

M-100 Membrane Preservative Instructions

M-100 safely prevents microbiological growth within membrane elements and in membrane systems during long and short-term storage.

Product	For Removing	Membrane Type	Mixing Ratio	pH
M-100	Microbiological growth within membrane elements and systems during storage	Thin film composite, cellulose acetate, nanofiltration, ultrafiltration	1 pound M-100 to 6 gallons water	Medium / Low

M-100	Storing Procedures
<p>M-100 safely and effectively prevents microbiological growth within membrane elements and systems during long- and short- term storage.</p> <p>It replaces the use of formaldehyde, sodium metabisulfate and other chemicals that are typically used.</p> <p>While formaldehyde or sodium bisulfite are either hazardous or unstable, M-100 is effective for long-term and does not create environmental or health risks. M-100 is compatible with all membrane types and rinses easily from membranes.</p> <p>A conductivity meter can conveniently monitor the completeness of rinsing to the background conductivity of the rinse water. M-100 is packaged as a dry, stable, non- reactive powder for ease of transportation and storage.</p>	In Storage
	1. Clean the membranes with AXEON C-10 or C-20 cleaners prior to storage. Using good quality water (RO product water), mix at a ratio of one pound M-100 to 6 gallons of water.
	2. Recirculate storage solution at low pressure (less than 60 psig) through membranes for minimum of 15 minutes.
	3. After re-circulation, shut system down making sure storage solution does not drain out of membranes.
	4. After storage, rinse membranes with good quality water for 30 minutes before system start up.
	Container Storage
	1. Clean membranes with AXEON C-10 or C-20 cleaners.
	2. Using good quality water (RO product water), mix a ratio of one pound M-100 to 6 gallons of water. Place membranes in storage container containing M-100 solution.
	3. After storage, place membranes in system and rinse with good quality water for 30 minutes prior to system star-up.

Long Term Storage with Glycol

1. Flush system with purified water
2. Mix 1 lb. of M-100 to 4 gallons of purified water
3. Add glycol 20% by weight to preservative solution
4. Use separate booster pump to flush through whole system (skip if no pump. Go to #5)
5. Remove end plugs of pressure vessels and pour preservative until vessel is fully flooded.
6. Re-install end plugs

WARNING

If product comes in contact with eyes or skin - flush eyes with excess water. Wash from skin with soap and water. If product is inhaled, remove subject to fresh air. If product is accidentally ingested, immediately rinse mouth and throat and stomach. Drink water or milk. In all cases, call or see a physician.

Spilled material must be swept up immediately. Residual spill may be flushed with water. Small quantities can usually be disposed at landfill sites. Consult local authorities.

Use NIOSH or MSHA approved respirator for dust levels exceeding OSHA limit.

MSDS available on our website