



**MATERIAL SAFETY DATA SHEET**  
U.S. Department of Labor  
Occupational Safety & Health Administration

**POLASEAL PENETRANT HARDENER**

**SECTION I – IDENTIFIER**

MANUFACTURER: Andek Corporation  
ADDRESS: 850 Glen Avenue, P.O. Box 392, Moorestown, NJ 08057 USA  
TELEPHONE: 1-856-786-6900  
In an emergency, contact CHEMTREC toll-free at 1-800-424-9300  
Outside the United States call 1-703-527-3887  
TRADE NAME: Polaseal Penetrant Hardener  
CHEMICAL FAMILY: Potassium Salt of Polymeric Silicate

**SECTION II - COMPOSITION**

COMPONENT	CAS #	APPROX %	TLV
Water	7732-18-5	84	
Potassium Silicate Polymer	1312-76-1	15	
Alcohol, Isopropyl	67-63-0	1	

KNOWN CARCINOGENS OR MUTAGENS – TYPE & DEFINITION - None

**SECTION III – PHYSICAL DATA**

<b>BOILING POINT (F)</b>	230°	<b>SPECIFIC GRAVITY (H20=1)</b>	1.2
<b>VAPOR PRESSURE</b>	760	<b>PERCENT, VOLATILE BY VOLUME</b>	85
<b>VAPOR DENSITY (AIR=1)</b>	As Water	<b>EVAPORATION RATE (N.B.A.=1)</b>	<1
<b>SOLUBILITY IN WATER</b>	Soluble	<b>pH</b>	9.5

APPEARANCE & ODOR  
Translucent liquid, no odor.

#### **SECTION IV - FIRE & EXPLOSION HAZARD DATA**

---

FLASH POINT (METHOD USED): Non-combustible

FLAMMABLE LIMITS: N/A

EXTINGUISHING MEDIA: N/A

SPECIAL FIRE FIGHTING PROCEDURES: None

UNUSUAL FIRE & EXPLOSION HAZARDS: None

DECOMPOSITION PRODUCTS: See section VI

#### **SECTION V - HEALTH HAZARD DATA**

---

##### *EFFECTS OF OVEREXPOSURE:*

SKIN: Causes skin irritation.

EYES: Causes skin irritation.

BREATHING: Inhalation of mist will cause irritation to the upper respiratory tract.

SWALLOWING: Harmful or fatal if swallowed.

##### *FIRST AID PROCEDURES:*

SKIN: Wash with water for 15 minutes.

EYES: Flush with water for 15 minutes and immediately secure medical attention.

BREATHING: Move victim to fresh air.

SWALLOWING: Dilute with milk or water; immediately contact a physician.

#### **SECTION VI - REACTIVITY DATA**

---

STABILITY: Stable.

INCOMPATIBILITY (MATERIALS TO AVOID): Strong acids will cause gelling.

HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen gas.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Flammable hydrogen gas may be produced on prolonged contact with metals such as aluminum, tin, lead and zinc.

#### **SECTION VII - SPILL OR LEAK PROCEDURES**

---

##### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Cover with a layer of sand or absorbent material.

##### WASTE DISPOSAL METHOD:

In accordance with local, state and federal regulations.

## **SECTION VIII - SPECIAL PROTECTION INFORMATION**

---

RESPIRATORY PROTECTION (SPECIFY TYPE): Where spray mist occurs, use NIOSH approved respirator.

EYE PROTECTION: Chemical splash goggles.

SKIN PROTECTION: Neoprene rubber or polyethylene gloves.

OTHER PROTECTIVE EQUIPMENT: Coveralls and/or rubber apron, rubber shoes or boots.

PERSONAL HYGIENE: Wash after applying product.

## **SECTION IX - SPECIAL PRECAUTIONS**

---

PRECAUTIONS TO BE TAKEN IN HANDLING:

Avoid prolonged contact with skin. Do not consume food or beverage while handling. Do not allow to freeze; otherwise material will be unusable and require disposal.

*This information accumulated herein is believed to be accurate but is not warranted to be, whether originating with the company or not. Recipients are advised to confirm, in advance of need, that the information is current, applicable and suitable to their circumstances.*

Date Issued: January 2005

Copyright Andek Corporation 2005. All rights reserved.