



Material Safety Data Sheet

I PRODUCT IDENTIFICATION AND USE

MANUFACTURER: Diagnostic Chemicals Limited
16 McCarville Street
West Royalty Industrial Park
Charlottetown, P.E.I.
Canada C1E-2A6
902-566-1396

PRODUCT NAME: **GGT**
CATALOGUE NUMBER: **334-10, 334-30, 334-50A, 334-50B**
PRODUCT USE: For the quantitative determination of gamma-glutamyl-transferase in human serum
DATE OF MSDS PREPARATION: June 27, 2006
MSDS PREPARED BY: John Gabriel
EMERGENCY TELEPHONE NO.: Not applicable.

II COMPOSITION, INGREDIENT INFORMATION

COMPONENT CAS REGISTRY NUMBER

To the best of our knowledge, neither R1 or R2 are Controlled or Hazardous Products.

III HAZARDOUS IDENTIFICATION

EMERGENCY OVERVIEW

PRECAUTIONARY STATEMENTS: Toxicological properties of reagent mixtures have not been determined. Any health recommendations are based on available data of raw materials and physical information known of the mixture. Follow good laboratory practices when handling. Avoid eye and skin contact, inhalation and ingestion.

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: May cause irritation.
SKIN: May cause irritation.
INHALATION: May cause irritation to mucous membranes and upper respiratory tract.
INGESTION: May be harmful if ingested.

EFFECTS OF CHRONIC EXPOSURE TO PRODUCT

EVIDENCE OF CARCINOGENICITY, TERATOGENICITY, REPRODUCTIVE TOXICITY, MUTAGENICITY: No data available.

IV 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 persists, obtain 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.

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V 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 fire in surrounding materials. Water spray, carbon dioxide, dry chemical, foam.
AUTOIGNITION TEMPERATURE: not available
HAZARDOUS COMBUSTION PRODUCTS: not available
EXPLOSION DATA: Sensitivity to mechanical impact: not available Sensitivity to static discharge: not available

VI ACCIDENTAL RELEASE MEASURES

PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL: Ventilate area. Wear appropriate personal protective equipment. Absorb material with sponge or towels. Wash area with detergent and flush area with water. Absorb wash water. Dispose of all material in accordance with federal, provincial, state, and local regulations.

VII 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

VIII EXPOSURE CONTROLS, PERSONAL PROTECTION

ENGINEERING CONTROLS: Local and/or general exhaust is recommended
PERSONAL PROTECTIVE CLOTHING : Lab coat, safety glasses with side shields or goggles, impermeable gloves.
RESPIRATORY PROTECTION: When working conditions warrant, wear respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (Europe)
EXPOSURE LIMITS: not available

IX PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid
APPEARANCE: Colourless
ODOUR: Odourless
ODOUR THRESHOLD: not available
MELTING POINT: not applicable
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: R1=8.2, R2=6.0
COEFFICIENT OF OIL/WATER DISTRIBUTION: not available

X STABILITY AND REACTIVITY

POSSIBLE HAZARDOUS REACTIONS/CONDITIONS: none known
CONDITIONS TO AVOID: none known
MATERIALS TO AVOID: none known
HAZARDOUS DECOMPOSITION PRODUCTS: none known

XI TOXICOLOGICAL INFORMATION

LD₅₀: not available
SENSITIZATION TO PRODUCT: does not contain substances known to be sensitizers
NAME OF TOXICOLOGICALLY SYNERGISTIC PRODUCTS: not available
IRRITANCY OF PRODUCT: may cause irritation on contact or inhaled
EVIDENCE OF CARCINOGENICITY, TERATOGENICITY, REPRODUCTIVE TOXICITY, MUTAGENICITY: no data available

XII ECOLOGICAL INFORMATION

Not harmful to aquatic and marine organisms.

CHEMICAL FATE INFORMATION: not available

XIII 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.

XIV TRANSPORT INFORMATION

SPECIAL SHIPPING INFORMATION: Not regulated by US DOT, Transport Canada or IATA.

XV REGULATORY INFORMATION

This product does not contain ingredients listed as dangerous substances in Annex I of the EEC Directive 67/548.
Labeling: No European/International symbol required.

RISK PHRASES

R22 Harmful if swallowed.

SAFETY PHRASES

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

XVI 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 we make no warranty in respect to any of the information disclosed. Observe all federal, provincial, state and local laws concerning health, safety and the environment.

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