Gamma GT – Soluble Substrate

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Gamma GT - Soluble Substrate

Catalog Numbers: TR19103, TR19104, TR19110, TR19115, BU1911-BP, UV1911xxxx-BP, VC1911xxxx,

VT1911xxxx

Use: This reagent is intended for in vitro quantitative determination of gamma-glutamyltransferase (GGT) [gamma-

Glutamyltransferase, EC2.3.2.2], in human serum or plasma.

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Contact Point

Australia U.S.A Quality Assurance Manager: Chemtel

Tel: +61 3 9790 4100 24 Hour Emergency Assistance

Mon - Fri 9:00am to 5:00pm 1-800-255-3924

2. HAZARDS IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO EU CRITERIA

Hazard Classification: HAZARDOUS SUBSTANCE, NON DANGEROUS GOODS.

Hazard Category: Harmful, Irritant

RISK PHRASES

R22 Harmful if swallowed.

R36/38 Irritating to eyes and skin.

SAFETY PHRASES

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

Poison Schedule: None allocated.

3. COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE NAME **Proportion CAS Number** TRIS(HYDROXYMETHYL)AMINOMETHANE 30 to 60 % 77-86-1 26628-22-8 **SODIUM AZIDE** 0.1 to < 0.3 %FILLERS, ADDITIVES NON-HAZARDOUS 30 to 60 % Mixture

All other ingredients determined not to be hazardous according to the EU criteria.

4. FIRST AID MEASURES

Swallowed:

If swallowed, **DO NOT** induce vomiting. Give 1 to 2 glasses of water to drink. If irritation persists transport to hospital or doctor.

If dust enters the eyes, immediately, flush with plenty of water or normal saline for 15 minutes, occasionally lifting eye lids, until no evidence of chemical remains. If irritation persists, immediately transport to hospital or doctor.

If dust is falls onto the skin, remove any contaminated clothing and wash skin thoroughly with soap and water. If irritation persists transport to hospital or doctor.

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4. FIRST AID MEASURES (continued)

Inhaled:

Move victim to fresh air. Apply resuscitation if victim is not breathing - If trained personnel available administer oxygen if breathing is difficult.

First Aid Facilities:

Eye wash fountain, safety shower and normal wash room facilities.

Advice to Doctor:

Treat symptomatically.

In case of poisoning, contact Poisons Information Centre

In Australia call Tel: 131126 In New Zealand Tel: 034747000

5. FIRE-FIGHTING MEASURES

Fire/Explosion Hazard

If safe to do so, move undamaged containers from fire area.

Hazardous Decomposition Products: Decomposes on heating emitting oxides of carbon, oxides of nitrogen and phosphorus entities.

Fire Fighting Procedures: Fire fighters to wear Self-contained breathing apparatus (SCBA) in confined spaces, in oxygen deficient atmospheres or if exposed to products of decomposition. Full protective clothing is also recommended. **Extinguishing Media:** Use extinguishing media suitable for surrounding fire situation.

Flammability

This material is not a combustible or flammable solid.

6. ACCIDENTAL RELEASE MEASURES

Avoid generating dusts. Wear suitable protective equipment. Ventilate area. If possible wet area down to prevent high dust levels. If available, use dustless methods, such as a HEPA vacuum and filter. Otherwise, use a non-sparking shovel and place into a suitably labeled container for later disposal. **Do not dry sweep**.

7. HANDLING AND STORAGE

Store in a cool place and out of direct sunlight. Store away from strong acids. Keep containers closed, when not using the product. Store at 2-8°C and the reagent will be stable until the expiry date stated on the bottle and kit box labels. Store in original packages as approved by manufacturer.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards

No exposure standards are available for this product, however, the following exposure standards have been assigned by the National Occupational Health & Safety Commission (NOHSC) to the following component of the product:

SODIUM AZIDE

(Worksafe Australia)
[TWA]0.11 ppm 0.3 mg/m³
[STEL]Peak limitation

References: H

Engineering Controls

Maintain adequate ventilation at all times. In most circumstances natural ventilation systems are adequate.

Personal Protection Equipment

GLOVES: Nitrile or neoprene.

EYES: Chemical glasses or goggles.

RESPIRATORY PROTECTION: Avoid breathing of dusts. The use of a respirator is not normally required, however, if high dust levels are present, then the use of a suitable dust mask or half-face respirator fitted with a P1 filter is recommended. All respirators must comply with AS/NZS 1715 and AS/NZS 1716.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White to off white powder with no odour.

Boiling Point:

Freezing Point:

Vapour Pressure:

Specific Gravity:

Flash Point:

Flammability Limits:

Solubility in Water:

Not available.

Not available.

Not applicable.

Not applicable.

Completely miscible.

Other Properties

pH: 8.2 ± 0.1 @ 19 - 22°C (at use concentrations)

10. STABILITY AND REACTIVITY

STABILITY:

Stable under normal conditions of use.

