

AM-11

Material Safety Data Sheet

Issue Date: 10/25/02 Revision Date: 12/02/08 Supersedes: 12/02/08

Product Identification:

Manufacturer's Name:	Applied Membranes, Inc.
Address:	2325 Cousteau Ct., Vista, CA 92081-8346
Phone No.:	(760) 727-3711
Applied Membranes, Inc. Name:	AM-11
Trade Name:	Acidic TFC Type RO Membrane Cleaner
Chemical Name:	Compound Acidic Membrane Cleaner
Chemical Formula:	Proprietary
Emergency Phone Number:	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)

Composition/ Information on Ingredients

<u>CAS no.</u>	<u>Conc%</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
trade secret	100%	5.000 mg/m3 (respirable dust)	5.000 mg/m3 (respirable dust)

Hazardous Ingredients:

None

First Aid Measures:

Effects of Exposure

Ingestion:	Recognized as safe.
Eye Contact:	An irritant characteristic of organic acids.
Skin Contact:	Mild Irritant
Inhalation:	Dust may cause mild symptoms of respiratory irritation.

Emergency First Aid

Ingestion:	Recognized as safe.
Eye Contact:	Wash eyes with plenty of water. Get medical attention.
Skin Contact:	Wash affected area with water. Launder clothing before reuse.
Inhalation:	Remove person to fresh air.

Fire Fighting Measures:

Flash Point/Method	Ignition temperature (Powder 1000-1020 C)
Extinguishing Media:	Water.
Special Fire Fighting Procedures:	None.
Unusual Fire and Explosion Hazards:	None. At optimum air concentration Bureau of Mines Relative Explosion Rating = Weak
Upper Explosive Limit (UEL):	8 grams/cu. ft.
Lower Explosive Limit (LEL):	65 grams/cu. ft.

Accidental Release Measures:**Spill or Leak Procedures:**

Neutralize and flush with water or sweep and shovel.

Waste Disposal:

Dispose of waste material according to federal, state and local regulations.

Handling and Storage:**Precautions To Be Taken In Handling And Storing:**

None Normally Required. Keep in sealed containers.

Exposure Control/ Personal Protection:

Respiratory Protection:	Approved nuisance mask.
Ventilation:	Local exhaust sufficient to control dust.
Protective Clothing:	None.
Gloves:	Standard work gloves.
Eye Protection:	Safety glasses.
Other Protective Equipment:	None

Physical and Chemical Properties:

Appearance and Odor:	White Odorless powder or granules.
Physical State:	Solid.
pH (1% soln.):	3
Solubility in Water:	>50%
Boiling Point:	Not applicable
Specific Gravity:	1.665
Vapor Pressure (mm. HG.):	Not Applicable
Vapor Density (Air=1):	Not Applicable
Percent Volatile By Volume (%):	Not Applicable

Stability and Reactivity:

Stability:	Stable
Incompatibility:	Usual incompatibilities of organic acids. Aqueous solutions can, if in contact with reactive metal (iron, zinc, or aluminum), form hydrogen which may form explosive mixtures.
Hazardous Decomposition Products:	None known.
Hazardous Polymerization:	Will not occur.
Conditions to Avoid:	None known.

Toxicological Information:

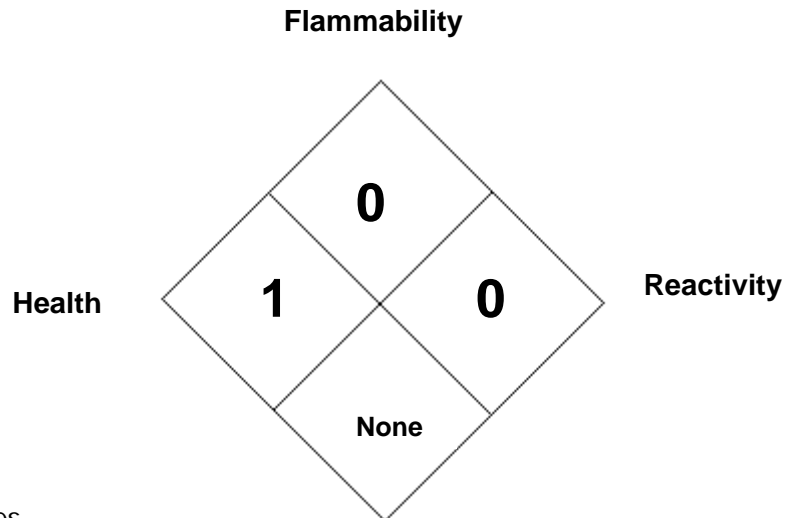
Oral/Parenteral:	Rat LD50 = 11,700 mg/kg.
Dermal (Acute):	Rabbit = 500 mg/24 hr. MOD.
Eye:	750 mg/24 hr. SEV.
Inhalation:	Not Available
Chronic:	Long term oral overexposure may cause damage to tooth enamel.

HMIS Rating

HEALTH	1
FLAMMABILITY	0
REACTIVITY	0

Key

- 4= Severe
- 3= Serious
- 2= Moderate
- 1= Slight
- 0= Minimal

**SPECIAL HMIS RATINGS NOTES:**

Protection = H (Safety goggles, gloves, apron and a vapor respirator)