[SDS] **Triglyceride-GPO**

1268 N. Lakeview Ave. Anaheim, CA 92807 Phone: (714) 463-1111 Fax: (714) 463-1169 www.tecodiagnostics.com

Section 1 – Product and Company Information

Product Name **Catalog Number** **Product Type**	**Triglyceride-GPO** **T531-150, T531-400** Clinical Chemistry Reagent	**Emergency Telephone No.** CHEMTREC (800) 424-9300 International CHEMTREC (703) 527-3887
Company Name **Street Address** **City, State, Zip Code, Country**	Teco Diagnostics 1268 N. Lakeview Avenue Anaheim, CA 92807 USA	**Company Telephone No.** (800) 222-9880 or (714) 463-1111 Monday - Friday 8:00-5:00 PT Fax No. (714) 463-1169
Recommended Use: For *in vitro* diagnostic use only. For professional use only.		
Restrictions on Use: Not for *in vivo* use.		

Section 2 – Hazards Identification

Classification

Component	Classification
Triglyceride Reagent: (Hazardous components: 4-Aminoantipyrine, Lipase Lipoprotein, Peroxidase, Sodium Azide)	Product Description: Mixture This material is classified as hazardous according to the OSHA Hazard Communication Standard (29 CFR 1910.1200) and UN GHS. Acute toxicity, oral (Category 4) H302 Skin irritation (Category 2) H315 Skin sensitization (Category 1) H317 Eye irritation (Category 2) H319 Respiratory sensitization (Category 1) H334 Respiratory irritation (Category 3) H335 Acute aquatic toxicity (Category 3) H402 Chronic aquatic toxicity (Category 3) H412
Triglyceride Standard: (Hazardous component: Sodium Azide)	Product Description: Mixture This material is classified as hazardous according to the OSHA Hazard Communication Standard (29 CFR 1910.1200) and UN GHS. Acute aquatic toxicity (Category 3) H402 Chronic aquatic toxicity (Category 3) H412

Section 2 – Hazards Identification (continued)

Hazardous Components

Component	**GHS Label elements, including precautionary statements**	
4-Aminoantipyrine (Component of Triglyceride reagent)	Pictogram Hazard Symbol	
	Signal Word	Warning
	Hazard Statements	H302 Harmful if swallowed H315 Causes skin irritation H319 Causes serious eye irritation. H335 May cause respiratory irritation.
	Precautionary Statements	P261 Avoid breathing dust/fume/gas/mist/vapors/spray P264 Wash skin thoroughly after handling P270 Do not eat, drink or smoke when using this product P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P304 + P340 IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312 Call a POISON CENTER or doctor if you feel unwell. P330 Rinse mouth P332 + P313 If skin irritation occurs: Get medical advice/attention. P337 + P313 If eye irritation persists: Get medical advice/attention. P362 Take off contaminated clothing and wash it before reuse.
Hazards not Otherwise classified (HNOC): None		

Component	**GHS Label elements, including precautionary statements**	
Lipase Lipoprotein (Component of Triglyceride reagent)	Pictogram Hazard Symbol	
	Signal Word	Danger
	Hazard Statements	H317 May cause allergic skin reaction. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
	Precautionary Statements	P261 Avoid breathing dust/fume/gas/mist/vapors/spray. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P285 In case of inadequate ventilation, wear respiratory protection. P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P304 + P341 IF INHALED: If breathing is difficult, remove person to fresh air and keep at rest in a position comfortable for breathing. P333 + P313 If skin irritation or rash occurs: Get medical advice/attention. P342 + P311 If experiencing respiratory symptoms call a POISON CENTER or doctor/physician. P363 Wash contaminated clothing before reuse.
Hazards not Otherwise classified (HNOC): None		

Section 2 – Hazards Identification (continued)

Hazardous Components

Component	**GHS Label elements, including precautionary statements**	
Peroxidase (Component of Triglyceride reagent)	Pictogram Hazard Symbol	
	Signal Word	Danger
	Hazard Statements	H317 May cause allergic skin reaction. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
	Precautionary Statements	P261 Avoid breathing dust/fume/gas/mist/vapors/spray. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P285 In case of inadequate ventilation, wear respiratory protection. P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P304 + P341 IF INHALED: If breathing is difficult, remove person to fresh air and keep at rest in a position comfortable for breathing. P333 + P313 If skin irritation or rash occurs: Get medical advice/attention. P342 + P311 If experiencing respiratory symptoms call a POISON CENTER or doctor/physician. P363 Wash contaminated clothing before reuse.
Hazards not Otherwise classified (HNOC): None		

Component	**GHS Label elements, including precautionary statements**	
Sodium Azide (≤0.1%) (Component of Triglyceride Reagent & Triglyceride Standard)	Pictogram Hazard Symbol	None
	Signal Word	None
	Hazard Statements	H402 Harmful to aquatic life. H412 Harmful to aquatic life with long lasting effects.
	Precautionary Statements	P273 Avoid release to the environment. P501 Dispose of contents/container to an approved waste disposal plant
Hazards not Otherwise classified (HNOC): Sodium azide may react with lead and copper plumbing to form highly explosive metal azides.		

