

SAFETY DATA SHEET

1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY

PART NUMBER: MRC-80-1

PRODUCT DESCRIPTION: Mold-Resistant Sealer

DISTRIBUTOR:

American Air & Water, Inc.
12 Gibson Dr
Hilton Head Island, SC 29926
USA

TELEPHONE NUMBER:
888-378-4892

EMERGENCY TELEPHONE NUMBER:
Chemtrec: U.S.: 800-424-9300
International: +1-703-527-3887

2. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	Concentration (% by weight)	CAS Number
Octadecyl aminodimethyl trimethyl		
Ethoxysilylpropyl Ammonium Chloride	5-7	027668-52-6
Chloropropyl trimethoxy silane	1-1.5	002530-87-2
Methanol	1-1.2	000067-56-1
Dimethyl octadecyl amine	>0.07-<0.1	000124-28-7

This substance does not contain any OSHA or WHMIS reportable hazardous ingredients. Substances listed in the Subsections HAPA and California Proposition 65 Carcinogens/Reproductive Toxins that are not listed in Section 2 are only present at quantities below 0.1% or they are inextricably bound in the product.

3. HAZARDS IDENTIFICATION

Emergency Overview: CAUTION; combustible liquid and vapor.

Eye contact: May cause irritation

Ingestion: No known hazards

Skin contact: May cause irritation

Inhalation: May produce irritation to the nose, throat, respiratory tract and other mucous membranes. May cause lung damage if inhaled as an aerosol.

Additional Information: May release methanol and ethanol upon hydrolysis, which can irritate eyes, skin, and mucous membranes. Methanol can produce narcotic effects up to coma and death. Repeated exposure to methanol over time can damage the heart, liver, kidneys and optic nerves (blindness). Overexposure to ethanol can cause central nervous system depression.

Chronic Effects: None known or expected. No known internal organ effects.

Medical Conditions Aggravated by Exposure: Overexposure may cause or aggravate pre-existing lung conditions and diseases such as asthma, emphysema, silicosis, or cancer. Methanol may aggravate existing liver and/or kidney diseases.

Carcinogens: There are no carcinogenic ingredients present at or over 0.1% in this material. This material does not contain any reproductive toxins at or above OSHA or WHMIS reportable levels.

4. FIRST AID MEASURES

Get medical attention if irritation occurs or if breathing becomes difficult. Remove contaminated clothing and shoes.

Skin Contact: Immediately wash skin with soap and plenty of water. If irritation persists, consult a physician.

Eye Contact: Immediately flush with water for at least 15 minutes. Lift eyelids occasionally. Get medical attention immediately.

Inhalation: Remove to fresh air. If not breathing give artificial respiration, preferably mouth to mouth. If breathing is difficult, qualified personnel should administer oxygen. Seek immediate medical attention.

Ingestion: Do not induce vomiting. Dilute by giving water or milk to drink if victim is conscious. If vomiting does occur, give additional fluids. Consult a physician, hospital, or poison control center and/or transport to an emergency medical facility immediately. If unconscious, place and transport in stable sideways position.

5. FIRE FIGHTING MEASURES

Flash Point: 22°C (72°F) Closed Cup

Autoignition Temperature: N/A

Flammable Limits: Not determined

Extinguishing Media: Dry chemical, CO₂, dry sand, or appropriate foam. Water may be used to cool tanks and structures adjacent to the fire.

Special Protective Equipment: The use of self-contained breathing apparatus is recommended for fire fighters.

Unusual Fire and Explosion Hazards: Combustible liquid and vapor. Hydrolyzes on contact with moisture releasing ignitable vapors.

Hazardous Combustion Products: Various hydrocarbon fragments, carbon dioxide, formaldehyde, carbon monoxides, silicon dioxide.

6. ACCIDENTAL RELEASE MEASURES

Precautions: Avoid eye/skin contact. Avoid breathing vapor. Obtain appropriate PPE, supplies, and equipment before attempting any response.

Containment Procedures: In case of a spill, contain the spill and eliminate its source. Cover openings to underground drains and sewers. Spills of material which could reach surface waters must be reported to the United States Coast Guard National Response Center's Toll-Free number 800-424-8802.

Clean-Up Procedure: After removing as much material as possible, flush the area with water.

7. HANDLING AND STORAGE

Handling: Keep container closed and away from exposure when not in use. Use with adequate ventilation. Spilled material increases risk of slipping.

Storage: Store in original container. Store in warm temperature regulated area to keep from freezing. Minimum temperature: 0°C (32°F) Do not allow this material to freeze. Maximum temperature: 38°C (100°F) Temperature limit to maintain product quality.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls: Use with adequate ventilation. If spraying or other aerosol generating operations are performed, local exhaust ventilation designed to capture mists and sprays, such as a spray paint booth, is recommended.

