

M-100 MEMBRANE PRESERVATIVE

#1: IDENTIFICATION

Product Identifier

- Trade name: M-100
- Manufacturing Part Number:
 - 206722
 - 206723
 - 206724
- Synonyms: Preservative

Recommended Use

- Reverse osmosis membrane preservative

Supplier Details

- Manufacturer/Supplier: AXEON®
Water Technologies
 - 40980 County Center Drive
Temecula, CA 92591
 - Phone: 1-800-320-4074
 - Website: AXEONwater.com
 - Hours of Operation: Mon. through Fri.,
7:30 a.m. - 4:30 p.m.

Emergency Telephone Number

- CHEMTREC ALERT
 - 1-800-424-9300 (North America)
 - 1-703-527-3887 (International)

#2: HAZARD IDENTIFICATION

Classification of the Substance or Mixture

Skin Irritant–Category 2
Eye Irritant–Category 2B

Label Elements

- Hazard pictograms:



Hazard Statements

WARNING: Causes skin and eye irritation.
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Precautionary Statements

Precautionary Statements: Wash exposed areas thoroughly after handling. Wear protective gloves and eye/face protection.
If on skin: Wash with plenty of soap and water.
If in eyes: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. For specific treatment, see section 4 (First Aid Measures).
If skin or eye irritation occurs/persists: Get medical advice/attention. Take off contaminated clothes and wash before reuse.

#3: COMPOSITION/INFORMATION ON INGREDIENTS

- The specific chemical identities and exact percentages of composition have been withheld as a trade secret.

#4: FIRST AID MEASURES

Description of First Aid Measures

- Inhalation:
 - For nasal irritation, remove exposed person from source of exposure to fresh air.
 - If not breathing, clear airway and start cardiopulmonary resuscitation (CPR).
 - Get immediate medical attention.
- Skin contact:
 - Itching or irritation of the skin.
 - Immediately flush the skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
 - Use soap if available.
 - Wash contaminated clothing before reuse.
- Eye contact:
 - Eye irritation.
 - Flush immediately with large amounts of water for at least 15 minutes.
 - Eyelids should be held away from the eyeball to ensure thorough rinsing.
 - Get immediate medical attention.
- Ingestion:
 - Do NOT induce vomiting unless directed to do so by medical personnel.

- If involuntary vomiting occurs, keep the persons head below their waist to prevent aspiration into lungs.
- Never give anything by mouth to an unconscious person.
- Call a physician.

#5: FIRE FIGHTING MEASURES

Extinguishing Media

- Use media appropriate to primary cause of fire.
- Use water to cool fire-exposed containers, structures and to protect personnel.
- Use water to dilute spills and to flush them away from sources of ignition.

Firefighting Procedures

- Use water spray to cool containers exposed to fire.
- Minimize exposure.
- Do not breathe fumes.
- Contain run-off.
- A respirator that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements should be worn if conditions warrant the use of a respirator.

Unusual Fire and Explosion Hazards

- None known.

Combustion Products

- Will emit carbon oxides upon thermal decomposition.

#6: ACCIDENTAL RELEASE MEASURES

Personal Protective Equipment

- Protective clothing, including chemical splash goggles, latex, nitrile, butyl rubber full-length gloves, rubber apron made of nitrile or butyl rubber and rubber overshoes must be worn during spill clean-ups and deactivation of material.
- If this material comes into contact with the skin during clean-up operations, immediately remove all contaminated clothing and wash exposed skin with soap and water.
 - See section 4, First Aid Measures, for further information.

Land Spill

- Wearing recommended protective clothing and equipment, scoop up the spilled material.
- Avoid dusting.
- Place waste in approved containers for disposal.
- Dispose waste according to Federal, State, and Local regulations.

Water Spill

- Wear protective clothing and equipment.
- Stop flow.
- Dike contaminated water and remove for disposal and/or treatment.
- Notify proper authorities and all downstream users if possible.
- Dispose of solid waste according to Federal, State, and Local Regulations.

#7: HANDLING AND STORAGE

Handling

- Do not get in eyes, on skin or on clothing.
- Do not breathe dust or mists.
- Keep container closed.
- Use only with adequate ventilation.
- Use good hygiene practices.
- Wash hands before eating, drinking or smoking.
- Remove contaminated clothing and clean before reuse.

Storage Conditions

- Store in tightly closed containers in cool, dry, well-ventilated area away from incompatibles.
 - The maximum storage temperature for this material is 55 °C / 131 °F.
 - The minimum storage temperature for this material is 0 °C / 32 °F.

#8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

Exposure Limits

- None of the components have a listed PEL value.

Engineering Controls

- Use local exhaust ventilation at the point of dust or mist evolution.
- Have safety shower and eye wash station available where exposure can occur.

#8: EXPOSURE CONTROLS/ PERSONAL PROTECTION (CONT.)

Respiratory Protection

- A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator use.
- Use air purifying respirators within use limitations associated with the equipment or else use supplied air-respirators.
- If air-purifying respirator use is appropriate, use a respirator with organic/acid gas cartridge and dust/mist pre-filters.
- For emergencies or instances where the exposure levels are not known, use a full-face piece positive-pressure air supplied respirator.
 - Warning: air purifying respirators do not protect workers in oxygen deficient atmospheres.