Section 3 – Composition/Information on Ingredients

Component	**Type**	**Chemical Name**	**Concentration or %**	**CAS#**
Triglyceride Reagent	Mixture	ATP	3.3 mM	987-65-5
		Magnesium Sulfate	3.0 mM	7487-88-9
		4-Aminoantipyrine	0.7 mM	83-07-8
		3,5-Dichloro-2-hydroxybenzene Sulfonate (DHBS)	0.8 mM	54970-72-8
		Glycerol Phosphate Oxidase (GPO)	7000 U/L	9046-28-0
		Sodium Azide	0.01%	26628-22-8
		Lipase Lipoprotein	200,000 U/L	9004-02-8
		Glycerol Kinase (GK)	1000 U/L	9030-66-4
		Peroxidase	10,000 U/L	9003-99-0
Triglyceride Standard	Mixture	Glycerol	200 mg/dl	56-81-5
		Sodium Azide	0.1%	26628-22-8

Section 4 – First Aid Measures

General Advice	Immediately remove any clothing soiled by the product. In case of irregular breathing or respiratory arrest provide artificial respiration.
Ingestion	Never give anything by mouth to an unconscious person. If victim is conscious and alert, rinse mouth with water. Seek medical attention.
Inhalation	Move person into fresh air. If not breathing, give artificial respiration and seek medical attention.
Skin Contact	Wash off immediately with soap and plenty of water. Remove contaminated clothing. Wash clothing before reuse. Get medical attention if irritation occurs.
Eye Contact	Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Remove contact lenses if present. Get medical attention if irritation occurs.

Section 5- Fire and Explosive Hazard Data

Extinguishing Media
Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable media: No information available.

Specific Hazards
Hazardous combustion products: Carbon oxides, Sulfur oxides, Hydrogen chloride gas, Sodium oxides, Carbon monoxide.

Special Protective equipment and advice for firefighters
Wear self-contained breathing apparatus and appropriate protective clothing for firefighting

Section 6 – Accidental Release Measures

Personal precautions, protective equipment and emergency procedures
Wear proper personal protective equipment (PPE) as indicated in section 8.
Exercise appropriate precautions to avoid contact with skin or eyes and prevent inhalation.

Environmental precautions
Refer to section 12 for Ecological Information.

Methods and materials for containment and cleaning up
For liquid components, soak up on inert absorbent material. For dry components, sweep up without creating dust. Place materials into a suitable waste container. For disposal, refer to section 13. Do not contaminate water sources or sewer.

Section 7 – Handling and Storage

Handling	Wear appropriate personal protective equipment (PPE) as indicated in section 8. Avoid contact with eyes, skin, and clothing. Avoid inhalation or ingestion.
Storage	Store at 2 - 8°C according to the label instructions in the original containers. Keep containers tightly closed when not in use.

Section 8 – Exposure Controls / Personal Protection

Components with workplace control parameters:

Chemical Name	Value	Control Parameter	Basis
Sodium Azide CAS# 26628-22-8	C C C C C C	0.1 ppm 0.3 mg/m3 0.1 ppm 0.3 mg/m3 0.11 ppm 0.29 mg/m3	USA. NIOSH Recommended Exposure Limits USA. NIOSH Recommended Exposure Limits USA. OSHA - TABLE Z-1 Limits for Air Contaminants USA. OSHA - TABLE Z-1 Limits for Air Contaminants USA. ACGIH Threshold Limit Values (TLV) USA. ACGIH Threshold Limit Values (TLV)

Engineering Controls:
Handle in accordance with good industrial hygiene and safety practices. Avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling the product. Facilities storing or utilizing this material should be equipped with an eyewash fountain and showers. Use adequate ventilation to keep airborne concentrations low.

Personal Protective Equipment

Eye Protection	Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Skin Protection	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Body Protection	Wear protective clothing appropriate to the work environment.
Respiratory Protection	Respiratory protection is not required under normal conditions of use.
Other Protective Equipment	Ensure the eyewash station and/or safety shower is located near the work area

General Hygiene Measures
Handle in accordance with good industrial hygiene and safety practice. After handling, remove gloves using proper glove removal technique (without touching outer surface of glove), and dispose gloves according to applicable laws and good laboratory practices. Wash hands thoroughly. Also wash hands before eating, smoking, using the lavatory, and at end of the work shift.

Section 9 - Physical and Chemical Properties

Appearance	Triglyceride Reagent: Powder Triglyceride Standard: Liquid
Odor	No information available.
Odor Threshold	No information available.
pH	No information available.
Melting point/ Freezing point	No information available.
Initial Boiling point and boiling range	No information available.
Flash Point	No information available.
Evaporative Rate	No information available.
Flammability	No information available.
Upper/Lower flammability or explosion limits	No information available.
Vapor pressure	No information available.
Vapor Density	No information available.
Relative Density	No information available.
Solubility	Soluble
Partition coefficient: n-octanol/water	No information available.
Auto-ignition temperature	No information available.
Decomposition Temperature	No information available.
Viscosity	No information available.

