

[SDS] **Glucose (Oxidase)**




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

### Section 1 – Identification

<b>Product Name</b>	<b>Glucose Oxidase</b>	<b>Emergency Telephone No.</b>
<b>Catalog Numbers</b>	G519-250, G519-1L	CHEMTREC (800) 424-9300
<b>Product Type</b>	Clinical Chemistry Reagent	International CHEMTREC (703) 527-3887
<b>Company Name</b>	Teco Diagnostics	<b>Company Telephone No.</b>
<b>Street Address</b>	1268 N. Lakeview Avenue	(800) 222-9880 or (714) 463-1111 Monday - Friday 8:00-5:00 PT
<b>City, State, Zip Code, Country</b>	Anaheim, CA 92807 USA	Fax No. (714) 463-1169
<b>Recommended Use:</b> For <i>in vitro</i> diagnostic use only. For professional use only.		
<b>Restrictions on Use:</b> Not for <i>in vivo</i> use.		

### Section 2 – Hazard(s) Identification

Component	Classification of the substance or mixture
Glucose Reagent	This material is classified as hazardous according to the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Glucose Standard	This material is not classified as hazardous according to the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Component	Label elements	
<b>Glucose Oxidase</b>	Pictogram Hazard Symbol	
	Signal Word	Danger
	Hazard Statement	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
	Precautionary Statements	Avoid breathing dust/fume/gas mist/vapors/spray. IF INHALED: if breathing is difficult, move victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: call a POISON CENTER or doctor/physician. In case of inadequate ventilation wear respiratory protection. Dispose of content/ container to licensed waste sire in accordance with local Waste Disposal Authority.
<b>Peroxidase (Horseradish)</b>	Pictogram Hazard Symbol	
	Signal Word	Danger
	Hazard Statement	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
	Precautionary Statements	Avoid breathing dust/fume/gas mist/vapors/spray. IF INHALED: if breathing is difficult, move victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: call a POISON CENTER or doctor/physician. In case of inadequate ventilation wear respiratory protection. Dispose of content/ container to licensed waste sire in accordance with local Waste Disposal Authority.
<b>4-Aminoantipyrine</b>	Pictogram Hazard Symbol	
	Signal Word	Warning
	Hazard Statement	Harmful if swallowed Causes skin irritation Causes serious eye irritation May cause respiratory irritation
	Precautionary Statement	Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Wear protective gloves/protective clothing/eye protection/face protection

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		<p>Avoid breathing dust/fume/gas/mist/vapors/spray          Use only outdoors or in a well-ventilated area  <b>IF INHALED:</b> Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.  <b>IF ON SKIN:</b> Wash with plenty of soap and water If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse  <b>IF IN EYES:</b> Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention  <b>IF SWALLOWED:</b> Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth          Store in a well-ventilated place. Keep container tightly closed Store locked up.          Dispose of contents/container to an approved waste disposal plant.</p>
<b>Hazards not otherwise classified (HNOC)</b>		None

**Section 3 – Composition/Information on Ingredients**

Component	Type	Chemical Name	Concentration or %	CAS#
Glucose Reagent	Mixture	Glucose Oxidase	15µl/ml	9001-37-0
		Peroxidase (Horseradish)	1.2µl/ml	9003-99-0
		4-Aminoantipyrine	0.38 mM	83-07-8
			(After reconstitution)	
Glucose Standard	Mixture	D-Glucose	100 mg/dl	50-99-7

**Section 4 – First Aid Measures**

<b>Ingestion</b>	Never give anything by mouth to an unconscious person. If victim is conscious and alert, rinse mouth with water. Seek medical attention.
<b>Inhalation</b>	Move person into fresh air. If not breathing, give artificial respiration and seek medical attention.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water. Remove contaminated clothing. Wash clothing before reuse. Get medical attention if irritation occurs.
<b>Eye Contact</b>	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-fighting Measures**

<b>Extinguishing Media</b>	Suitable: Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide. Unsuitable: No information available.
<b>Specific Hazards</b>	Hazardous combustion products: Carbon monoxide, Nitrogen oxides, Carbon dioxide
<b>Special protective equipment and precautions for fire-fighters</b>	Wear self-contained breathing apparatus and appropriate protective clothing for firefighting.

**Section 6 – Accidental Release Measures**

<b>Personal precautions, protective equipment and emergency procedures</b>	Wear proper personal protective equipment (PPE) as indicated in section 8. Exercise appropriate precautions to avoid contact with skin or eyes and prevent inhalation.
<b>Environmental precautions</b>	Refer to section 12 for Ecological Information.
<b>Methods and materials for containment and cleaning up</b>	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 the water sources or sewer.

**Section 7 – Handling and Storage**

<b>Handling</b>	Wear appropriate personal protective equipment (PPE) as indicated in section 8. Avoid contact with eyes, skin, and clothing. Avoid inhalation or ingestion.
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**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:** This product does not contain any substances with occupational exposure limit values.

#### Engineering Controls

No special ventilation requirements. Good general ventilation is sufficient. Handle in accordance with food industrial hygiene and safety practices.