HAZARDOUS DECOMPOSITION PRODUCTS:

Decomposes on heating emitting oxides of carbon, oxides of nitrogen and phosphorus entities.

HAZARDOUS POLYMERIZATION:

Will not occur.

INCOMPATIBILITIES:

Strong mineral acids (sulfuric, nitric and hydrochloric).

CONDITIONS TO AVOID:

Incompatibles.

11. TOXICOLOGICAL INFORMATION

There is no toxicological information available for this product, however, for the ingredient:

Sodium azide:

Oral LD50(rat): 27 mg/kg Dermal LD50(rabbit): 20 mg/kg Oral LDLo(human): 143 mg/kg

Systemic effects: CNS disorders, cardiovascular failure, tachycardia, drop in blood pressure, coughing, dyspnoea, spasms, headache, dizziness, nauses, vomiting, collapse, unconsciousness.

ACUTE HEALTH EFFECTS

Swallowed:

Harmful if swallowed. Over exposure to sodium azide will include headache, nausea, blurred vision, dizziness, vomiting and low blood pressure. May cause irritation to mouth, throat and stomach. May cause irritation to mouth, throat and stomach.

Eye:

Will cause irritation to the eyes, with effects including: tearing, pain, stinging and blurred vision.

Skin

Will cause irritation to the skin, with effects including; Redness, itchiness, and drying/defatting.

Inhalad

Dusts from the product may cause irritation to the nose, throat and respiratory system.

Chronic

Prolonged or repeated skin contact may lead to skin rashes and potential dermatitis. Prolonged eye contact with the dust may cause severe and possible permanent injury. Prolonged or repeated exposure may lead to irreversible damage to health.

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12. ECOLOGICAL INFORMATION

Environmental Degradation: Dissipation of azides in soil is not by microbial action but is strictly a chemical process, which is accelerated by increased acidity and elevated temperatures. This reaction appears to occur rapidly in soils by oxidation or by reaction of hydrazoic acid with soil organic acids to form azides of these acids which then decompose by a Curtius Rearrangement. Sodium azide appears to be stable in water in the absence of light, however, it appears to be susceptible to photo-decomposition by UV radiation. Photolysis of sodium azide may result in metal nitrides initially, with the eventual formation of the free metal and nitrogen gas.

13. DISPOSAL CONSIDERATIONS

Refer to appropriate authority in your State. Normally suitable for disposal by approved waste disposal agent.

14. TRANSPORT INFORMATION

UN Number: None allocated

Proper Shipping Name: NONE ALLOCATED Dangerous Goods Class: None allocated

Subsidiary risk: None allocated **Packing Group:** None allocated **Hazchem Code:** None allocated

Road and Rail Transport:

Not classified as a Dangerous Good according to the United Nations Recommendations for the Transport of Dangerous Goods and Globally Harmonized System for the classification and labelling of Chemicals.

Air Transport:

Not classified as a Dangerous Good according to the International Civil Aviation Organization (ICAO) and International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

Marine Transport:

Not classified as a Dangerous Good according to the International Maritime Organization Rules (Maritime Dangerous Goods Code - IMDG Code) for transport by sea.

15. REGULATORY INFORMATION

Poison Schedule: None allocated.

Inventory Status:

Australia (AICS) Y
United States (TSCA) Y
Canada (DSL) Y
Europe (EINECS/ELINCS) Y
Japan (MITI) Y
South Korea (KECL) Y

Y =all ingredients are on the inventory.

16. OTHER INFORMATION

Issue date: July, 2004

Reasons for Update:

- 1. Alignment with the 2nd Edition of National Code of Practice for the Preparation of Material Safety Data Sheets [NOHSC:2001(2003).
- 2. Changes and /or addition made to all sections.

Key Legend Information:

NOHSC - National Occupational Health & Safety Commission [Aust]

TWA - Time Weighted Average [Int]

STEL - Short Term Exposure Limit [Int]

AICS - Australian Inventory of Chemical Substances

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16. OTHER INFORMATION (continued)

EPA - Environmental Protection Agency [Int]

NIOSH - National Institute for Occupational Safety and Health [US]

AS/NZS 1715 - Selection, use and maintenance of respiratory protectice devices. [Aust]

AS/NZS 1716 - Respiratory protective devices. [Aust]

IATA - International Aviation Transport Authority [Int]

ICAO - International Civil Aviation Organization

IMO - International Maritime Organisation. [Int]

IMDG - International Maritime Dangerous Goods

United Nations Recommendations for the Transport of Dangerous Goods and Globally Harmonized System for the classification and labelling of Chemicals. [Int]

EU - European Union

[Aust/NZ] = Australian/New Zealand

[Int] = International

[US] = United States of America

Principal References:

Information supplied by manufacturer, reference sources including the public domain.

Disclaimer

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

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END OF MSDS

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