



## MATERIAL SAFETY DATA SHEET

### GlyPro® Calibrator

#### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** GlyPro® Calibrator

**Product Number:** 70-5127-01; 70-5127-05; 70-5527-25

**Product Use:** For use in the calibration of the GlyPro® assay. For In Vitro Diagnostic Use Only.

**Description:** Dry pellet containing human serum, antibiotic and trace buffer.

**Corporate Headquarters**

**Genzyme Corporation**

500 Kendall Street  
Cambridge, MA 02142  
USA

**Phone:** 617-252-7500

**Manufacturer/Distributor**

**Genzyme Diagnostics**

50 Gibson Drive  
Kings Hill, West Malling  
Kent, ME19 4AF

UK

**Phone:** 44 (0) 1732 220022

**Emergency Telephone Numbers**

**Genzyme (U.S.):** 617-562-4555

**CHEMTREC (U.S.):** 800-424-9300

**CHEMTREC (Outside U.S.):** 703-527-3887

#### 2. HAZARDS IDENTIFICATION

**Precautionary Statements:**

CAUTION! The chemical, physical and toxicological properties of this preparation have not been thoroughly characterized. Avoid contact with eyes and skin. Do not ingest or inhale. The human serum in this preparation was tested by FDA-approved methods and found to be negative for the presence of hepatitis B virus surface antigen (HBsAg), human immunodeficiency virus (HIV) 1 & 2 and hepatitis C virus (HCV). However, because no test method can provide complete assurance that infectious agents are absent, this product should be handled as a potentially biohazardous material in accordance with universal/standard precautions. Preparation appearance: off-white pellet.

**Routes of Exposure:**

Occupational exposure routes may include eye and skin contact.

**Potential Health Effects:**

**Inhalation** No data available.

**Eye** No data available.

**Skin** No data available.

**Ingestion** No data available.

**Chronic Effects** No data available.

**Medical Conditions Aggravated By Exposure** Individuals with preexisting allergies to gentamicin sulfate antibiotic may be more susceptible to health effects from accidental exposure and should be evaluated for their suitability for working with this product.

**Target Organs** Unknown.

**Regulatory Status:**

This preparation is not classified as hazardous under U.S. OSHA 29 CFR 1910.1200; E.C. Directive 1999/45/EC; Canadian R.S. 1985, c. H-3; U.K. CHIP 2002 No. 1689; and/or U.N. GHS ST/SG/AC 10/30. Refer to Sec. 15, Regulatory Information, for details regarding hazard classification.

None of the components present in this preparation at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

**Potential Environmental Effects:**

Unknown.



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#### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name	CAS #	EC #	% (wt/wt)
Human serum, glycated and non-glycated <b>EC R-Phrases:</b> None	Not Assigned <b>EC Hazard Class:</b> None	Not Assigned	> 99.99
Gentamicin sulfate <b>EC R-Phrases:</b> None	1405-41-0 <b>EC Hazard Class:</b> None	215-778-9	< 0.01

#### 4. FIRST AID MEASURES

**General Advice:**

In the event of occupational exposure, follow company-specific bloodborne pathogen post-exposure requirements.

**Inhalation:**

If inhaled, move from exposure area to fresh air. Seek medical attention if breathing becomes difficult or if cough or other symptoms develop.

**Eye Contact:**

Immediately flush eyes with plenty of tepid water for 15 minutes while separating eyelids with fingers. Remove contact lenses if worn. Obtain medical attention if needed or if symptoms, such as redness or irritation persist.

**Skin Contact:**

In case of contact, flush skin with copious amounts of cool water and remove contaminated clothing. Obtain medical attention if needed or if irritation or other symptoms develop.

**Ingestion:**

In case of ingestion, contact a poison control center or physician for instructions.

#### 5. FIRE FIGHTING MEASURES

**Flammable Properties:**

Material may burn when exposed to sufficient heat.

**Suitable Extinguishing Media:**

Use extinguishing media suitable for surrounding fire, such as carbon dioxide, chemical foam, dry chemical or water spray.

**Unsuitable Extinguishing Media:**

Unknown.

**Specific Hazards Arising from the Chemical:**

Irritating or highly toxic gases may be generated by combustion, including carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>) and sulfur oxides (SO<sub>x</sub>).

**Standard Protective Equipment and Precautions for Firefighters:**

Firefighters should wear NIOSH-approved or equivalent Self-Contained Breathing Apparatus and full protective gear.



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#### 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:**

Wear Personal Protective Equipment (PPE) as indicated in Section 8. Avoid physical contact with material and avoid generating or inhaling dust. Wash hands thoroughly after handling.

**Environmental Precautions:**

No information available.

