



MATERIAL SAFETY DATA SHEET

Catalog No.: E-100
Product Id.: **DOCUMENT**® Enzyme Linearity Test Set
Manufactured by: Microgenics
46360 Fremont Boulevard
Fremont, CA 94538 USA

Effective date: May 2003
Supersedes: June 04, 1999

SECTION 1 - Hazardous Ingredients.

The hazards identified with this product are those identified below.

Hazardous Ingredient: Ethylene Glycol
CAS Number: 107 - 21 - 1, Molecular Weight: 62.07
Synonyms: 1,2 - Ethanediol; Glycol

Chemical Formula: C₂H₆O₂

PRECAUTIONARY INFORMATION

WARNING! HARMFUL OR FATAL IF SWALLOWED.
Wash thoroughly after handling.

EMERGENCY FIRST AID: If swallowed, and patient is conscious, induce vomiting immediately by giving two glasses of water and sticking finger down throat. See Section 6.
DOT Hazard Class: Not regulated
Potentially Biohazardous Ingredient: Alkaline Phosphatase (ALP) from human placenta.

The materials used in the manufacture of this product were tested by an FDA approved method and found to be non-reactive (negative) for the presence of antibodies to HIV 1 / 2 and HBsAg.

Because no test method can offer complete assurance that human immunodeficiency virus (HIV), hepatitis B virus, or other infectious agents are absent, these specimens should be handled at the Biosafety Level 2 as recommended for any potentially infectious human serum or blood specimen in the Centers for Disease Control/National Institutes of Health manual ABiosafety in Microbiological and Biomedical Laboratories, 1984, 11 - 13.

SECTION 2 - Physical Data

Appearance: Pale yellow to amber liquid
Boiling Point: Not Applicable
Evaporation Rate: Not Applicable
Melting Point: Not Applicable
Odor: Slight odor

Solubility: Not Applicable
Specific Gravity: Not Applicable
Vapor Density: Not Applicable
Vapor Pressure: Not Applicable

SECTION 3 - Fire and Explosion Information

Fire: Not Applicable
Explosion: Not Applicable
Fire Extinguishing Media: Not Applicable

NFPA Rating: Health: 1
Flammability: 1
Reactivity: 0

Special Information: Not Applicable

SECTION 4 - Reactivity Data

Stability: **DOCUMENT**® Enzyme Linearity Test Set Solutions are stable through the expiration date printed on each storage container and each individual bottle when stored frozen at -10° to -20° C.

Hazardous Combustion or Decomposition Products: None
Hazardous Polymerization: None
Incompatibilities: Strong oxidizing agents. A chemical reaction may occur with chlorosulfonic acid, oleum, sulfuric acid, and perchloric acid.



SECTION 5 - Leak/Spill Disposal Information

Spills: **DOCUMENT**® Enzyme Linearity Test Set Solutions should be absorbed with an inert material. Work surfaces should be decontaminated with a disinfectant (i.e., sodium hypochlorite, etc.).

Disposal: Ensure compliance with local, state and federal regulations.

SECTION 6 - Health Hazard Information

A. Exposure/Health Effects:

Inhalation: Not expected to be a hazard.

Ingestion: Ethylene glycol in massive dosage may exhibit symptoms parallel to alcohol intoxication, progressing to vomiting, headache, rapid respiratory and heart rate, unconsciousness with convulsions. Death from respiratory arrest or cardiovascular collapse may follow.
Calculated mean lethal dose for **DOCUMENT**® Enzyme Linearity Test Set: 300 mL (9 - 12 ounces) based upon pure ethylene glycol.

Skin Contact: Minor skin irritation and penetration may occur.

Eye Contact: Splashes may cause irritation, pain, eye damage.

Chronic Exposure: No information.

Aggravation of Pre-existing Conditions: Persons with pre-existing skin disorders, eye problems, or impaired liver, kidney or respiratory function may be more susceptible to the effects of this substance.

B. First Aid:

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. At 20° C (room temperature), the substance has such a low vapor pressure that inhalation of the vapor is unlikely.

Ingestion: If patient is conscious, give several glasses of water to swallow, then induce vomiting. Call a physician immediately.

Skin Exposure: In case of contact, immediately wash affected area with soap and water. If irritation occurs, call a physician.

Eye Exposure: In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes. If irritation occurs, call a physician.

C. Toxicity Data: No information

SECTION 7 - Occupational Control Measures

Airborne Exposure Limits: Not Applicable

Ventilation: Not Applicable

Personal Respirators: Not Required

Skin Protection: Standard biomedical safety requirements are recommended and should include lab coats and gloves to prevent skin contact.

Eye Protection: Standard biomedical safety requirements are recommended and should include the use of chemical safety goggles. Side shields or full face shields are also recommended where splashing is possible. Maintain eye wash fountain and quick drench facilities in work area. Do not eat in work area.

SECTION 8 - Storage Information

Store **DOCUMENT**® Enzyme Linearity Test Set Solutions in a freezer at -10° to -20 ° C.

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