



SAFETY DATA SHEET

U.S. Department of Labor
Occupational Safety & Health Administration

Polaseal EFM

SECTION 1 - IDENTIFICATION

MANUFACTURER: Andek Corporation
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In an emergency, contact CHEMTREC 1-800- 424-9300;
Outside the United States call +1-703-527-3887
PRODUCT IDENTIFIER: Polaseal EFM
RECOMMENDED USE: Waterproof Fire-Retardant Sealer

SECTION 2 – HAZARD IDENTIFICATION

HAZARD CLASSIFICATION (EFFECTS OF EXPOSURE):

Skin: Irritant

Eyes: Reversible

Inhalation: May cause respiratory tract irritation and may cause lung damage if inhaled as an aerosol.

Ingestion: Small amounts of the liquid aspirated into the respiratory tract during ingestion or vomiting may cause inflammation of the lungs.

SIGNAL WORD: Warning

HAZARD STATEMENTS:

- May be harmful if swallowed and enters airways.
- Causes mild skin irritation.
- Causes eye irritation.
- May cause respiratory irritation.

PICTOGRAMS: None Necessary.

PRECAUTIONARY STATEMENTS:

Prevention:

- Obtain special instructions before use.
- **Do Not** handle until all safety precautions have been read and understood.
- **Do Not** breathe mist or spray.
- **Do Not** get in eyes, on skin, or on clothing.
- Wash thoroughly after handling.
- **Do Not** eat, drink or smoke when using this product.

Response:

- **Skin:** Wash with plenty of water. If skin irritation occurs get medical advice/attention. Take off contaminated clothing and wash it before reuse.
- **Eyes:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do, and continue rinsing.
- **Inhalation:** Remove person to fresh air and keep comfortable for breathing.
- **Ingestion:** Rinse mouth. **Do Not** induce vomiting.

Storage:

- Protect from freezing.
- Store at temperature between 50°F and 80°F.

Disposal:

- Waste disposal should be in accordance with existing federal, state and local environmental control laws.

SECTION 3 – COMPOSITION

<u>CHEMICAL NAME</u>	<u>CAS #</u>	<u>APPROX %</u>
Polydimethylsiloxane with Aminoalkyl Groups	9043-30-5	7.7
Tridecanol Ethoxylate	69011-36-5	1.9
Nochar NFP	Trade secret	9.6
Chlorothalonil (ISO)	1897-45-6	0.4
Methanol	67-56-1	>0.1
Water	7732-18-5	Balance

SECTION 4 – FIRST AID MEASURES

General information:

- Get medical attention if irritation or other symptoms occur.
- Before seeking medical attention remove contaminated clothing and shoes.
- Take a copy of the Safety Data Sheet when going for medical treatment.

Skin:

- Immediately wipe away excess material.
- Use a waterless hand cleaner to remove as much of the remaining material as possible. Wash with soap and water.

Eyes:

- Immediately flush eyes with plenty of water for at least 15 minutes.

Inhalation:

- Remove to fresh air.
- If not breathing give artificial respiration.
- If breathing is difficult give oxygen.

Ingestion:

- **Do not** attempt to induce vomiting.
- If conscious have them rinse their mouth with water, but do not give anything to drink.
- Danger of aspiration.
- Get medical attention.
- Show label if possible

SECTION 5 – FIRE-FIGHTING MEASURES

Flash point: Non Flammable

Flammable limits: None Established

Extinguishing media: Use water spray, foam dry chemical or carbon dioxide. Apply whatever media deemed appropriate for surrounding fire.

Special fire fighting procedures: Persons exposed to products of combustion should wear self-contained breathing apparatus and full protective equipment.

Unusual fire & explosion hazards: There may be a possibility of pressure buildup in closed containers when heated. Water spray may be used to cool the containers.

