# PRODUCT INFORMATION Horseradish Peroxidase

Catalog Number: 2402-1

**Description:** Pure Horseradish Peroxidase, EIA grade, 1mg

Lot Number:

Protein 97%

Concentration:

Activity: 300 µ/mg solid.

**Specific Activity:** 309 units per mg protein.

**Buffer:** Distilled H<sub>2</sub>O or dilute Buffer.

**RZ Value:** 3.25

**Storage:** Store frozen at -20°C. Powder can also be stored refrigerated at 5-8°C.

**Stability:** Stable for more than 1 year when stored in powder form at 5-8°C.

Caution: Refer to the enclosed MSDS for information regarding Avidin. The

aluminum seals have sharp edges and the vial itself may have cracks

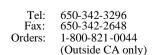
which can cause lacerations. Use caution when opening the vial.

**Remarks:** Unit Definition: The amount of enzyme causing the production of one

milligram of purpurgallin in 20 seconds at 25°C under the given assay

conditions.







Tel:

Fax:

Orders:

650-342-3296

650-342-2648

1-800-821-0044

(Outside CA only)

# MATERIAL SAFETY DATA SHEET

Effective Date: March 31, 2006 Revision 5 Page 1 of 2

#### PRODUCT IDENTIFICATION

Name: Crude and purified protein and enzymes.

Catalog Number (s): P-01, 2402, 2404, EC-32118, EC-32118S, E-34424, EC-34424, BA-000, BA-002,

NP-01 to NP-05, B-1201 to B-4601, L-1102 to L-9000, AT-2100 to AT-2701, AF-001 to AF-2354, AL-1104 to AL-4701.13-600 to 13-607, DM1011P to

DM1064P

Formula: Complex polypeptides.

Protein A, Horseradish Peroxidase, Laminin (mouse), Neuraminidase, Bromelain, Synonyms:

Avidin (egg white), Glycosylated Boyine Serum Albumin, Lectins, Secondary and

Monoclonal Antibodies, other Antisera.

### **EMERGENCY INFORMATION**

EY Laboratories, Inc. **EMERGENCY PHONE:** 107 North Amphlett Blvd. 650-342-3296 San Mateo, CA 94401

#### HAZARDOUS COMPONENTS

Specific protein (s) as listed on the vial label. Solutions are at a concentration generally greater than 0.5mg protein/ml. Powders are generally greater than 95% specific protein unless otherwise indicated on the vial label or product information sheet. Biological activity of these proteins will vary. Although these materials are not generally considered to be hazardous they may cause allergic responses in sensitive individuals if inhaled or allowed to contact skin.

#### HEALTH HAZARD INFORMATION

EXPOSURE LIMITS: None established. The toxicological properties of these products have not been

thoroughly investigated. Care should be taken when handling any of these

materials.

EFFECTS OF Any of these proteins may cause acute localized eye, skin, or mucous

OVEREXPOSURE: membrane irritation. Some sensitive individuals may develop a chronic allergic

ROUTES OF Inhalation of powders and skin contact with liquids are the primary routes of

**EXPOSURE:** exposure. Care should be taken to avoid the formation of aerosols when

handling any of the solutions.

## PHYSICAL CHARACTERISTICS

APPEARANCE: Powders may be white to amber brown in color. Solutions may be translucent to

SOLUBILITY: Powders are completely soluble in many biological buffers. Some are soluble in

water. All liquids are completely miscible in water and biological buffers

FIRE AND EXPLOSION HAZARDS Not considered to be a fire hazard.

EXTINGUISHING MEDIA: Water spray or CO2. SPECIAL FIRE FIGHTING PRECAUTIONS: None required.

LABORATORIES, INC.

650-342-3296 07 North Amphlett Blvd. San Mateo, CA 94401 650-342-2648 Fax: Orders: 1-800-821-0044 (Outside CA only)

## MSDS for Crude and Purified Proteins and Enzymes Continued - page 2 of 2.

NOTE: Most solutions contain 0.05% sodium azide as a preservative. Azide may react with lead and copper plumbing to form explosive metal azides. Flush with copious amounts of water when disposing material in the sink.

### REACTIVITY DATA

STABILITY: Stable. Decomposition products are not known to be

hazardous.

HAZARDOUS POLYMERIZATION: Will NOT occur.

INCOMPATIBILITY: None known. (Lead and copper may react with sodium

azide).

# SPILL / LEAK PROCEDURES

MATERIAL RELEASE / SPILL: Avoid contact with powder or liquid. Clean up spill with a

paper towel soaked in household bleach. Do not allow solutions to dry on environmental surfaces. Wash affected area with detergent after the area has been treated with

WASTE DISPOSAL: Incinerate, autoclave, or dispose of paper waste in

accordance with all Local, State, and Federal regulations. Due to the small quantities of material involved these products are generally not considered to be environmental hazards. All of these proteins are fully biodegradable.

## **EMERGENCY FIRST AID PROCEDURES**

May be harmful if swallowed, inhaled, or allowed to absorb through the skin. Wash contacted area with water for 15 minutes. If inhaled remove to fresh air, Report exposure to the appropriate safety official. Consult a physician if irritation occurs or if there is any indication of an allergic response such as watering eyes, sneezing, or difficulty breathing

# SPECIAL HANDLING PRECAUTIONS

VENTILATION: No special ventilation is required but it is recommended to

handle these reagents in a fume hood when possible.

EYE PROTECTION: Not required under most circumstances but recommended as

a safety precaution.

RESPIRATORY PROTECTION: Recommended as a safety precaution, specifically when

working with powders. An approved respirator may be required for those individuals already known to be sensitive

to these materials.

PROTECTIVE GLOVES: Required when handling any of these materials.

#### SPECIAL PRECAUTIONS

This material is for research and experimental application only. It is not intended for food, drug, household, agricultural, or cosmetic use. All materials should be handled only by technically qualified individuals experienced with working with potentially hazardous chemicals. The above information is correct to the best of our knowledge. The user should make independent decisions regarding completeness of the information, based on all sources available. EY Laboratories, Inc. shall not be held liable for any damage resulting from handling or contact with the above product.

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