

TriClean™ 510

Organics Cleaner

In water treatment plants worldwide, RO, NF, and UF membranes often become fouled with biological and organic foulants. These plants must be cleaned to maintain membrane performance. TriClean 510 specifically targets the removal of organics when used prior to a high pH cleaning.

TriClean 510 is a liquid cleaner, used to remove organic foulants without damaging sensitive polyamide composite membrane elements.

CLEANING PROCEDURE

Prior to cleaning, record pH and TDS readings of the permeate and concentrate water for reference during the final rinse. Appropriate safety equipment should be used.

TriClean 510 should be mixed in a cleaning tank equipped with a mechanical mixer, 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 20-50 psi and pH of 6-8 (pH >12 can damage membrane).

1. Mix a 20 ppm by volume solution of TriClean 510 in cleaning tank.
2. Recirculate solution for 1 hour.
3. Shutdown pump and allow to soak for 1 hour.
4. After soak, recirculate for an additional 20 minutes and then rinse.

SYSTEM RESTART PROCEDURE

Flush permeate and concentrate of membrane system to appropriate drain at <50 psi for 15 minutes. Restart membrane system with both permeate and concentrate diverted to appropriate drain and flush for a minimum of 30 minutes. System can be put back online when RO permeate TDS, concentrate TDS and pH are similar to readings taken prior to cleaning.

DEACTIVATING TRICLEAN™ 510

If deactivation of TriClean 510 is required prior to disposal to a proper drain, use the following procedure.

1. For every gallon of total solution in tank, piping, hoses and vessels, add ½ lb. of sodium metabisulfite and mix thoroughly.
2. Adjust pH to 4.0 using sulfuric acid
3. Recirculate 20 minutes and soak 1 hour.
4. Rinse to appropriate drain.

PACKAGING

TriClean 510 is shipped as a liquid in 5 gallon plastic pails or 55 gallon plastic drums.

SDS INFORMATION

For the most up to date SDS information, please contact MICRODYN-NADIR Technical Service or visit our website at www.microdyn-nadir.com.

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