KOCHKLEEN® OX Sanitant

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Reverse Osmosis (RO) Nano and Ultra Filtration (UF) Cleaning-Sanitization: KOCHKLEEN® OX Sanitant may be used for sanitization of Nano Filtration (NF) and Ultra Filtration (UF) and Reverse Osmosis (RO) membranes and their associated piping systems. This product may be added continuously in food, beverage, and drinking water treatment systems for RO (reverse osmosis) or RO membrane systems due to its excellent rinsing characteristics. Use is not intended for use in kidney dialysis equipment. This product may not totally eliminate all vegetative microorganisms in RO or UF membranes and their associated piping systems due to their compact construction or assembly, but it is intended to reduce the number of microorganisms to acceptable levels when used as directed. Prior to using this product check with the membrane manufacturer to confirm compatibility of membranes with various types or concentrations of peracetic acid solution.

Batch Sanitization of NF, UF, and RO Systems: Isolate incompatible equipment, such as carbon filters and ion exchangers. Clean system with an appropriate cleaner and follow with RO permeate water or potable water. Remove mineral deposits if necessary with a-acid cleaner, and rinse as before. Fill entire system with water and add up to 1% of this product in a volume of 620 ppm peracetic acid for heavily fouled systems. The typical sanitization solution dosing of this product is 1-2 oz per 5 gallons of water (98-185 ppm peracetic acid). Recirculate the sanitizing solution through the piping and membrane system at 20°C for 10 minutes minimum, or up to 4 hours, depending on the severity of cleaning to be done. Open and close process valves and safety valves to make sure all parts are in contact with the solution. For occasional intermittent feed, do not exceed 98 ppm active peracetic acid, which equals 1 oz. of this product per 5 gallons of feed water. Do not use the intermittent feed mixture for continuous use on RO permeate systems. Rinse the system with RO permeate or potable water until residual peracetic acid concentration is below 1 ppm. RO Continuous or Intermittent Addition: For continuous addition methods for RO systems up to 3-5 gpm peracetic acid (30-50 ppm as product), which equals 1.8-4.5 oz. KOCHKLEEN® OX Sanitant per 430 gallons of process water. For occasional intermittent feed, do not exceed 98 ppm active peracetic acid, which equals 1 oz. of this product per 5 gallons of feed water. Do not use the intermittent feed method for on-line use in potable water or direct food contact systems.

Control of Slime Forming Bacteria in Recirculating Cooling Water Systems (Cools Towers, Evaporative Condensers, Pasteurizers): Severely fouled systems should be cleaned before adding the KOCHKLEEN® OX Sanitant solution. KOCHKLEEN® OX Sanitant should be added in the system directly and not mixed with any other chemicals or additives. Discontinue the use of chlorine or bromine products prior to using this product. Contamination with other chemicals could result in product decomposition. Add KOCHKLEEN® OX Sanitant at a point in the system where uniform mixing and even distribution will occur. For slug treatment add 20 oz. of product per 1000 gallons of process water. Repeat as necessary until microbiological control is evident. Thereafter, to maintain control, use 0.3 to 1.5 lbs. (3.5-17.5 ft. oz.) of KOCHKLEEN® OX Sanitant per 1000 gallons of process water (2-5 ppm active peracetic acid) as a continuous treatment. Continuous dosing methods usually require 2.0-5.0 ppm active peracetic acid (4.0-10.2 ft. oz. per 1000 gal of process water) to achieve adequate control.


KOKOCHKLEEN® OX Sanitant is a peracetic acid-based sanitizer/disinfectant developed for the following uses: Bacteria, Algae, and Slime Control in: Recirculating Cooling Water and Evaporative Coolers, Reverse Osmosis and Ultra Filtration.

ACTIVE INGREDIENTS: Peracetic Acid .............................................................................. 5.6% Hydrogen Peroxide .................................................................................. 26.5% OTHER INGREDIENTS: ............................................................................. 67.9% TOTAL: ........................................................................................................ 100.0%

Before Using This Product, Please Read This Entire Label Carefully.

KEEP OUT OF REACH OF CHILDREN

DANGER

FIRST AID

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

IF ON SKIN OR CLOTHING: Take off contaminated clothing and shoes. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses if present before the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth to mouth if possible. Call a poison control center or doctor for treatment advice.

Questions? CHEMTREC: 800-424-9300 Have product container or label with you when calling a poison control center or doctor, or going for treatment

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

EPA Reg# 63838-1-81284 EPA Est# 69994-CA-01 Manufactured For: Koch Membrane Systems, Inc. 850 Main Street, Wilmington MA 01887-3388

Net Contents: □ 53.5 gal □ 5 gal

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS
DANGER CORROSIVE: Do not enter an enclosed area without proper respiratory protection. Causes irreversible eye damage and skin burns. May be fatal if inhaled or absorbed through skin. Harmful if swallowed. Do not breathe vapors of spray mist. Do not get in eyes, on skin, or on clothing. Wear goggles and face shield and rubber gloves when handling. Wash thoroughly with soap and water after exposure. Avoid eating, drinking or using tobacco. Remove contaminated clothing and wash before reuse.

PHYSICAL OR CHEMICAL HAZARDS
Strong oxidizing agent. Corrosive. Mix only with potable water at 60-80°F. Product must be diluted in accordance with label directions prior to use. KOCHKLEEN® OX Sanitant is not combustible; however, at temperatures exceeding 156°F, decomposition occurs releasing oxygen, heat and water. Do not allow to come in contact with combustible materials.

ENVIRONMENTAL HAZARDS
This pesticide is toxic to birds, fish and aquatic invertebrates. Caution should be used when applying indoors because pets may be at risk. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of the National Pollution Discharge System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product into sewer systems without previously notifying the local sewage plant authority.

STORAGE AND DISPOSAL
Storage: Never return to the original container after it has been removed from the mixing container. Avoid all containers, especially dirt or dust, causing reduction of reagent or metal, and metals. Contamination and impurities will reduce shelf life and can induce decomposition. In case of decomposition, isolate container, house container with cool water and dilute KOCHKLEEN® OX Sanitant with large volumes of water. Avoid damage to containers. Keep container closed at all times when not in use. Keep container out of direct sunlight. To maintain product quality, store at temperatures below 86°F. Do not store on wooden pallets.

Procedure for Leak or Spill: Stop leak if this can be done without risk. Shovel or squeegee if necessary. Avoid spark producing materials. Keep combustible and organic materials away. Flush spilled material with large quantities of water. Unlabeled material should not enter confined spaces.

Pesticide Disposal: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or Hazardous Waste representative at the nearest EPA Regional Office for guidance. If material has been spilled, an acceptable method of disposal is to dilute with at least 20 volumes of water followed by discharge into suitable treatment system(s) in accordance with all Local, State and Federal environmental laws, rules, regulations, standards, and other requirements. Because acceptable methods of disposal may vary by location, regulatory agencies should be contacted prior to disposal. KOCHKLEEN® OX Sanitant which is to be discarded, should be disposed of as hazardous waste after contacting the appropriate Local, State or Federal agency to determine proper procedure.

Container Disposal: >5 gallon plastic drums: Triple rinse (or equivalent), then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Lot/Batch #: