



## TRICLEAN 217 LOW PH LIQUID CLEANER

- Used to remove polymers, emulsified oil, and manganese dioxide.

### PROBLEM

In many installations worldwide, polyamide composite RO and NF membranes can become fouled with polymers, emulsified oil, or manganese dioxide foulants. These foulants can quickly lead to a loss of system performance associated with a decrease in permeate flow, and increase in differential pressure, and a loss of element rejection. If left unchecked, this fouling can permanently damage the membrane elements leading to costly and premature membrane replacement.

### SOLUTION

TriClean 217 is a low pH cleaner that should be used in conjunction with TriClean 211. This combination of cleaners will remove polymers, emulsified oil, or manganese dioxide foulants without damaging sensitive polyamide composite membrane elements.

### APPLICATION

TriClean 217 should be mixed in a cleaning tank equipped with a mechanical mixer, heater, low pressure recirculation pump, and cartridge or bag filter. This cleaner works best when applied at a flow rate of 8-10 gpm per 4" pressure tube or 30-40 gpm per 8" pressure tube at a pressure of between 20-50 psi at a pH of 2-3. Add 1 gallon of TriClean 217 per 25 gallons of RO permeate or DI water, and an additional 0.25 gallons of TriClean 211. Recirculate solution for 1 hour checking pH regularly. Use sulfuric acid to lower pH and sodium hydroxide to increase pH. Shutdown pump and allow to soak for 1 hour. After soak, recirculate for an additional 20 minutes and then rinse.

### PACKAGING

TriClean 217 is shipped as a liquid in 5 gallon plastic pails or 55 gallon plastic drums. Pricing is F.O.B. our factory in Goleta, CA. Delivery for most orders is 1-2 days after receipt of order.

### MSDS SHEETS

For the most up to date information on MSDS sheets, please contact our web site at [www.trisep.com](http://www.trisep.com)