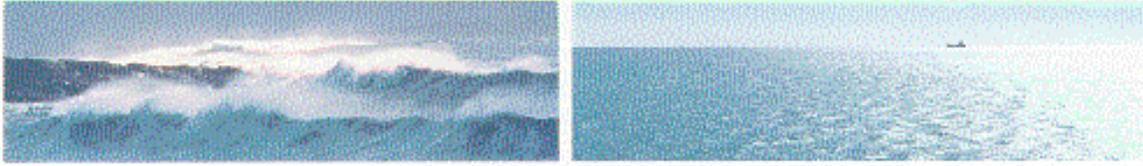


# PermaCare



## PRODUCT DATA

### **PermaClean 67 (PC-67)**

Membrane Cleaning Compound

#### **Description and Use**

PermaClean 67 has been developed for the cleaning of reverse osmosis (RO), nano-filtration (NF) and ultra-filtration (UF) membranes. PermaClean 67 is a formulation based on an anionic surfactant and is highly effective in removing colloidal and other organic matter.

When used in conjunction with microbiocides such as PermaClean 11 and PermaClean 55, it is effective against biofilm.

PermaClean 67 should always be used as recommended by the membrane manufacturer, as compatibility with all membrane types should not be assumed.

#### **Product Benefits**

- Effective removal of organic matter
- High level of active substance
- Liquid product, easy to handle and simple to apply

#### **General Specification**

appearance	: pale yellow liquid
specific gravity @ 20oC	: 1.018
pH as supplied	: 6 - 8

#### **Treatment and Dosage Requirements**

PermaClean 67 cleaning solutions are made at 1.0 - 2.0% w/w with chlorine-free product water and sodium hydroxide addition to give a pH of 10.5 - 11.0. It is recommended that warm cleaning solutions are used within the allowances imposed by the membrane manufacturers, and this temperature determines the maximum cleaning pH.

The duration of the cleaning cycle depends on the quantity and nature of the fouling. Although a cleaning period of 2 - 4 hours may be typical, an extended over-night soaking period may be necessary in the case of heavy fouling. Short periods of recirculation after soaking are considered good practice for heavily fouled membranes.

On completion of the cleaning process it is recommended that the membranes be rinsed with good quality water to remove any residual PermaClean 67. When returning the plant to service the product water should be discarded for the first 15 - 20 minutes or as long as necessary to ensure it is free of the cleaning solution.