



SAFETY DATA SHEET

AM-77

Issue Date: 01 Jan 2016

Revision Date: N/A

PRODUCT IDENTIFICATION

Company Product Name: AM-77

Other/Generic Names: Biofoulant Cleaner For TF RO Membranes

Product Use and Restrictions on Use Membrane Cleaner.

Supplier: Applied Membranes, Inc.
2450 Business Park Dr
Vista, CA 92081

For More Information Call: (760) 727-3711
(Monday-Friday, 8:00am-5:00pm)

For Emergency Call: For Chemical Emergency, Spill Leak Fire Exposure or Accident - Call CHEMTREC Day or Night DOMESTIC NORTH AMERICA 800-424-9300 INTERNATIONAL, CALL 703-527-3887 (collect calls accepted)

HAZARDS IDENTIFICATION AND COMPOSITION/INFORMATION ON INGREDIENT

Hazardous Ingredients

<u>Ingredient Name</u>	<u>CAS Number</u>	<u>Weight %</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
None	---	---	---	---

FIRST AID MEASURES

Effect of Exposure

SKIN: Irritant. Can cause redness, inflammation, irritation on prolonged contact.

EYES: Can cause redness, irritation, tissue destruction; Irritant on prolonged contact.

INHALATION: Low acute inhalation toxicity. Mists may cause upper respiratory tract irritation.

INGESTION: Harmful if ingested. Can cause nausea, vomiting, and abdominal cramps.

Emergency First Aid

SKIN: In case of contact, immediately wash with plenty of soap and water for at least 5 minutes. Seek medical attention. Remove contaminated clothing and shoes. Clean contaminated clothing and shoes before re-use.

EYES: Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Seek immediate medical attention.



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- INHALATION:** Inhalation is not an expected route of exposure. Remove victim from immediate source of exposure and assure that the victim is breathing. If breathing is difficult, administer oxygen, if available. If victim is not breathing, administer CPR (cardio-pulmonary resuscitation). Seek medical attention.
- INGESTION:** If victim is conscious and alert, give 1-2 glasses of water to drink. Do not give anything by mouth to an unconscious person. Seek medical attention. Do not leave victim unattended.

FIRE FIGHTING MEASURES

Extinguishing Media:

Recommended (*for small fires*): Carbon dioxide, dry chemical.

Recommended (*for large fires*): Alcohol foam, universal foam, water spray.

Special Fire Fighting Procedures: Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus, and full protective clothing.

Unusual Fire and Explosion Hazards:

Hazardous Decomposition Materials (under fire conditions):

- Oxides of sulfur
- Oxides of carbon

Upper Explosive Limit (UEL): No data.

Lower Explosive Limit (LEL): No data.

Flash Point/ Method: > 93 °C (200 °F). Flammability Class: Will Burn

ACCIDENTAL RELEASE MEASURES

Spill or Leak Procedures: *Caution:* Spilled material may make floor slippery. Do not leave traces of product on floors, ladders, etc. as this may present a slipping hazard. Clean up spill using absorbent materials such as earth, sand, or clay. Scrape up and place in appropriate closed container. Clean up residual material by washing area with water.

Waste Disposal: Dispose of waste in accordance with federal, state and local regulations.

HANDLING AND STORAGE

Precautions To Be Taken In Handling And Storing:



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Handling: Avoid breathing vapors and mists. Avoid direct or prolonged contact with skin and eyes. In cold weather, this product may stratify and freeze. This does not damage the product. If freezing occurs, thaw and remix before using. Frozen material may be thawed in a warm room. Avoid localized overheating. Vent drums while heating. Mix thoroughly to ensure homogeneity.

Storage: Store in closed containers. Store in an area that is dry, well-ventilated, away from ignition sources and away from incompatible materials. Expected shelf life if stored at recommended temperatures is 6 months

EXPOSURE CONTROLS/PERSONAL PROTECTION.

RESPIRATORY PROTECTION: Not normally required. Use NIOSH/MSHA approved respirator if conditions warrant.

VENTILATION: Standard Industrial ventilation.

PROTECTIVE CLOTHING: Skin contact should be minimized through use of gloves and suitable long-sleeved clothing.

EYE PROTECTION: Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material. Use safety glasses. Have eye washes available.

PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Brown.

PHYSICAL STATE: Liquid.

ODOR: Odorless.

SOLUBILITY IN WATER: Soluble.

pH (3% Solution): 7-8.5

INITIAL BOILING POINT/RANGE: 100°C (212°F) at 760 mmHg

MELTING/FREEZING POINT: Not Applicable

VAPOR PRESSURE (mmHg): < 23 mmHg @ 25°C (77°F)

% VOLATILES BY VOLUME: < 78

STABILITY AND REACTIVITY

STABILITY: Stable.

INCOMPATIBILITIES: Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Decomposition type: Thermal

- Oxides of sulfur - Oxides of carbon



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HAZARDOUS POLYMERIZATION: Will not occur.

TOXICOLOGICAL INFORMATION

Ingredients found on one of the three OSHA designated carcinogen lists are listed below.

<u>Ingredient Name</u>	<u>NTP Status</u>	<u>IARC Status</u>	<u>OSHA List</u>
No ingredient listed in this section	----	----	----

ECOLOGICAL INFORMATION

Ecotoxicity: The following ecotoxicity data is available for AM-66.

Daphnia EC50 48h → No data available.

Fish LC50 96h → No data available.

Algae EC50 72h → No data available.

Persistence and Degradability: No data available.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

Other Adverse Effects: No data available.

DISPOSAL CONSIDERATIONS

No data available.

TRANSPORT INFORMATION

US DOT HAZARD CLASS: Not regulated.

US DOT ID NUMBER: Not applicable.

PROPER SHIPPING NAME: Not applicable.

REGULATORY INFORMATION

No data available.

OTHER INFORMATION

Current Issue Date: 01 Jan 2016

Previous Issue date: N/A

Changes to SDS from Previous Issue Date are Due to the following: No Changes