Section 10 – Stability and Reactivity

Reactivity	No dangerous reaction known under conditions of normal use.
Chemical stability	Stable under recommended storage conditions as indicated in section 7.
Possibility of hazardous reactions	No information available.
Conditions to avoid	Avoid high temperature.
Incompatible materials	Sodium azide reacts with heavy metals to form highly explosive metal azides.
Hazardous decomposition products	No information available.

Section 11 – Toxicological information

Route of entry/Exposure	Skin contact, eye contact, inhalation, ingestion
Effects of Acute Exposure	
Skin contact	Harmful in contact with skin.
Eye Contact	May cause irritation
Ingestion	No data available
Inhalation	Harmful by inhalation
Effects of Chronic Exposure	No information available

Toxicity:

Component	Chemical	Acute Toxicity	Chronic Toxicity	Other Information
Triglyceride Reagent	4-Aminoantipyrine	LD50 Oral =1700 mg/kg (rat)	No information available.	RTECS: CD2480000
	Glycerol Phosphate Oxidase	Acute oral toxicity: Acute toxicity estimate: >5,000 mg/kg Acute dermal toxicity: Acute toxicity estimate: >5,000 mg/kg	No information available.	Not available
Triglyceride Reagent & Standard	Sodium Azide	LD50 Oral =10 mg/kg (rabbit) LC50 Inhalation = 37 mg/m^3 (rat) LD50 Dermal = 20 mg/kg (rabbit)	No information available.	RTECS: VY8050000
Triglyceride Standard	Glycerol	LD50 Oral =12600 mg/kg (rat) LD50 Dermal >10g/kg (rabbit) LC50 Inhalation >570 mg/m^3 (rat)	No information available.	RTECS: MA8050000

Carcinogenicity:

IARC	No component present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC.
NTP	No component present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP.
OSHA	No component present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
ACGIH	No component present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

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

Section 12- Ecological Information

Toxicity	Magnesium Sulfate: 2,820 mg/l: 96h Pimephales promelas (fathead minnow) LC50 Glycerol: 51 – 57 ml/L: 96 h Oncorhynchus mykiss LC50
Persistence and degradability	No information available
Bio-accumulative potential	No information available
Mobility in soil	No information available
Water Hazards	No information available
Other adverse effects	Sodium azide is harmful to aquatic live with long lasting effects.

Section 13- Disposal Considerations

Waste residues and methods of disposal This product has to be disposed in accordance with applicable regional, national and local laws and regulations. Surplus and non-recyclable components should be taken to a licensed waste disposal contractor for disposal.
Contaminated Packaging Waste packaging should be recycled; however, since empty containers may retain some product residues, they should be taken to an approved waste handling site or given to a licensed waste disposal contractor for recycling or disposal, if recycling is not possible.

Section 14 Transport Information

UN Number	Not regulated
UN Proper Shipping Name	Not regulated
Transport Hazard class	Not classified as hazardous. Not regulated.
Packaging Group	Not applicable
Environmental Hazards	No information available
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable
DOT	Not dangerous goods. Non-hazardous for transport
IMDG	Not dangerous goods. Non-hazardous for maritime transport
IATA	Not dangerous goods. Non-hazardous for air transport
Special Precautions	None

Section 15 – Regulatory Information
United States Regulations:

HCS Classification	Not determined		
SARA 302	Sodium azide		CAS#: 26628-22-8
SARA 313 Components	Sodium azide		CAS#: 26628-22-8
SARA 311/312 Hazards	4-Aminoantipyrine Sodium azide	Acute Health Hazard Acute Health Hazard, Chronic Health Hazard	CAS# 83-07-8 CAS# 26628-22-8
Clean Water Act 307	This product does not contain any toxic pollutants listed under the U.S. Clean Water Act section 307.		
Clean Water Act 311	This product does not contain any toxic pollutants listed under the U.S. Clean Water Act section 311.		
Clean Air Act 112	This product does not contain any chemicals listed under the U.S. Clean Air Act section 112(r) for Accidental Release Prevention.		
U.S. State- New Jersey Right to Know	Magnesium Sulfate Sodium azide 3,5-Dichloro-2-hydroxybenzene Sulfonate		CAS# 7487-88-9 CAS# 26628-22-8 CAS# 54970-72-8
U.S. State- Pennsylvania Right to Know	Magnesium Sulfate Sodium azide 3,5-Dichloro-2-hydroxybenzene Sulfonate		CAS# 7487-88-9 CAS# 26628-22-8 CAS# 54970-72-8
U.S. State- Massachusetts Right to Know	Sodium azide		CAS# 26628-22-8
U.S. State- California Prop. 65	This product does not contain any chemicals known to the State of California to cause cancer, birth defects or any other reproductive harm.		

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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
Date of SDS Preparation: 07/26/2016