



# Predictive Oncology<sup>®</sup>

## Material Safety Data Sheet Predictive Oncology<sup>™</sup> ESP<sup>™</sup> Protease Solution

### Section 1 - Chemical Product and Company Identification

**MSDS Name:** POAI<sup>™</sup> ESP Protease Solution

**Catalog Numbers:** ESP-9001.01

**Synonyms:**

**Company Identification:**

Predictive Oncology, Inc.

200 Riverhills Business Park, Suite 250

Birmingham, AL 35242

**For information, call:** 205-922-5403

**Emergency Number:**

**For CHEMTREC assistance, call:** 800-424-9300

**For International CHEMTREC assistance, call:** 703-527-3887

### Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
	POAI <sup>™</sup> ESP Protease Solution	>99	
7732-18-5	Water	<0.5	231-791-2

### Section 3 - Hazards Identification

#### EMERGENCY OVERVIEW

Irritating to eyes, respiratory system and skin. May cause sensitization by inhalation.

#### Potential Health Effects

**Eye:** Causes eye irritation.

**Skin:** Causes skin irritation. May be harmful if absorbed through the skin.

**Ingestion:** May cause irritation of the digestive tract. May be harmful if swallowed.

**Inhalation:** Causes respiratory tract irritation. May be harmful if inhaled. May cause respiratory sensitization.

**Chronic:**

## Section 4 - First Aid Measures

**Eyes:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

**Skin:** Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

**Ingestion:** Get medical aid. Wash mouth out with water.

**Inhalation:** Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

**Notes to Physician:** Treat symptomatically and supportively.

## Section 5 - Fire Fighting Measures

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

**Extinguishing Media:** Use water spray, dry chemical, carbon dioxide, or chemical foam.

## Section 6 - Accidental Release Measures

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions. Do not let this chemical enter the environment.

## Section 7 - Handling and Storage

**Handling:** Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes. Avoid ingestion and inhalation. Use only in a chemical fume hood.

**Storage:** Store in a tightly closed container. Store in a dry area. Keep refrigerated. (Store below 4°C/39°F).

## Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

### Personal Protective Equipment

**Eyes:** Wear splash goggles.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

## Section 9 - Physical and Chemical Properties

**Physical State:** Powder

**Appearance:** Yellowish - fine

**Odor:** Characteristic odor.

**pH:** Not available.

**Vapor Pressure:** Not available.

**Vapor Density:** Not available.

**Evaporation Rate:** Not available.

**Viscosity:** Not available.

**Boiling Point:** Not applicable.  
**Freezing/Melting Point:** Not available.  
**Decomposition Temperature:**  
**Solubility:** Soluble.  
**Specific Gravity/Density:**  
**Molecular Formula:**  
**Molecular Weight:**

### Section 10 - Stability and Reactivity

**Chemical Stability:** Not available.  
**Conditions to Avoid:** Incompatible materials, dust generation.  
**Incompatibilities with Other Materials:** Strong oxidizing agents, alcohols, alkalies, heavy metal salts.  
**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide.  
**Hazardous Polymerization:** Will not occur.

### Section 11 - Toxicological Information

**LD50/LC50:** RTECS: Not available.  
**Carcinogenicity:** Not listed as a carcinogen by ACGHI, IARC, NTP, or CA Prop 65.  
**Other Studies:** See actual entry in RTECS for complete information.

### Section 12 - Ecological Information

**Other:** Do not empty into drains.

### Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulation.

### Section 14 - Transport Information

	IATA	IMO	RID/ADR
<b>Shipping Name:</b>	Not regulated.	Not regulated.	Not regulated.
<b>Hazard Class:</b>			
<b>UN Number:</b>			
<b>Packing Group:</b>			

### Section 15 - Regulatory Information

#### EUROPEAN/INTERNATIONAL REGULATIONS

European labeling in Accordance with EC Directives.

Hazard Symbols: XN

Risk Phrases:

R 36/37/38 Irritating to eyes, respiratory system, and skin.

R 42 May cause sensitization by inhalation.

Safety Phrases:

S 22 Do not breathe dust.

S24 Avoid contact with skin.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 36/37 Wear suitable protective clothing and gloves.

WGK (Water Danger/Protection)

CAS# 9001-75-6: 0

## Section 16 - Additional Information

**MSDS Creation Date:** 7/16/1996

**Revision #1 Date:** 3/03/2008

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