

C-C2510-A88, C-C2520-A88 C-C4210-A88, C-C4220-A88

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:	C-C2510-A88, C-C2520-A88, C-C4210-A88, C-C4220-A88
Trade Name:	RO System and Membrane Preservative
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)

Hazardous Ingredients:

<u>Material Name/CAS no.</u>	<u>%</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
None			

Physical Data:

Appearance and Odor:	Fine, white granular powder with pungent sulfur dioxide gas odor.
Physical State:	Solid
Boiling Point:	Decomposes above 150°C.
pH (1% soln.):	4.3
Specific Gravity	1.48
Solubility in Water:	39% at 16°C

Fire and Explosion Data:

Flash Point/Method:	Not flammable.
Special Fire Fighting Procedures:	Wear self-contained breathing apparatus approved by NIOSH
Unusual Fire and Explosion Hazards:	At high temperatures or reducing conditions, Sodium sulfide residues are formed. This is an explosive hazard and strongly alkaline in contact with water.

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Health Hazard Data:

Effects of Exposure

Ingestion:	May irritate gastrointestinal tract. Very large doses cause violent colic, diarrhea, depression, and death.
Eye Contact:	Dust or mist contact may irritate or burn eyes. Solution contact will burn eyes.
Skin Contact:	Repeated or prolonged contact with dust may cause irritation. Contact with solution will irritate.
Inhalation:	Inhalation of dust or mist may irritate respiratory tract.

Emergency First Aid

Ingestion:	If conscious, give plenty of water or milk. Induce vomiting by touching finger to back of throat. Get medical attention.
Eye Contact:	Immediately flush with plenty of water, continuing for at least 16 minutes. Get medical attention.
Skin Contact:	Promptly flush with plenty of soap and water.
Inhalation:	Promptly remove to fresh air.

Reactivity Data:

Stability:	Stable.
Incompatibility:	Strong oxidizers, e.g. sodium nitrate: cause strong exothermic reaction. Acids: yield sulfur dioxide gas, which is toxic, corrosive, and an oxidizer.
Hazardous Decomposition Products:	Sulfur dioxide gas. Sodium sulfide residue formed at high temperatures or under reducing conditions. This is an explosive hazard and strongly alkaline in contact with water.
Hazardous Polymerization:	Will not occur.
Conditions to Avoid:	Temperatures above 150°C: causes evolution of toxic and corrosive gas (Sulfur Dioxide).

Spill or Leak Procedures:

Spill or Leak Procedures:

Promptly sweep up with minimum dusting and shovel into an empty container and close. Cautiously spray residue with plenty of water. Provide ventilation to clear sulfur dioxide fumes which will be generated as a result of water contact.

Waste Disposal:

Neutralize with alkali and flush to sewer with plenty of water if permitted by applicable disposal regulations. Good ventilation is required during neutralization because of the release of SO₂ gas. Oxidation to sodium sulfate solution may be required such as by adding a slight excess of dilute hydrogen peroxide carefully and with stirring. Neutralized waste may have to be disposed of by an approved contractor.

Special Protection Information:

Ventilation:	Local exhaust if dusty or misty condition prevails. The TLV may be exceeded without visual warning.
Respiratory Protection:	When required, use NIOSH-approved respirator for dust, mist, and/or sulfur dioxide gas, as conditions indicate. Some exposures may require NIOSH-approved self-contained breathing apparatus or supplied-air respirator.
Protective Clothing:	For handling dry material, wear cotton gloves and full work-clothing, including long-sleeved shirt and trousers. When handling solutions and there is prolonged or repeat contact, wear impervious gloves, clothing, and boots.
Eye Protection:	Wear chemical safety goggles. Do not wear contact lenses.
Other Protective Equipment:	Wear hard hat or other head covering, Eye-wash facility.

Special Precautions

Precautions To Be Taken In Handling And Storing:

Avoid contact with skin, eyes, clothing. Avoid breathing dust or mist. Use normal personal hygiene and housekeeping. Keep away from water or acids or heat. Store in a cool dry, well-ventilated space away from acids and oxidizing agents. (Try to avoid tendency of this product to cake).