



# Material Safety Data Sheet

## CMI-7000S Cation Exchange Membranes

### 1. PRODUCT AND COMPANY IDENTIFICATION:

Name:	CMI-7000S Cation Exchange Membrane
Product:	Ion Exchange Membrane
Use:	Ion Exchanger for Water Treatment
Manufacturer:	Membranes International Inc. 219 Margaret King Avenue Ringwood, NJ 07456 Tel. 973-998-5530 Fax. 973-998-5529

### 2. HAZARDS IDENTIFICATION:

#### Physical State and Appearance

Appearance:	Coated Woven Fabric
Color:	Brown
Odor:	Odorless

#### Potential Health Effects

Inhalation:	Not applicable
Eye Contact:	Not applicable
Skin Contact:	May be slightly irritating to skin.
Ingestion:	Not applicable

### 3. COMPOSITION / INFORMATION ON INGREDIENTS:

Mixture:	Ion Exchange Polymer, Binder, Woven Matrix. Product is trade secret.
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**4. FIRST AID MEASURES:**

Inhalation:	Not applicable
Eye Contact:	Not applicable
Skin Contact:	Wash skin with soap and water
Ingestion:	Not applicable

**5. FIRE FIGHTING MEASURES:**

<b>Extinguishing Media:</b>	Water, Foam, Dry Chemical
<b>Unsuitable Extinguishing Media:</b>	None
<b>Special Fire Fighting Procedures:</b>	Self contained breathing apparatus and full protective suit.
<b>Hazardous Decomposition Products:</b>	Hydrogen Fluoride, Fluorophosgene, Benzene compounds, Carbon Oxides, Styrene, Sulfur Oxides

**6. ACCIDENTAL RELEASE MEASURES:**

<b>Personal Precautions:</b>	Keep away from open flames, hot surfaces and sources of ignition.
<b>Environmental Precautions:</b>	Not applicable.
<b>Methods For Cleaning Up:</b>	Not applicable.

**7. HANDLING AND STORAGE:**

<b>Handling:</b>	Avoid contact with skin. Use gloves and wash hands thoroughly after handling. Keep away from open flames, hot surfaces and sources of ignition.
<b>Storage:</b>	Store at room temperature and low humidity in sealed air tight container. Keep container closed and away from open flames. Storage period not to exceed one year.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION:**

<b>Exposure Limit Values:</b>	None.
<b>Exposure Controls:</b>	Provide adequate ventilation.
<b>Occupational Exposure Controls:</b>	
Respiratory Protection:	Not applicable.
Eye Protection:	Safety glasses.
Hand Protection:	Use rubber or latex gloves.
Skin Protection:	Manufacturing uniform or laboratory coat.
Hygiene Measures:	Thoroughly wash hands after handling.

**9. PHYSICAL AND CHEMICAL PROPERTIES:**

Appearance:	Coated woven matrix
Color:	Brown
Odor:	Odorless
Freezing Point:	Not applicable.
Boiling Point:	Not applicable.
Melting Point:	> 170 °C (338 °F)
Flash Point:	Not applicable.
Flammability:	Non flammable.
Vapor Pressure:	Not applicable.
Solubility in Water:	Insoluble
Decomposition Temp:	> 250 °C (482 °F)

**10. STABILITY AND REACTIVITY:**

Stability:	Stable under normal conditions.
Conditions to avoid:	Keep away from open flames, hot surfaces and sources of ignition. Incompatible with strong oxidizing agents.
Hazardous decomposition products:	Hydrogen Fluoride, Fluorophosgene, Benzene compounds, Carbon Oxides, Styrene, Sulfur Oxides
Hazardous Polymerization:	Will not occur

**11. TOXICOLOGICAL INFORMATION:**

Listed Carcinogens:	None
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**12. ECOLOGICAL INFORMATION:**

Ecotoxicity:	No data available
Mobility:	No data available
Persistence and Degradability:	No data available
Bioaccumulative Potential:	No data available
Other Adverse Effects:	Ecological injuries are not known or expected under normal use.

**13. DISPOSAL CONSIDERATIONS:**

Disposal Methods:

All disposal methods must be in compliance with all Federal, State/Provincial and local laws and regulations. Incinerate only if incinerator is equipped with HF neutralization or recovery system.

Fiber drum packaging can be recycled, incinerated or land filled.

**14. TRANSPORTATION INFORMATION:**

SEA (IMO/IMDG):

Not regulated

AIR (ICAO/IATA):

Not regulated

DOT:

Not regulated

TDG:

Not regulated

**15. REGULATORY INFORMATION:**

Toxic Substance Control Act (TSCA):

Not regulated

Canadian Domestic Substances (DSL):

In compliance

OSHA:

Non Hazardous

**16. NFPA HAZARD RATING:**

Health = 1

Flammability = 1

Instability = 0

The information provided is based on current knowledge about the product as defined by the specifications and use indicated in section 1. MEMBRANES INTERNATIONAL INC. makes no warranty, either expressed or implied, or accepts any liability in connection with this information or its use. The user alone must determine suitability of any information or material for any contemplated use, the manner of use and whether any patents are infringed.