**Methods and Materials for Containment and Clean-Up:**

Decontaminate the spill site following standard procedures for biohazardous spills. Dispose of materials in accordance with all applicable federal, state, local and provincial environmental regulations, per Section 13. Dispose of materials in accordance with all applicable federal, state, local and provincial environmental regulations, per Section 13.

#### 7. HANDLING AND STORAGE

**Handling:**

Follow universal/standard precautions when preparing or handling this material. See Section 8, Engineering Controls. Minimize contact and contamination of personal clothing and skin. Wash hands thoroughly after handling.

**Storage:**

Store at 2-8°C (35-46°F). Do not store with incompatible substances; see Section 10.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Guidelines:**

There are no ACGIH, NIOSH, OSHA or country-specific occupational exposure limits currently established for components present in this preparation at concentrations equal to or greater than 1% (0.1% if carcinogen).

**Engineering Controls:**

Preparation and handling of this preparation should be performed in accordance with universal/standard precautions. Use local exhaust ventilation. Facilities storing or using this preparation should be equipped with an eyewash fountain.

**Personal Protective Equipment (PPE):**

<b>Respiratory</b>	A respirator is not required under normal conditions of use.
<b>Eye/Face</b>	Wear appropriate protective safety eye glasses or goggles.
<b>Skin</b>	Wear lab coat or other protective garments. Remove contaminated clothing promptly.
<b>Gloves</b>	Wear chemical resistant protective gloves.
<b>General</b>	Follow company-specific safety procedures.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Off-white pellet	<b>pH:</b>	7.3 - 7.5 (in solution)
<b>Odor:</b>	Unknown	<b>Solubility:</b>	Water-soluble
<b>Specific Gravity:</b>	Not available	<b>Vapor Pressure:</b>	Not applicable
<b>Boiling Point:</b>	Not applicable	<b>Partition Coefficient (n-octanol/water):</b>	Not available
<b>Melting Point:</b>	Not available	<b>Vapor Density:</b>	Not applicable
<b>Freezing Point:</b>	Not applicable		



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**Flammability/Explosivity Limits in Air, Lower:** Not applicable  
**Flammability/Explosivity Limits in Air, Upper:** Not applicable  
**Auto-Ignition Temperature:** Not available  
**Flash Point:** Not applicable

## 10. STABILITY AND REACTIVITY

**Chemical Stability:**

Stable under ordinary conditions of use and storage. See Section 7.

**Conditions to Avoid:**

There are no physical conditions known to result in a hazardous situation.

**Incompatible Materials:**

Unknown.

**Hazardous Decomposition Products:**

None expected under normal conditions of use.

**Possibility of Hazardous Reactions:**

Hazardous polymerization will not occur.

## 11. TOXICOLOGICAL INFORMATION

**Acute Effects:**

The human serum in this preparation presents a risk for exposure to infectious agents.

**Chronic Effects:**

No data available.

**Carcinogenicity:**

None of the components present in this preparation at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

**Mutagenicity:**

No data available.

**Teratogenicity:**

No data available.

**Reproductive Effects:**

No data available.

**Sensitization:**

No data available.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity:**

No data available.

**Persistence and Degradability:**

No data available.

**Bioaccumulative Potential:**

No data available.



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**Mobility in Environmental Media:**

No data available.

### 13. DISPOSAL CONSIDERATIONS

**Methods of Disposal:**

Remaining unused material and product waste should be treated as biohazardous/infectious waste and contaminated instruments and surfaces should be disinfected in accordance with your employer's universal/standard precautions.

### 14. TRANSPORT INFORMATION

**Basic Shipping Description:**

Not classified as dangerous goods. Not regulated per IATA and DOT regulations.

### 15. REGULATORY INFORMATION

**US Federal Regulations:**

This preparation is a component of an FDA-regulated in vitro diagnostic device.

**International Regulations:**

If approved for European Communities use, this product is regulated under the In Vitro Diagnostic Medical Devices Directive (98/79/EC).

**Canadian Hazardous Products:**

**WHMIS Status** Exempt

**European Communities Dangerous Substances/Preparations:**

**EC Hazard Class** None

**Risk Phrases** None

**Safety Phrases** None

### 16. OTHER INFORMATION

**Further Information:**

This MSDS has been prepared in accordance with the ANSI Z400.1 format. Every effort has been made to adhere to the hazard criteria and content requirements of the U.S. OSHA Hazard Communication Standard, Canadian Controlled Products Regulation (CPR), UK Chemical Hazard Information and Packaging Regulations, European Communities REACH Regulation, and UN Globally Harmonized System of Classification and Labelling of Chemicals.

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**Version #:** 2

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