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Material Safety Data Sheet

1 PRODUCT IDENTIFICATION AND USE

MANUFACTURER: Genzyme Diagnostics P.E.I. Inc.
70 Watts Avenue
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PRODUCT NAME: Bilirubin (Total)-SL-X Assay
CATALOGUE NUMBER: 284-10, 284-30, 284-30-91R1, 284-30-91R2, 284-50A*, 284-50B**
PRODUCT USE: For the IN VITRO quantitative determination of Bilirubin (total) in serum.
DATE OF MSDS PREPARATION: October 3, 2008
MSDS PREPARED BY: John Gabriel
EMERGENCY TELEPHONE NO.: 1- (902) 566-1396
* Indicates R1 only (Accelerator Reagent)
** Indicates R2 only (Diazo Reagent)

2 COMPOSITION, INGREDIENT INFORMATION

<u>COMPONENT</u>	<u>CAS REGISTRY NUMBER</u>	<u>ACGIH TLV</u>
TBILI-SL-X Accelerator Reagent (R1):		
Trade Secret 1 % w/w	not available	not available
Hydrogen Chloride 0.7 % w/w	7647-01-1	C 2 ppm (STEL)
TBILI-SL-X Diazo Reagent (R2):		
Hydrogen Chloride 0.5 % w/w	7647-01-1	C 2 ppm (STEL)

3 HAZARDOUS IDENTIFICATION

EMERGENCY OVERVIEW:

TIBILI-SL-X Accelerator and Diazo Reagents are corrosive.

POTENTIAL HEALTH EFFECTS:

ROUTE OF ENTRY/EXPOSURE: EYE CONTACT: [X] SKIN CONTACT: [X] INHALATION: [X] INGESTION: [X]
SKIN ABSORPTION: [X]

EFFECTS OF ACUTE EXPOSURE TO PRODUCTS:

EYES: Reagents may cause burns.
SKIN: Reagents may cause burns. May cause sensitization in certain individuals.
INHALATION: Reagents may cause coughing and burns to mucous membranes and upper respiratory tract.
INGESTION: Reagents may cause digestive tract burns with abdominal pains.

EFFECTS OF CHRONIC EXPOSURE TO PRODUCT:

Exposure to hydrogen chloride has shown to cause embryo and fetus abnormalities in rats.

The trade secret is suspected of causing fetal abnormalities and reproductive problems in mice.

4 FIRST AID MEASURES

EYES: Flush eyes with water for at least 15 minutes and obtain medical attention.
SKIN: In case of contact, immediately flush area with plenty of water. If irritation continues seek medical attention.
INHALATION: If inhaled, remove victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen and obtain medical attention.
INGESTION: If ingested, drink plenty of fluids and obtain medical attention.

5 FIRE AND EXPLOSION HAZARDS

FLAMMABLE: No
FLASH POINT: not available
FLAMMABLE LIMITS (% in Air): Lower: not available. Upper: not available
EXTINGUISHING MEDIA: As appropriate for fires in surrounding materials.
FIREFIGHTING: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
AUTOIGNITION TEMPERATURE: not available
HAZARDOUS COMBUSTION PRODUCTS: not available
EXPLOSION DATA: Sensitivity to mechanical impact: not available. Sensitivity to static discharge: not available

6 ACCIDENTAL RELEASE MEASURES

PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL: Ventilate the area. Wear appropriate personal protective equipment as specified in Section 8. Contain and recover liquid when possible. Collect liquid in an appropriate container or absorb with an inert material and place in waste container. Wash surrounding area. Dispose of spilled and contaminated material in accordance with federal, provincial, state, and local regulations.

7 HANDLING AND STORAGE

HANDLING PROCEDURES AND EQUIPMENT: Avoid contact. Do not get in eyes, on skin, or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse.

STORAGE REQUIREMENTS: 2-8 °C

INCOMPATIBILITIES: not available

HAZARDOUS DECOMPOSITION PRODUCTS: not available

8 EXPOSURE CONTROLS, PERSONAL PROTECTION

ENGINEERING CONTROLS: Local exhaust not required under normal circumstances.
PERSONAL PROTECTIVE CLOTHING (PPE): Safety glasses with side-shields, lab coat, rubber nitrile or other impermeable gloves.
RESPIRATORY PROTECTION: none required.
EXPOSURE LIMITS: not available

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: The Accelerator reagent is a clear and colorless solution. The Diazo reagent is a clear, slight peach-colored solution.
ODOUR: Odourless
ODOUR THRESHOLD: not available
MELTING POINT: not available
BOILING POINT: not available
SPECIFIC GRAVITY: not available
VAPOUR PRESSURE: not available
VAPOUR DENSITY: not available
WATER SOLUBILITY: soluble
EVAPORATION RATE: not available
pH at 25 °C: Accelerator reagent=0.80 +/- 0.05 Diazo reagent 0.90 +/- 0.20
COEFFICIENT OF OIL/WATER DISTRIBUTION: not available

10 STABILITY AND REACTIVITY

STABILITY: Stable
POSSIBLE HAZARDOUS REACTIONS/CONDITIONS: not available
CONDITIONS TO AVOID: not available
MATERIALS TO AVOID: not available
HAZARDOUS DECOMPOSITION PRODUCTS: not available.

11 TOXICOLOGICAL INFORMATION

Hydrogen chloride
LD50: 900 mg/kg, oral rabbit
LC50: 3124 ppm/1H, inhalation rat

Trade secret
LD50: 350-450 mg/kg, oral rat

SENSITIZATION TO PRODUCT: Reagents may cause sensitization
NAME OF TOXICOLOGICALLY SYNERGISTIC PRODUCTS: not available
IRRITANCY OF PRODUCT: not available

12 ECOLOGICAL INFORMATION

not available

13 DISPOSAL CONSIDERATIONS

RECOMMENDATION FOR DISPOSAL OF UNUSED PRODUCT: Observe all federal, provincial, state and local regulations.

RECOMMENDATION FOR DISPOSAL OF PACKAGING: Observe all federal, provincial, state and local regulations.

14 TRANSPORT INFORMATION

SPECIAL SHIPPING INFORMATION:

UN1789, Hydrochloric acid solution, Class 8, PGII

15 REGULATORY INFORMATION

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulation (CPR) and the MSDS contains all the information required by the CPR.

RISK PHRASES: R20/21/22 Harmful by inhalation, in contact with skin and if swallowed
R34 Causes burns

SAFETY PHRASES: S26 In case of contact with eyes, rinse immediately with plenty of water
S35 This material and its container must be disposed of in a safe way
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label whenever possible)

Canada: WHMIS Classification-Corrosive Class E

US OSHA: Hazardous substance under 29 CFR Section 1910, Subpart Z

16 OTHER INFORMATION

The information provided on this Material Safety Data Sheet is provided in the interest of promoting safe handling of the material. While this information is believed to be correct, Genzyme Diagnostics P.E.I. Inc. makes no warranty in respect to any of the information disclosed. Observe all federal, provincial, state and local laws concerning health and the environment.

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