



SAFETY DATA SHEET

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

Polaseal Penetrant Hardener

SECTION 1 - IDENTIFICATION

MANUFACTURER: Andek Corporation
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PRODUCT IDENTIFIER: Polaseal Penetrant Hardener
RECOMMENDED USE: Penetrative Sealer

SECTION 2 – HAZARD IDENTIFICATION

HAZARD CLASSIFICATION (EFFECTS OF EXPOSURE):

Skin: No irritation hazard in normal industrial use.
Eyes: No irritation hazard in normal industrial use.
Inhalation: No irritation hazard in normal industrial use.
Ingestion: Ingestion of large amounts may cause nausea and/or constipation.
Sensitization: Does not cause sensitization.

SIGNAL WORD: Warning - No hazard in normal industrial use.

HAZARD STATEMENTS:

Not classified as dangerous for use.

PICTOGRAMS: None Necessary

PRECAUTIONARY STATEMENTS:

Prevention:

- **Do Not** handle until all safety precautions have been read and understood.
- **Do Not** breathe dust 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 affected areas thoroughly with soap and water. Wash contaminated clothing before reuse.
- **Eyes:** Use eyewash to remove substance from eyes. Get medical advice if irritation develops.
- **Inhalation:** Call a POISON CENTER/ doctor if spray or dust is inhaled
- **Ingestion:** **Do Not** induce vomiting. Get Medical advice/attention if you feel unwell. Rinse mouth.

Storage:

- Store in a cool dry place
- **Do Not** allow this material to freeze

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>
Water	7732-18-5	84
Potassium Silicate Polymer	1312-76-1	15
Alcohol, Isopropyl	67-63-0	1

SECTION 4 – FIRST AID MEASURES

Skin: Wash with soap and water.

Eyes: Flush with plenty of water to remove any substance in the eyes. Remove contact lenses if present. Seek medical advice if irritation develops.

Inhalation: If mist (over spray) or dust (from sanding) is inhaled, move person to fresh air. If person is not breathing, call 911 or an ambulance and then give artificial respiration. Call for medical attention.

Ingestion: **Do Not** induce vomiting. Seek medical attention if symptoms develop.

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:

- Wear safety glasses when handling this product.
- No adverse health effects expected from the clean-up of spilled material.

Cleanup procedures:

- Dike if necessary, contain spill with inert absorbent and transfer to containers for disposal.
- Keep spilled product out of sewers, watersheds, or water systems.

SECTION 7 – HANDLING & STORAGE

Precautions for safe handling:

- No special handling instructions due to toxicity.
- **Do Not** store in aluminum vessels.

Recommendations on the conditions for safe storage: Store in a cool, dry place.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits:

CHEMICAL NAME	Occupational Exposure Limits
Silicic acid, potassium salt	No Occupational Exposure Limit assigned. An exposure limit of 2 mg/m ³ (15 min TWA) is recommended by analogy with potassium hydroxide (UK H40).

Engineering controls:

- No exposure limits exist for the constituents of this product.
- No engineering controls are likely to be required to maintain operator comfort under normal conditions of use.

Inhalation protection:

- No respiratory protection required under normal conditions of use.
- Respirators should be selected by and used following requirements found in OSHA's respirator standard (29 CFR 1910.134).

Eye protection: Wear safety glasses when handling this product.

Skin and body protections:

- Not normally considered a skin hazard.
- Where use can result in skin contact, practice good personal hygiene.
- Wash hands and other exposed areas with mild soap and water before eating, drinking and when leaving work.

Other hygienic practices and protective equipment: Use nitrile gloves if conditions warrant.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear liquid

Physical state: Liquid

Color: Transparent

Odor: Practically odorless, slight smell of rubbing alcohol

Odor threshold: None established

pH: 9.5

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

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

Flash point: None

Evaporation rate: 1.0 (water =1)

Flammability: Non flammable

Upper/lower flammability or explosive limits: None

Vapor pressure: 23 hPa (17 mmHg) @ 20°C (68°F)

Vapor density: 1.24 g/cm³ @ 20°C (68°F)

Relative density: 1.50 kg/Lt

Solubility: Completely miscible

Partition coefficient: n-octanol/water: None established

Auto-ignition temperature: None

Decomposition temperature: None established

Viscosity: 20 centipoises @ 20°C (68°F)

SECTION 10 – STABILITY AND REACTIVITY

Reactivity:

- Will react with aluminum, zinc, tin and their alloys evolving hydrogen gas which can form an explosive mixture with air.
- Can react violently if in contact with acids.
- Avoid electrolysis hazards caused by ARC welding.
- Product can react with sugar to form carbon monoxide.

Chemical stability: Stable

Incompatibility: See reactivity statement above.

Hazardous decomposition products: None known

Conditions to avoid: See reactivity statement above.

SECTION 11 – TOXICOLOGICAL INFORMATION

Acute toxicity:**Ingestion**

- All symptoms of acute toxicity are due to high alkalinity.
- Material will cause irritation.
- Oral LD50 (rat) >5000 mg/kg bw

Inhalation:

- All symptoms of acute toxicity are due to high alkalinity.
- Mist is an irritant to the respiratory tract.
- Inhalation LC50 (rat) >2.06 g/m³

Skin Contact:

- Repeated and/or prolonged skin contact may cause slight irritation.
- Dermal LD50 (rat) >5000 mg/kg bw

Irritation/damage:**Eye Contact:**

- Liquid or mist may cause discomfort and mild irritation.

Skin corrosion/irritation:

- Repeated and/or prolonged skin contact may cause slight irritation.

Serious eye damage/irritation:

- Liquid or mist may cause discomfort and mild irritation.

Sensitization:

- Not sensitizing.

Mutagenicity:

- No evidence of genotoxicity.
- In vitro/in vivo negative.

Carcinogenicity:

- No structural alerts.

Reproductive toxicity:

- No evidence of reproductive toxicity or developmental toxicity.

STOT - single exposure:

- Not classified

STOT - repeated exposure:

- Not classified. NOAEL oral (rat) 159 mg/kg bw/d

Aspiration hazard:

- Not classified

SECTION 12 – ECOLOGICAL INFORMATION

Toxicity:

- Fish (*Leuciscus idus*) LC50 (48 hour) >146 mg/l
- Aquatic invertebrates: (*Daphnia magna*) EC50 (24 hour) >146 mg/l

Persistence and degradability:

- Inorganic
- Soluble silicates, upon dilution, rapidly depolymerize into molecular species indistinguishable from natural dissolved silica.

Bioaccumulative potential:

- Inorganic.
- The substance has no potential for bioaccumulation.

Mobility in soil:

- Not applicable

Results of PBT and vPvB assessment:

- Not classified as PBT or vPvB

Other adverse effects:

- The alkalinity of this material will have a local effect on ecosystems sensitive to changes in pH.

SECTION 13 – DISPOSAL CONSIDERATIONS

To the best of our knowledge, this product does not meet the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261. Solidify and dispose of in an approved landfill. Consult state, local or provincial authorities for more restrictive requirements.

SECTION 14 – TRANSPORT INFORMATION

UN #	N/A
UN PROPER SHIPPING NAME:	Waterproofing compound
HAZARD CLASS:	N/A
PACKING GROUP:	N/A
ENVIRONMENTAL HAZARDS:	N/A
GUIDANCE ON TRANSPORT IN BULK:	N/A

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

SECTION 15 – REGULATORY INFORMATION

TSCA inventory status: reported/included

AICS inventory status: reported/included

SECTION 16 – OTHER INFORMATION (HMIS RATING)

Health	1
Flammability	0
Physical Hazard	0
Personal Protection	B

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