



# Teco Diagnostics

Document	QL801-032
Revision	B
Prepared by	Denise Antonio
Approved by	Jenifer Ohta
Issue date	01/29/2019

[SDS]

## Glycohemoglobin

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

### Section 1 – Product and Company Information

<b>Product Name</b> <b>Catalog Number</b> <b>Product Type</b>	<b>Glycohemoglobin</b> G540-20 & G540-40 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) 463-1111 Monday - Friday 8:00-4:30 PST Fax No. (714) 463-1169
<b>Recommended Use:</b> For in vitro diagnostic use only. For professional use only.		
<b>Restrictions on Use:</b> Not for in vivo use.		

### Section 2 – Hazards Identification

#### Classification

Component	Classification
Resin Reagent Boric Acid	This chemical is considered as hazardous according to the OSHA Hazard Communication Standard (29 CFR 1910.200) Reproductive toxicity (Category 1B)
Glycohemoglobin Standard Human Hemoglobin	Standard is a potential biohazardous material. Source materials from which this product was produced were found negative for HBsAG and for antibodies against HCV and HIV by approved test methods. No test can offer complete assurance that infectious agents are absent; this product should be handled observing the same safety precautions employed when handling any potentially infectious material. Although no SDS is required by the standard, the following general guidelines are given should reagents be inhaled, ingested, or exposed to eyes or skin.

#### Hazardous Component

Component	GHS Label elements, including precautionary statements	
Boric Acid (Resin Reagent)	Pictogram Hazard Symbol	
	Signal Word	Danger
	Hazard Statements	H360D May damage the unborn child.
	Precautionary Statements	P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P405 Store locked up. P501 Dispose of contents/ container to an approved waste disposal plant. P308 + P313 IF exposed or concerned: Get medical advice/ attention.
<b>Hazards not Otherwise classified (HNOC)</b>		None

### Section 3 – Composition/Information on Ingredients

Component	Type	Concentration	CAS#
Resin Reagent	Mixture	Boric Acid, 3%	10043-35-3

### Section 4 – First Aid Measures

<b>General Advice</b>	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician
<b>Inhalation</b>	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
<b>Skin Contact</b>	Wash off with soap and plenty of water. Consult a physician.
<b>Eye Contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

### Section 5- Fire and Explosive Hazard Data

<b>Extinguishing Media</b>	Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
<b>Specific Hazards</b>	No data available
<b>Special Protective Equipment and Advice for Firefighters</b>	Wear self-contained breathing apparatus for firefighting if



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		necessary				
<b>Section 6 – Accidental Release Measures</b>						
<b>Procedure to be Followed in Case of a Leak or Spill</b>	Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.					
<b>Environmental Precautions</b>	Prevent further leakage or spillage if safe to do so. Do not let product enter drains					
<b>Methods for Cleaning Up and Disposal</b>	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.					
<b>Section 7 – Handling and Storage</b>						
<b>Handling</b>	Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed					
<b>Storage</b>	Keep container tightly closed in a dry and well-ventilated place. Protect from heat and direct sunlight.					
<b>Section 8 – Exposure Controls / Personal Protection</b>						
<b>Components with Workplace Control Parameters</b>						
<b>Component</b>	<b>ACGIH TLV</b>	<b>OSHA PEL</b>	<b>NIOSH IDLH</b>	<b>Quebec</b>	<b>Mexico OEL</b>	<b>Ontario TWAEV</b>
Boric Acid	TWA: 2.000000 mg/m <sup>3</sup>  STEL: 6.000000 mg/m <sup>3</sup>	N/A	N/A	N/A	N/A	N/A
<b>Engineering Controls</b>			Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.			
<b>Personal Protective Equipment</b>						
<b>Eye Protection</b>	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).					
<b>Skin Protection</b>	<p>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.</p> <p>Full contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)</p> <p>Splash contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under</p>					



