

1. Information of the substance/mixture and of the company/undertaking	
1.1 Commercial product name	γ -GT (GGT) L- γ -Glutamyltransferase
Cat. No.:	GT8320
1.2 Company:	RANDOX Laboratories Ltd., 55 Diamond Road, Crumlin, Co. Antrim, United Kingdom, BT29 4QY Tel: +44 (0) 28 9442 2413; Fax: +44 (0) 28 9445 2912 Email: msds@randox.com Website: www.randox.com
1.3 In Emergencies:	Tel: +44 (0) 28 9442 2413

2. Hazards identification	
	Contains no hazardous substances in reportable quantities
Classification:	No hazardous chemicals as classified by CHIP 3

3. Composition / Information on Ingredients	
Warnings:	For <i>in vitro</i> diagnostic use only. Do not pipette by mouth. Handle laboratory reagents in accordance with Good Laboratory Practice.
Risk phrases:	None
Safety phrases:	None

4. First aid measures	
Emergency First Aid:	Call an internal First Aider where available or else contact a physician immediately. Direction for First Aider or Physician:
Inhalation:	If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.
Ingestion:	If swallowed wash out mouth with water provided person is conscious, call a physician.
Skin Contact:	In case of skin contact immediately wash skin with soap and copious quantities of water.
Eye Contact:	Flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating eyelids with fingers. Call a physician.

5. Fire-fighting measures	
Flash point:	Not determined
Flammable limits:	Not determined
Extinguishing media:	No restriction
Special Fire Fighting Procedures:	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Unusual Fire and Explosion Hazards:	May emit toxic fumes under fire conditions
Thermal decomposition:	Not determined

6. Accidental release measures	
After spillage:	<p>Use appropriate spill absorbent kit as instructed by the manufacturer. Alternatively, mop up with an absorbent material and hold for waste disposal.</p> <p>Appropriate Personal Protective Equipment should be worn, e.g. laboratory coat, gloves, safety glasses and mask.</p> <p>Ventilate area and wash spill site after material pick up is complete.</p>
Absorbent material:	No restriction

7. Handling and storage	
7.1 Handling:	Wash thoroughly after handling. Do not use if skin is cut or scratched. Avoid contact with eyes, skin and clothing.
7.2 Storage	Store at temperatures and conditions as indicated on the product label
Do not store together:	N/A

8. Exposure controls/personal protection	
MEL/OES	Not determined
Respiratory protection:	None
Eye protection:	Protective glasses
Hand protection:	Standard laboratory rubber or latex gloves.
Skin protection:	A laboratory coat or apron is recommended

9. Physical and chemical properties	
Physical state:	Liquid
Colour:	Light yellow (Substrate) Colourless (Buffer)
Odour:	Mild (Substrate) Odourless (Buffer)
pH value:	Not determined
Boiling point	Not determined
Melting point:	Not determined
Oxidising properties:	Not determined
Ignition temperature	Not determined
Explosion limits:	Product does not present an explosion hazard
Density:	Not determined
Solubility in water:	Soluble

10. Stability and reactivity	
Stability:	The product is stable in accordance with the recommended storage conditions.
Conditions to avoid:	Not determined
Substances to avoid:	Strong oxidising agents, also acids.
Hazardous decomposition products:	Not determined

11. Toxicological information:	
LD50 oral	Not determined
LD50 intraperitoneal	Not determined
LD50 skin	Not determined
LC50 inhalation	Not determined
Toxicologic information:	Hydrolysis of L-gamma-Glutamyl-3-carboxy-4-nitroanilide produced the end-product p-Nitroaniline, which may be absorbed through the skin (pH=6)

12. Ecological information	
Water hazard class:	Data not yet available

13. Disposal considerations	<p>Each disposal facility must determine proper disposal methods of the substance or preparation and any contaminated packaging to comply with Local and National Environmental Regulations</p> <p>Refer to Section 6.</p>
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14. Transport Information			
GGVE/GGVS:	Data not yet available	RID/ADR	Data not yet available
ICAO/IATA-DGR:	Data not yet available	UN-Nr.:	Data not yet available
IMDG-CODE:	Data not yet available	MFAG	Data not yet available
		EMS:	Data not yet available

15. Regulatory information	
	This product contains no hazardous chemicals in reportable quantities according to CHIP 3.
Hazard symbol:	None
Risk phrases:	None
Safety phrases:	None
Precautions:	See Section 3

16. Other information	
	The information herein is believed to be correct as of the date hereof but is provided without warranty of any kind. The recipient of our products is responsible for observing any National laws and guidelines applicable.