Decomposition products: Carbon dioxide, carbon monoxide, phosphorous compounds

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions:

- Obtain appropriate PPE, supplies, and equipment prior to attempting any response.
- If material is released indicate risk of slipping. HAZWOPER PPE Level: D

Methods and materials used for containment:

- If safe to do so, stop the leak at its source.
- Cover openings to underground drains and sewers.
- Use loose absorbent material or prefabricated socks to dike around small quantities of spilled material (incidental spills).
- Prevent material from entering surface waters, drains or sewers and soil.
- Spills of material which could reach surface waters must be reported to the United States Coast Guard National Response Center's toll free phone number (800) 424-8802.

Cleanup procedures:

- Liquids may be recovered using suction devices or pumps.
- If flammable, only air driven or properly rated electrical equipment should be used.
- Use absorbent materials to pick up residual liquids.
- After removing as much material as possible, flush the spill area with water.

SECTION 7 – HANDLING & STORAGE

Precautions for safe handling:

- Keep container closed when not in use.
- Use with adequate ventilation.

Recommendations on the conditions for safe storage:

- Store in a dry and sheltered place.
- Store in the original container.
- Store in a warm temperature regulated area to prevent freezing during cold weather conditions.
- Minimum temperature allowed during storage and transportation: 0°C (32°F)
- Do not allow this material to freeze.
- Maximum temperature allowed during storage and transportation: 50°C (122°F)

Advice for storage of incompatible materials: No restriction.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits:

CHEMICAL NAME	PEL	TLV
Methanol	260 mg/m ³	200 ppm

Engineering controls:

Ventilation: Use with adequate ventilation.

Local exhaust:

- No special ventilation required.
- If spraying or other aerosol generating operations are performed, local exhaust ventilation designed to capture mists and sprays, such as a paint spray booth, is recommended.

Individual protection measures:

Inhalation protection:

- Respiratory protection is not normally required.
- If spraying or other operations which generate an aerosol mist are conducted, 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 overexposure to dusts, mists, or vapors could occur.

Eye protection: Safety glasses with side shields or chemical safety goggles

Skin and body protections: Any liquid-tight rubber or vinyl gloves

Other hygienic practices and protective equipment:

- Provide eye bath and safety shower.
- Long pants and long sleeved shirts.
- Additional protective clothing or equipment is not normally required.
- Avoid breathing mist.
- Avoid contact with eyes, skin and clothing.
- **Do Not** eat or drink when handling.
- Wash thoroughly after handling.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Cloudy Liquid

Physical state: Liquid

Color: Translucent White

Odor: Slight, indeterminate

Odor threshold: Not established

pH: 7.5

Melting point/freezing point: 32°F (0°C)

Initial boiling point and boiling range: 212°F (100°C)

Flash point: 199°F (93°C)

Evaporation rate: 1.0 (water = 1)

Flammability: Non Flammable

Upper/lower flammability or explosive limits: Not established

Vapor pressure: Not determined
Vapor density: Not determined
Relative density: 0.95kg/lt
Solubility: Miscible with water
Partition coefficient: n-octanol/water: Not established
Auto-ignition temperature: Not determined
Decomposition temperature: Not determined
Viscosity: 30 centipoises at 20°C

SECTION 10 – STABILITY AND REACTIVITY

Reactivity: Hazardous polymerization cannot occur

Chemical stability: Stable under normal conditions of use.

Incompatibility (materials to avoid):

- Strong acids. Bases (alkali or caustic materials).
- Oxidizing materials (oxygen, oxidizers, peroxides, etc.)

Hazardous decomposition products: None

Conditions to avoid:

- Keep away from incompatible substances.
- Although this product is not expected to react with commonly used materials of construction and process equipment, it is advised that any rubber or plastic items such as hoses and gaskets be tested prior to large scale processing to ensure there is no degradation of performance or durability

SECTION 11 – TOXICOLOGICAL INFORMATION

Acute Toxicity Assessment:

Inhalable aerosols containing amino functional polysiloxanes may cause harmful effects in the lung in animal experiments. Due to the large number of influencing parameters (e.g. amine function, degree of substitution, viscosity, composition) an estimation of the toxicological effect on the lung is not possible for untested products of this category. In such cases exposure to inhalable aerosols must be prevented by adequate technical measures.