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	conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.
<b>Body Protection</b>	Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
<b>Respiratory Protection</b>	Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
<b>Other Protective Equipment</b>	No data available
<b>Section 9 – Physical Data</b>	
Appearance	Resin Reagent: clear colorless liquid Lysing Reagent: clear colorless liquid Standard: Red lyophilized powder
Odor	No data available
Odor Threshold	No data available
pH	Resin Reagent: 6.9
Melting point/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available
Solubility	Standard: soluble in water
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available
<b>Section 10 – Stability and Reactivity</b>	
<b>Reactivity</b>	Reacts with test specimen
<b>Chemical Stability</b>	Stable under recommended conditions
<b>Possibility of hazardous reactions</b>	No data available
<b>Conditions to Avoid</b>	No data available
<b>Incompatible materials</b>	No data available
<b>Hazardous decomposition products</b>	Hazardous decomposition products formed under fire conditions – Borane/boron oxides
<b>Section 11 – Toxicological Information</b>	
<b>Route of Entry/Exposure</b>	<b>Effects</b>
Acute Exposure	
Skin Contact	No data available
Eye Contact	No data available
Ingestion	No data available



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Inhalation	No data available
Chronic Exposure	No data available

### Toxicity

Component	Chemical	Acute Toxicity	Chronic Toxicity	Other Information
Resin Reagent	Boric Acid	LD50 Oral - Rat - 2,660 mg/kg  Fetotoxicity Presumed human reproductive toxicant. May damage the unborn child.	N/A	RTECS: ED4550000 Toxicity reported for borates in humans: ingestion or absorption may cause nausea, vomiting, diarrhea, abdominal cramps, and erythematous lesions on the skin and mucous membranes. Other symptoms include: circulatory collapse, tachycardia, cyanosis, delirium, convulsions, and coma. Death has been reported to occur in infants from less than 5 grams and in adults from 5 to 20 grams. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Liver - Irregularities - Based on Human Evidence Liver - Irregularities - Based on Human Evidence

### Carcinogenicity: This table indicates whether which agency has listed any component as a carcinogen

IARC	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH	No data available
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

### Section 12 – Ecological Information

Toxicity	Toxicity to fish LC50 - Ptychocheilus lucius - 279 mg/l - 96 h LC50 - Lepomis macrochirus (Bluegill) - > 1,021 mg/l - 96 h Toxicity to daphnia and other aquatic invertebrates LC50 - Daphnia magna (Water flea) - 53.2 mg/l - 21 d EC50 - Daphnia magna (Water flea) - 133 mg/l - 48 h
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Water hazards	No data available



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Other adverse effects	No data available
<b>Section 13 – Disposal Considerations</b>	
Product	Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
Contaminated Packaging	Dispose of as unused product.
<b>Section 14 – Transport Information</b>	
UN Number	Not regulated
UN Proper Shipping Name	Not regulated
Transport Hazard Class	Not regulated
Packing Group	Not regulated
Environmental Hazards	Not regulated
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not regulated
DOT	Not regulated
IMDG	Not regulated
IATA	Not regulated
Special Precautions	Not regulated
<b>Section 15 – Regulatory Information</b>	
HCS Classification	N/A
SARA 302 Components	No chemicals
SARA 313 Components	This material does not contain any chemical components with known CAS numbers that exceed the threshold (DeMinimis) reporting levels established by SARA Title III, Section 313.
SARA 311/312 Components	Chronic Health Hazard
SARA 304 Components	No data available
Clean Water Act 307	No data available
Clean Water Act 311	No data available
Clean Air Act 112	No data available
U.S. State – Illinois Right to Know	No data available
U.S. State – Massachusetts Right to Know	Potassium Cyanide – CAS No. 151-50-8
U.S. State – New Jersey Right to Know	Boric Acid – CAS No. 10043-35-3 Potassium Cyanide – CAS No. 151-50-8
U.S. State – Pennsylvania Right to Know	Boric Acid – CAS No. 10043-35-3 Potassium Cyanide – CAS No. 151-50-8
U.S. State – Rhode Island Right to Know	N/A
U.S. State – California Prop. 65	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.
<b>Section 16 – Other Information</b>	
This Product is labeled in accordance with CFR 21 (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: 01/29/2019	