

Technical Service Bulletin

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Compatibility and Use of Cleaning Chemicals, Antiscalants, and/or Biocides with Hydranautics Membranes

Hydranautics, a leading supplier of RO, NF and UF membrane technology, has made available information on the compatibility of generic chemicals with Hydranautics membranes. A list of these generic chemicals can be found in Hydranautics Technical Service Bulletins (TSBs) located at www.membranes.com.

In regards to proprietary chemicals, Hydranautics position is that the vendor of these proprietary chemicals is responsible for guaranteeing their product is compatible with Hydranautics membranes. Thus, the chemical vendor would be solely responsible for the financial and other impacts a negative interaction chemicals may have on the Hydranautics Membranes.

Hydranautics does recommend and approve methods for a chemical supplier to demonstrate compatibility of their chemical with Hydranautics membranes. The method employed by the chemical supplier should demonstrate absence of harm to the membrane.

One such method utilizes a full-scale or pilot plant where Hydranautics elements are used with the proposed chemical. Absence of harm to the membrane would be demonstrated through the collection and analysis of at least 12 months of plant data. All operational data should be recorded and normalized in a normalization program such as Hydranautics ROdata available at www.membranes.com.

Another method utilizes the Universal Membrane Compatibility Protocol Program (UMCPP). UMCPP is a formal, standardized, laboratory procedure designed to show chemical compatibility with any membrane. The UMCPP is an industry recognized method for any chemical supplier to demonstrate membrane compatibility. A copy of the UMCPP can be obtained by contacting Hydranautics at the email below.

Hydranautics makes no assurances for product efficacy and assumes no liability for the use of any products, the proper dosing of any products, and the application of any products which may come in contact with Hydranautics membranes. Any indirect effect that a product may have on the operation of Hydranautics membranes, are not the responsibility of Hydranautics. Hydranautics makes no assurances for product efficacy, makes no representation or warranty of any kind, express or implied, and assumes no liability whatsoever for any and all claims of loss or injury resulting from the use of any products that come in contact with Hydranautics membranes. In no event, and under no circumstances, shall Hydranautics be responsible or liable for any damages, including lost profits, lost savings or other direct or indirect, incidental or consequential damages arising out the use of any products with its membranes.

Hydranautics recommends that the chemical manufacturers' instructions regarding the proper use and disposal of their product be followed. Hydranautics is concerned with the health and safety of those that operate and maintain membrane systems and strongly recommends that appropriate personal protective equipment be worn at all times when handling chemicals.