Numerical measures of toxicity:

CHEMICAL NAME	Oral LD50 (rat)	Dermal LD50	Inhalation LC50
Chlorothalonil	4,100 mg/kg	2,000 mg/kg (rat)	0.13 mg/lt (4hr. rat)
Polydimethylsiloxane with Aminoalkyl Groups	>2,000 mg/kg	>2,000 mg/kg (rabbit)	N/A
Nochar NFP	2,840 mg/kg	2,000 mg/kg (rabbit)	N/A

Symptoms associated with exposure:

Product(s) of hydrolysis: According to literature, ethanol (67-17-5) irritates the mucous membranes, slightly irritates the skin, degrades the skin, is narcotic and may cause liver damage

Sensitization: No sensitizing effects known

Chemical listed in NTP or IARC? Not listed

SECTION 12 – ECOLOGICAL INFORMATION

Data from toxicity test (aquatic and/or terrestrial organism where available): 5 columns

CHEMICAL NAME	Algae/Aquatic Plants	Fish LC50	Toxicity to Microorganism	Crustacea (Aquatic Invertebrates) LC50
Chlorothalonil (ISO)	EC50 - 0.21 mg/l (Selenastrum capricornutum) 120h	62 mg/l (Bluegill sunfish) 96h	N/A	N/A
Polydimethylsiloxane with Aminoalkyl Groups	None expected	>100 mg/l (Zebra fish - Danio rerio) 96 h	EC50 >1,000 mg/l (Sludge) 3 h	N/A
Nochar NFP	EC10 - 24 mg/l (Green Algae - Scenedesmus subspicatus) 96h	100 mg/l (Rainbow trout S. gairdneri (embryo-larval stage)) 32d	N/A	133 mg/l (Daphnids - Daphnia magna straus) 48 h

Biodegradation: Solid portion is not readily biodegradable.

Bioaccumulation potential: Bioaccumulation is not expected to occur.

Mobility in soil: No adverse effects expected.

Other adverse effects: Depending on concentration, toxic effects on activated sludge organisms are possible. Chlorothalonil can affect the AOX-value of the effluent water.

SECTION 13 – DISPOSAL CONSIDERATIONS

Disposal of waste:

- Material designated for disposal should be segregated from any substances or materials specified in Sect. 10 "Stability and reactivity".
- Material that cannot be used or chemically reprocessed should be disposed of at an approved facility in accordance with any applicable governmental regulations.
- State and local regulations may be more stringent than federal regulations.

Disposal of contaminated packaging:

- Uncleaned packaging should be treated with the same precautions as the material.
- Uncleaned containers should not be reused to hold another material due to the potential for reaction between residual product and incompatible materials.
- After emptying contaminated containers may be cleansed and recycled.

SECTION 14 – TRANSPORT INFORMATION

UN #	N/A
UN PROPER SHIPPING NAME:	Waterproofing compound
HAZARD CLASS:	None
PACKING GROUP:	N/A
ENVIRONMENTAL HAZARDS:	N/A
GUIDANCE ON TRANSPORT IN BULK	N/A

Transport labels required: This material is not regulated by the D.O.T.

SECTION 15 – REGULATORY INFORMATION

US Federal Regulation:

SARA 311/312 Hazard Categories:

This material or its components are listed or are in compliance with the requirements of the TSCA chemical substance inventory.

SARA 313 (Specific toxic chemical listings):

CHEMICAL NAME	CAS #
Chlorothalonil (ISO)	1897-45-6

US State Right to Know Regulations: New Jersey, Massachusetts, Pennsylvania, Rhode Island

CHEMICAL NAME	CAS #
No listed components	

CA Prop 65

CHEMICAL NAME	CAS#
Methanol	67-56-1
Chlorothalonil (ISO)	Present but is below the level that requires a proposition 65 warning.

Canada

CHEMICAL NAME	CAS#
All components	Not listed

SECTION 16 – OTHER INFORMATION (HMIS RATING)

Health	1
Flammability	0
Physical Hazard	0
Personal Protection	B

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