



## MATERIAL SAFETY DATA SHEET

Telephone: (978)927-5054  
Toll free: (800)632-5227  
Fax: (978)921-1350  
E-mail: info@neb.com  
Revision Date: 1/10

**Phosphatase  
M0289**

### SECTION 1—CHEMICAL INFORMATION

Product Name: Antartic Phosphatase

Sara 313: No

Cas.# None

### SECTION 2—COMPOSITION/INFORMATION ON INGREDIENT

1. Glycerol	50%	Cas.# 56-81-5
2. Tris-HCl	< 1%	Cas.# 77-86-1
3. Magnesium Chloride	< 1%	Cas.# 7786-30-3
4. Dithiothreitol	< 1%	Cas.# 3483-12-3

### SECTION 3—HAZARDOUS IDENTIFICATION

**Emergency Overview:** The hazards identified with this product are those associated with the following component: None

**OSHA Hazards:** No known hazards.

#### HMIS Rating

Health: 1\*

Flammability: 0

Reactivity: 1

#### NFPA Rating

Health: 1

Flammability: 0

Reactivity: 1

\*Additional chronic hazards present.

### SECTION 4—FIRST AID MEASURES

**Oral Exposure:** If swallowed, wash out mouth with water provided person is conscious. Call a physician.

**Inhalation Exposure:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

**Dermal Exposure:** In case of contact, immediately wash skin with soap and copious amounts of water.

**Eye Exposure:** In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

### SECTION 5—FIRE FIGHTING MEASURES

**Extinguishing Media:** Water spray. Carbon dioxide, dry chemical powder or appropriate foam.

**Special Fire Fighting Procedures:** Wear self contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

**Fire and Explosion Hazards:** Combustible liquid. Emits toxic fumes under fire conditions.

**Flammability:** N/A

### SECTION 6—ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Exercise appropriate precaution to minimize direct contact with skin or eyes. Avoid dust formation.

**Environmental Precautions:** Do not let product enter drains.

**Methods For Cleaning Up:** Cover with dry lime, sand, or soda ash. Sweep up and shovel. Place in covered container for disposal.

## SECTION 7—HANDLING AND STORAGE

**Handling:** Provide appropriate exhaust ventilation.

**Storage:** Keep tightly closed in a dry and well ventilated place. Store at -20°C .

## SECTION 8—EXPOSURE CONTROLS/PPE

**Engineering Controls:** Safety shower and eye bath. Mechanical exhaust required.

**Personal Protective Equipment:** Gloves suitable to prevent exposure.

**Hand:** Compatible chemical-resistant gloves.

**Eye:** Chemical safety goggles.

**Skin Specific:** Chemical resistant

**General Hygiene Measures:** Wash hands thoroughly after handling. Wash contaminated clothing before use.

**Respiratory Protection:** None required.

## SECTION 9—PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Clear Liquid

**Color:** Colorless

<u>Property</u>	<u>Value</u>	<u>Temperature or Pressure</u>
Boiling Point Range:		182°C
Melting Point Range:		20°C
Flash Point:		320°F, 160°C Method: Closed cup
Auto Ignition Temp:		370°C
Vapor Pressure:	< 1 mmHg	20°C
Vapor Density:	3.1 g/l	
Specific Gravity:	1.262	
Solubility in Water:	Soluble	

## SECTION 10—STABILITY AND REACTIVITY

**Stability:** Stable under recommended storage conditions.

**Materials to Avoid:** Acid chlorides, Phosphorus halides, strong oxidizing agents, strong acids, strong reducing agents.

**Hazardous Decomposition Products:** Carbon monoxide, Carbon dioxide, Sulfur dioxides.

**Hazardous Polymerization:** Will not occur.

## SECTION 11—TOXICOLOGICAL INFORMATION

### Route of Exposure

**Skin Absorption:** May be harmful if absorbed.

**Contact:** May cause skin irritation.

**Eye Contact:** May cause eye irritation.

**Inhalation:** May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

**Ingestion:** May be harmful if swallowed.

## SECTION 12—ECOLOGICAL INFORMATION

Data not available at this time.

## SECTION 13—DISPOSAL CONSIDERATIONS

**Appropriate Method of Disposal of Substance or Preparation:** Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state and local environmental regulations.

## **SECTION 14—TRANSPORT INFORMATION**

### **DOT**

Proper Shipping Name: None  
Non-hazardous for air transport.

### **IMDG**

Non-hazardous

### **IATA**

Hazard Label: None  
Non-hazardous for air transport.

## **SECTION 15—REGULATORY INFORMATION**

**OSHA Hazards:** None known.

### **US Classification and Label Test**

**US Statements:** Caution. Avoid contact and inhalation. Target Organ (s): Kidneys.

### **United States Regulatory Information:**

Sara Listed: No

TSCA Inventory Item: Yes

### **Canada Regulatory Information**

**WHMIS Classification:** This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

**DSL:** Yes

**NDSL:** No

### **EU Additional Classification**

S: 23 24/25

Safety Statements: Do not breath vapor. Avoid contact with skin and eyes.

### **Massachusetts Right To Know Components**

Not subject to the Massachusetts Right to Know Act

## **SECTION 16—OTHER INFORMATION**

### **DISCLAIMER**

For R & D use only. Not for drug, household or other uses.

**The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. New England Biolabs shall not be held liable for any damage resulting from handling or from contact with the above product.**