As prescribed in the OSHA Standard for Personal Protective Equipment (29 CFR 1910.132), employers must perform a Hazard Assessment of all workplaces to determine the need for, and selection of, proper protective equipment for each task performed.

Respiratory Protection: Respiratory protection is not normally required. If spraying or other aerosol generating operations are performed, respiratory protection for exposed personnel is recommended. A NIOSH approved air purifying respirator equipped with universal multi-contaminant multi/gas/vapor cartridges and at least P-99 solid/aerosol particulate filters is recommended if exposure to dusts, mists, or vapors could occur.

Only recommended in the event that ventilation or engineering controls are unable to maintain exposures below recommended levels; or in the event of a spill or other emergency response.

Protective Gloves: Any liquid-tight rubber or vinyl gloves.

Eye Protection: Safety glasses with side shields. As with all chemicals, if splash hazard exists, wear chemical goggles.

Other Protective Clothing: To prevent body contact, impervious clothing, aprons, and boots are recommended. The availability of eye wash stations and safety showers in the work area is recommended.

General Precautions: Avoid breathing vapor/gas/mist/dust/aerosol. Avoid contact with eyes, skin, and clothing. Do not eat, drink or smoke while handling. Wash thoroughly after handling.

Component Exposure Limits:

Octadecyl aminodimethyl trimethyl Ethoxysilylpropyl Ammonium Chloride	OSHA PEL: None established ACGIH TLV: None established
Chloropropyl trimethoxy silane	OSHA PEL: Not found
Methanol	OSHA PEL: 200 ppm ACGIH TLV: 200 ppm TWA

9. PHYSICAL AND CHEMICAL PROPERTIES

Flash Point:	22°C (72°F)
Boiling Point:	Not available
Evaporation Rate	same as water (Butyl Acetate=1)
pH:	Not applicable
Specific Gravity:	0.99 at 20°C (68°F)
Bulk Density:	approx. 8.25 lb/gal
VOC released during cure:	100g/L (estimated value)
Vapor Pressure:	100 (mm/Hg) at 25°C
Solubility:	soluble in water >90%
Appearance and Odor	Colorless to pale yellow liquid, alcoholic odor.

10. STABILITY AND REACTIVITY

Chemical stability: Stable under ordinary conditions of use and storage (70° F, 1 atm)

Hazardous reactions: Will not occur.

Conditions to avoid: None known

Materials to avoid: Strong acids and strong bases (alkali and caustic materials). Reactions cause the formation of ethanol and methanol.

Hazardous Decomposition Products: methanol

11. TOXICOLOGICAL INFORMATION

Toxicity testing has not been performed on this product.

Carcinogens: There are no carcinogenic ingredients present at or over 0.1% in this material. This material does not contain any reproductive toxins at or above OSHA or WHMIS reportable levels.

Oral toxicity: Ingestion of methanol releasing compounds may result in delayed damage to the optic nerves, causing permanent blindness, and if untreated may cause potential fatal toxic effects.

12. ECOLOGICAL INFORMATION

General information: Harmful to aquatic organisms. May have long-term damaging effects on in-shore waters. Prevent material from entering surface waters and soil. The products of hydrolysis are biodegradable. Silicone content: Biologically not degradable.

13. DISPOSAL CONSIDERATIONS

Dispose of product in accordance with applicable local, state, and federal regulations. Small quantities may be disposed of by incineration at an approved facility.

14. TRANSPORT INFORMATION

US DOT & Canada TDG Surface: Not regulated for transport. DOT regulated as a combustible liquid only when packed in bulk containers greater than 119 gallons (450 liters).

IMDG Sea transport: Not regulated for transport. Does not sustain combustion. Not a marine pollutant.

Air transport ICAO-TI/IATA-DGR: Not regulated for transport. Does not support combustion.

15. REGULATORY INFORMATION

TSCA Inventory: This material or its components are listed on or are in compliance with the requirements of the TSCA Chemical substance inventory.

HAPS: Contains the following hazardous air pollutant: methanol

California Proposition 65: This material does not contain any chemicals known to cause cancer or to cause reproductive effects.

WHMIS Classification: Hazard Class = B3 This product has been classified according to the hazard criteria of the Controlled Products Regulation (CPR) and the MSDS contains all of the information required by the CPR.

Canadian Ingredient Disclosure List: This material contains no listed components.

16. OTHER INFORMATION

NFPA Ratings: Health - 1; Flammability - 2; Reactivity - 1.

Date: 21 February 2011

To the best of our knowledge, the facts given are correct. However, the information is given without warranty as to its accuracy.