#### Personal Protective Equipment

**Respiratory Protection** Follow OSHA respirator regulations found in 29 CFR 1910.134

**Hand Protection** Wear chemical-resistant, impervious gloves

**Eye Protection** Safety glasses with side shields recommended.

**Protective Clothing** Wear a lab coat.

**Other protective equipment** Ensure the eyewash station and/or safety shower/wash 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

<b>Appearance</b>	Glucose Reagent: Off-white powder Glucose Standard: Liquid
<b>Odor</b>	No information available
<b>Odor threshold</b>	No information available.
<b>pH</b>	No information available.
<b>Melting point / freezing point</b>	No information available.
<b>Initial boiling point and boiling range</b>	No information available.
<b>Flash point</b>	No information available.
<b>Evaporation rate</b>	No information available.
<b>Flammability</b>	Not flammable
<b>Upper/lower flammability or explosion limits</b>	No information available.
<b>Vapor pressure</b>	No information available.
<b>Vapor density</b>	No information available.
<b>Relative density</b>	No information available.
<b>Solubility</b>	Soluble
<b>Partition coefficient: n-octanol/water</b>	No information available.
<b>Auto-ignition Temperature</b>	No information available.
<b>Decomposition Temperature</b>	No information available.
<b>Viscosity</b>	No information available.

### Section 10 – Stability and Reactivity

<b>Reactivity</b>	No dangerous reaction known under conditions of normal use.
<b>Chemical stability</b>	Stable under recommended storage conditions as indicated in section 7.
<b>Possibility of hazardous reactions</b>	No information available.
<b>Conditions to avoid</b>	Avoid high temperature.
<b>Incompatible materials</b>	No information available.
<b>Hazardous decomposition products</b>	No information available.

### Section 11- Toxicological Information

<b>Route of Entry/Exposure</b>	Skin contact, eye contact, inhalation, ingestion
<b>Effects of acute exposure</b>	
<b>Skin contact</b>	May irritate skin
<b>Eye contact</b>	May cause temporary eye irritation
<b>Inhalation</b>	May cause allergy or asthma symptoms or breathing difficulties if inhaled
<b>Ingestion</b>	No information available.

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**Effects of chronic exposure** No information available

**Toxicity:**

Component	Chemical	Acute Toxicity	Chronic Toxicity	Other Information
Glucose Reagent	4-Aminoantipyrine	LD50 Oral- rat 1700 mg/kg	No information available	Not available

**Carcinogenicity**

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

<b>Ecotoxicity</b>	No information available
<b>Persistence and degradability</b>	No information available
<b>Bio-accumulative potential</b>	No information available
<b>Mobility in soil</b>	No information available
<b>Water hazard class</b>	No information available
<b>Other adverse effects</b>	No information available

**Section 13 – Disposal Considerations**

<b>Waste residues and methods of disposal</b>	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.
<b>Contaminated Packaging</b>	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**

<b>UN Number</b>	None. Not regulated.
<b>UN Proper shipping name</b>	None. Not regulated.
<b>Transport hazard class</b>	Not classified as hazardous. Not regulated.
<b>Packing group</b>	Not applicable
<b>Environmental hazard</b>	No information available
<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not applicable
<b>DOT (USA)</b>	Not dangerous goods. Non-hazardous for transport.
<b>IMDG</b>	Not dangerous goods. Non-hazardous for maritime transport.
<b>IATA</b>	Not dangerous goods. Non-hazardous for air transport.
<b>Special precautions</b>	None

**Section 15 – Regulatory Information**

**United States Regulations**

<b>HCS Classification:</b>	Not determined	
<b>TSCA 8(a) CDR Exempt/Partial exemption:</b>	Not determined	
<b>TSCA 8(b) Inventory Listed: :</b>		
<b>Component</b>	<b>Chemical</b>	<b>CAS No.</b>
Glucose Reagent	Peroxidase (Horseradish)	9003-99-0
	Glucose Oxidase	9001-37-0
	4-Aminoantipyrine	83-07-8
<b>SARA 302/304:</b>	Not determined	

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**SARA 311/312 Hazards:** 4-Aminoantipyrine Acute Health Hazard CAS No. 83-07-8

**SARA 313:** Not determined

**Clean Water Act (CWA) 307:** This product does not contain any toxic pollutants listed under the U.S. Clean Water Act section 307.

**Clean Water Act (CWA) 311:** This product does not contain any toxic pollutants listed under the U.S. Clean Water Act section 311.

**Clean Air Act (CAA) 112(r):** This product does not contain any chemicals listed under the U.S. Clean Air Act section 112(r) for Accidental Release Prevention.

**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.

### International Regulations

<b>Canada WHMIS:</b>	4-Aminoantipyrine CAS No. 83-07-8	This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR). WHMIS Hazard Class: D1B/ D2B Toxic Materials
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**Australia:** Glucose Oxidase CAS No. 9001-37-0

**AICS**

**European Union:** Glucose Oxidase CAS No. 9001-37-0

**EINECS**

### 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

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