



# Teco Diagnostics

Clinical Reagent Specialists

Form	QL801-157
Revision	A
Prepared by	Brian Anderson
Approved by	Owen Bry
Issue date	1/14/2011

[MSDS] **GGT Liquid, Kinetic**  
 1268 N. Lakeview Ave. Anaheim, CA 92807 Phone: (714) 463-1111 Fax: (714) 463-1169 www.tecodiag.com

### Section 1 – Product and Company Information

<b>Product Name</b> <b>Catalog Number</b> <b>Product Type</b>	<b>GGT Liquid, Kinetic</b> G572-150 Clinical Chemistry Reagent	<b>Emergency Telephone No.</b> CHEMTREC (800) 424-9300 International CHEMTREC (703) 527-3887
<b>Company Name</b> <b>Street Address</b> <b>City, State, Zip Code, Country</b>	Teco Diagnostics 1268 N. Lakeview Avenue Anaheim, CA 92807 USA	<b>Company Telephone No.</b> (800) 222-9880 or (714) 693-7788 Monday - Friday 8:00-4:30 PST Fax No. (714) 693-3838

### Section 2 – Composition/Information on Ingredients

Chemical Names	Concentration or %	CAS#
Tris(hydroxymethyl)aminomethane	100 mmol/L	77-86-1
Glycylglycine	100 mmol/L	556-50-3
L-y-glutamyl-3-carboxy-4-nitroanilide	4.0 mmol/L	63699-78-5

Other components either non-hazardous or at concentrations below that requiring hazardous listing.

### Section 3 – Hazards Identification

#### Emergency Overview:

Note: The following information applies to the component materials at higher concentrations than present in the reagent. Although lower concentrations are present in the reagent, appropriate safety precautions should still be taken.

**Routes of exposure/entry:** Skin contact, skin absorption, eye contact, inhalation and ingestion.

Skin contact: May cause skin irritation.

Skin absorption: May be harmful if absorbed through the skin.

Eye contact: May cause eye irritation.

Inhalation: May cause irritation to mucous membranes and upper respiratory tract. May be harmful if inhaled.

Ingestion: May be harmful if swallowed.

	HMIS Rating			NFPA Rating		
	Health	Flammability	Reactivity	Health	Flammability	Reactivity
Tris(hydroxymethyl)aminomethane	2	0	0	2	0	0
L-y-glutamyl-3-carboxy-4-nitroanilide:	N/A					
Glycylglycine:	Not listed as hazardous by NIOSH/RTECS.					

For additional information on toxicity, please refer to section 11.

### Section 4 – First Aid Measures

First Aid for Ingestion:	If ingested, wash out mouth with plenty of water provided person is conscious. Call a physician.
First Aid for Inhalation:	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician if necessary.
First Aid for Skin:	Wash contaminated area immediately with plenty of water.
First Aid for Eyes:	Flush eyes with plenty of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician if necessary.

### Section 5- Fire and Explosive Hazard Data

<b>Autoignition Temp</b> N/A	<b>Flammable Limits</b> N/A
<b>Extinguishing Media</b> Use media appropriate for surrounding materials and site conditions.	
<b>Firefighting Measures</b> Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Specific Hazard(s): Emits toxic fumes under fire conditions.	

### Section 6 – Accidental Release Measures

<b>Spill Response</b> Ventilate the area. Absorb on inert material. Place material and disposables into a suitable container, seal, label and hold for disposal. Wash spill site after material pickup is complete.	
<b>Procedures of Personal Precaution</b> Refer to Section 8.	<b>Waste Disposal Method</b> Refer to section 13.



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**Section 7 – Handling and Storage**

**Handling**

Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Avoid inhalation or ingestion. Do not pipette by mouth. Wash thoroughly after handling. Wash contaminated clothing before reuse. Refer to Section 8.

**Storage**

Store according to package directions. Keep tightly closed. Store at 2-8°C. Protect from light.

**Section 8 – Exposure Controls / PPE**

Respiratory Protection: None required where adequately ventilated.

Protective Gloves: Latex or rubber gloves

Protective Clothing: Lab coat

Eye Protection: Safety glasses or goggles

Ventilation: General room ventilation is satisfactory.

Other Protective Equipment: Safety shower and eye wash should be available. Use a safety pipette device.

**Section 9 - Physical Data**

<b>Boiling Point</b> N/A	<b>Melting Point</b> N/A	<b>Specific Gravity</b> Working reagent < 0.8
<b>Evaporation Rate</b> N/A	<b>Solubility in Water</b> Soluble	<b>Appearance</b> R1: Colorless liquid R2: Light yellow liquid

**Section 10 – Stability and Reactivity**

<b>Stability</b> Stable	<b>Hazardous Decomposition Products</b> Carbon monoxide, carbon dioxide, nitrogen oxides
<b>Conditions or Materials to Avoid</b> Strong oxidizing agents	<b>Hazardous Polymerization</b> None have been reported

**Section 11 – Toxicological information**

**Signs and Symptoms of Exposure**

To the best of our knowledge, the chemical, physical and toxicological properties of have not been thoroughly investigated.

**Section 12 – Ecological Information**

No Information available.

**Section 13 – Disposal Considerations**

Contact a licensed professional waste disposal service to dispose of this material. Observe all federal, state and local environmental regulations.

**Section 14 – Transport Information**

DOT: Proper shipping name: None

Non-hazardous for Transport: This substance is considered to be non-hazardous for transport.

IATA: Non-hazardous for Air Transport.

**Section 15 – Regulatory Information**

OSHA Status: Regulated under Subpart Z

Classification: The preparation is classified and labeled according to EEC Directive n.88/379.

Symbol: N/A

Risk Statements: N/A

Safety Statements: N/A

**Section 16 – Other Information**

This Product is labeled in accordance with CFR21 (Food and Drugs), Section 809.10.

The information contained herein has been compiled from data presented in various technical sources believed to be accurate. We make no warranties, express or implied, and assume no liability in connection with the use of this information. It is the user's responsibility to determine the suitability of this information and to assure the adoption of necessary safety precautions.

N/A - Not Applicable or Not Available