

# PermaClean PC-77

## *Membrane Cleaner*

### PermaClean 77 (PC-77)

Membrane Cleaning Compound

### Description and use

PermaClean 77 is a membrane cleaner specifically designed to remove iron fouling. It also has effectiveness against light calcium carbonate scaling. The efficacy of PermaClean 77 can be enhanced by the addition of PermaClean 33 to the cleaning solution although some minor pH correction may be necessary.

PermaClean 77 should always be used as recommended by the membrane manufacturer or equipment supplier, in respect to cleaning pH and temperature.

### Product Benefits

- Liquid product for ease of use
- High level of active substance
- Has approval from the major membrane suppliers
- Buffered to ensure pH control

### General Specification

Appearance	: straw colored liquid
supplied	: pH as
specific gravity	: 3.7
non flammable	: 1.18

### Treatment and Dosage Requirements

Cleaning solutions should be prepared with chlorine free product water to give a 4% w/w solution, or 1 kg of PermaClean 77 to every 25 kgs of water. As PermaClean 77 is buffered the cleaning solution will stabilize at pH 3.6.

The cleaning time depends on the amount of fouling present but is usually completed within two to three hours.

If the cleaning solution becomes red/brown in color it must be changed as it has become exhausted. The PermaClean 77 cleaning solution should always be neutralized with alkali and discarded after use.

Before returning the system to service the operator must ensure that any residual cleaning product is removed from the membrane surfaces by thorough flushing. This may be done by monitoring the pH of the concentrate until it returns to the same pH as the influent

### **Additional Information**

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