Skin Protection

- Wear impervious protective clothing.
- Use butyl (or Teflon for limited contact) gloves, boots, and coveralls.
- Remove gloves after use.
- Wash hands with soap and water.



Eye Protection

- Splash goggles and/or face shield (ANSI Z87.1 or approved equivalent).



#9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

- Appearance: White powder
- Odor: None
- Density: Approximately 8.5 lbs./gallon
- Specific Gravity: N/A
- Percentage Volatile: 1% Water–Max
- Evaporation Rate: Not volatile
- pH of Solution: 4.5-6 (2% solution)
- Water Solubility: Complete
- Boiling Point: N/A
- Melting/Freezing Point: N/A
- Vapor Pressure: N/A
- Vapor Density: Not volatile
- Auto-ignition Temperature: N/A
- Flash point: N/A
- Flammability: N/A
- Flammable Limits:
 - LEL (Lower Explosive Limits): N/A
 - UEL (Upper Explosive Limits): N/A

#10: STABILITY AND REACTIVITY

Stability/Incompatibility

- Incompatible with strong reducing agents.
- Stable under normal storage conditions; see section 7 (Handling and Storage) for specific conditions.

Hazardous Reactions/Decomposition Products

- Will emit carbon oxides upon thermal decomposition.

#11: TOXICOLOGICAL INFORMATION

Acute Toxicity Information

- Oral (LD50) Rat–3,654 mg / kg
- Dermal (LD50) Rat–2,439 mg / kg
- Signs and symptoms of overexposure:
 - Eye and nasal irritation, headache, dizziness, nausea, vomiting, difficulty breathing, weakness, itching or burning of the skin.
- Acute Affects: None known.
- Eye Contact: May cause conjunctival irritation.
- Skin Contact: May cause reddening.
- Inhalation: May cause irritation.
- Ingestion: May cause gastrointestinal burns.
 - Chronic effects: None known.
- Medical conditions aggravated by exposure: None known.

#12: ECOLOGICAL INFORMATION

- LC50 (Onchorhynchus kisutch) = 40 mg / L/96 hr.
EC50 (Daphnids) = 133 mg / L/48 hr.

- Bioaccumulation potential has not been fully investigated. Avoid release into environment.

#13: DISPOSAL CONSIDERATIONS

- Dispose of in accordance with Federal, State, and Local regulations and permits.
- Refer to state and local requirements for any additional requirements, as these may be different from Federal laws and regulations.
- Chemical additions, processing, or otherwise altering this material may make management information presented in the SDS incomplete, inaccurate or otherwise inappropriate.

#14: TRANSPORTATION INFORMATION

U.S. Department of Transportation (DOT)

- Proper Shipping
 - Name: N/A
 - Hazard Class: Not regulated
 - UN/NA Number: None
 - Packing Group: None
 - Labels Required: None

International Maritime Organization (IMDG)

- Proper Shipping
 - Name: N/A
 - Hazard Class: Not regulated
 - UN/NA Number: None
 - Packing Group: None
 - Labels Required: None

#15: REGULATORY INFORMATION

U.S. Federal Regulations

- Comprehensive Environmental Response and Liability Act of 1980 (CERCLA):
 - M-100 has no reportable quantity.
 - If appropriate, immediately report to the National Response Center (800-424-8802) as required by U.S. Federal Law. Also contact appropriate state and local regulatory agencies.
- Toxic Substances Control Act (TSCA):
 - All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substance Control Act (TSCA) Chemical Substance Inventory.
- Clean Water Act (CWA):
 - M-100 is not a hazardous substance under the Clean Water Act. Consult Federal, State and local regulations for specific requirements.
- Clean Air Act (CAA):
 - M-100 is not a hazardous substance under the Clean Air Act. Consult Federal, State and local regulations for specific requirements.

Superfund Amendments and Reauthorization Act (SARA) Title III Information:

- SARA Section 313 Notification (40CFR 372):
 - This product does not contain toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

State Regulations

- California Prop. 65 Components:
 - This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

International Regulations

- Canadian Environmental Protection Act:
 - All of the components of this product are included on the Canadian Domestic Substances list (DSL).

Canadian Workplace Hazardous Materials Information System (WHMIS):

- None.
- This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

European Inventory of Existing Chemicals (EINECS):

- All of the components of this product are included on EINECS.
- EU Risk (R) and Safety (S) Phrases:

R36/37/38	Irritating to eyes, respiratory system and skin.
S9	Keep container in a well-ventilated place.
S24/25	Avoid contact with skin and eyes.

#15: REGULATORY INFORMATION (CONT.)

S27/28	After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
S45	In case of accident or if you feel unwell, seek medical advice immediately (section 4).
S53	Avoid exposure—obtain special instructions before use.

#16: OTHER INFORMATION

Disclaimer: This SDS is provided as an information resource only. This document should not be taken as a warranty for which AXEON Water Technologies assumes legal responsibility. The information contained within this SDS was provided by raw materials and other reliable sources. The buyer assumes all responsibility of using and handling the product in accordance with applicable federal, state, and local regulations.