

## 1. Product and Company Identification

### Product Identifier

<b>Product Name:</b>	Glucose Reagent
<b>Product Code:</b>	BK-671640D (BK-671640AD contains 1,3-Bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione, Ethanol, Glycerol) (BK-671640BD contains 1,3-Bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione and Formaldehyde)
<b>Recommended Use:</b>	For measuring glucose.
<b><u>Company</u></b>	Diamond Diagnostics Inc. 333 Fiske Street Holliston, MA 01746
<b>Company Phone Number</b>	508-429-0450
<b>Email</b>	<a href="mailto:support@diamonddiagnostics.com">support@diamonddiagnostics.com</a>
<b>Emergency Telephone No:</b>	508-429-0450

## 2. Hazards Identification

### GHS- Classification

**Classification** Health Hazard, Irritant, Toxic, Corrosive



### Hazard Statements

H225	Highly flammable liquid and vapor.
H227	Combustible liquid.
H301 + H311 + H331	Toxic if swallowed, in contact with skin, or if inhaled.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H370	Causes damage to organs.
H402	Harmful to aquatic life.

### Precautionary Statements

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/.../equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
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.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P310 + P330	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
P304 + P341	IF INHALED: If breathing is difficult, remove victim 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. Immediately call a POISON CENTER or doctor/physician.
P307 + P311	IF exposed: Call a POISON CENTER or doctor/physician.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P342 + P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
P362	Take off contaminated clothing.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant to extinguish.
P403 + P233	Store in a well ventilated place. Keep container tightly closed.
P403 + P235	Store in a well ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container to an approved waste disposal plant.

### 3. Composition/Information on ingredients

Chemical Name	EC No.	Reach Reg. No.	CAS-No.	Weight %	Classification
1,3-Bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione	229-222-8	Not available	6440-58-0	< 0.1%	Acute Tox. 4; Eye Irrit. 2A; Resp Sens 1; H302, H319, H334
Formaldehyde	200-001-8	Not available	50-00-0	< 0.03%	Flam. Liq. 4; Acute Tox. 3; Skin Corr. 1B; Eye Dam. 1; Skin Sens. 1; Muta. 2; Carc. 1A; Aquatic Acute 3; H227, H301 + H311, H314, H317, H318, H341, H350, H402
Ethanol	200-578-6	Not available	64-17-5	< 5%	Flam. Liq. 2; Eye Irrit. 2A; H225, H319
Glycerol	200-289-5	Not available	56-81-5	41%	Not available

### 4. First Aid Measures

<b>Eye Contact</b>	Flush affected area for at least 15 minutes with water. Make sure to lift eyelids. Seek medical aid.
<b>Skin Contact</b>	Flush affected area with copious amounts of water.
<b>Inhalation</b>	Remove victim to fresh air. If breathing is difficult, give oxygen and seek medical aid.
<b>Ingestion</b>	If swallowed, drink water and seek medical aid if irritation persists.
<b>Notes to Physician</b>	Treat symptomatically

### 5. Fire-Fighting Measures

<b>Flammable Properties</b>	No information available
<b>Flash Point</b>	43°C (BK-671640AD)
<b>Suitable Extinguishing Media</b>	Suitable for surrounding fire
<b>Hazardous Combustion Products</b>	No information available
<b>Protective Equipment and Precautions for Firefighters</b>	Self-contained breathing apparatus and protective clothing.

### 6. Accidental Release Measures

<b>Personnel Precautions</b>	Use personnel protective equipment. Avoid inhaling, ingesting and contact with eyes and skin.
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**Methods for Containment & Cleaning** Soak up with non-combustible absorbent material. Rinse affected area with copious amounts of water. Dispose of in accordance with applicable federal, state, and local laws and regulations.

**Environmental Precautions** Do not let product enter drains.

## 7. Handling and Storage

**Handling** Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition – No Smoking. Take measures to prevent buildup of electrostatic charge.

**Storage** Keep container closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Storage class (TRGS 510): Non-combustible, corrosive hazardous materials.

**Specific use** See Section 1 – Recommended Use

## 8. Exposure Controls / Personnel

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
1,3-Bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione 6440-58-0	Not listed	Not listed	Not listed
Formaldehyde 50-00-0	C; 0.300000 ppm;	PEL; 0.750000 ppm STEL; 2.000000 ppm	TWA; 0.016000 ppm C; 0.100000 ppm
Ethanol 64-17-5	TWA; 1000.000000 ppm STEL; 1000.000000 ppm	TWA; 1000 ppm, 1900 mg/m3	TWA; 1000.000000 ppm, 1900.000000 mg/m3
Glycerol 56-81-5	Not listed	TWA; 15mg/m3 TWA; 5 mg/m3	Not listed

**Engineering Measures** Showers  
Eye Wash Stations  
Ventilation Systems

### Personnel Protective Equipment

**Eye/Face Protection** Safety goggles with side-shields

**Skin Protection** Wear protective gloves/clothing

**Respiratory Protection** If exposure limits are exceeded or irritation is experienced; NISOH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required high airborne containment concentrations. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene Measures** Complete suit protecting against chemicals, Flame resistant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Environment Exposure** Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

## 9. Physical and Chemical Properties

**Appearance** Clear Liquid

**Odor** Slight solvent odor (BK-671640AD)

**Odor Threshold** No information available

**pH** 6 (BK-671640AD)

**Melting Point** No information available

**Freezing Point** 0°C

**Initial Boiling Point** Approx. 100 °C

**Flash Point** No information available

**Evaporation Rate** No information available

**Flammability (solid, gas)** No information available

<b>Upper/Lower flammability or explosive 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>Water Solubility</b>	Miscible (BK-671640AD), 100% (BK-671640BD)
<b>Partition coefficient: (n-octanol/water)</b>	No information available
<b>Auto-ignition temperature</b>	No information available
<b>Decomposition Temperature °C</b>	No information available
<b>Viscosity</b>	No information available
<b>Explosive properties</b>	No information available
<b>Oxidizing properties</b>	No information available

## 10. Stability and Reactivity

<b>Reactivity</b>	No information available
<b>Chemical Stability</b>	Stable
<b>Incompatible Materials</b>	Strong acids and bases, peroxides
<b>Hazardous Decomposition Products</b>	Formaldehyde will be released when heated to 90°C
<b>Hazardous Polymerization:</b>	Will not occur
<b>Conditions to avoid:</b>	Avoid exposure to extreme heat and light
<b>Suggested Storage:</b>	Store as recommended on product label

## 11. Toxicological Information

<b>Acute Toxicity</b>	No information available
<b>Chronic Toxicity</b>	Frequent and prolonged contact with the skin can cause irritation. May cause eye irritation. If ingested may cause discomfort, nausea, or vomiting. May cause allergic response in persons with preexisting sensitivity to formaldehyde.
<b>Target Organ Effects</b>	No information available
<b>Carcinogenicity</b>	IARC: 1 – Group 1: Carcinogenic to humans (Formaldehyde)  ACGIH: 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 ACGIH.  NTP: Known to be human carcinogen (Formaldehyde)  OSHA: OSHA specifically regulated carcinogen (Formaldehyde)

## 12. Ecological Information

<b>Ecotoxicity</b>	Toxic to fish, daphnia and other aquatic invertebrates.
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## 13. Disposal Considerations

<b>Waste Disposal Method</b>	In accordance with applicable federal, state, and local laws and regulations.
<b>Contaminated Packaging</b>	In accordance with applicable federal, state, and local laws and regulations.

## 14. Transport Information

**IATA** Not regulated

**DOR** Not regulated

## 15. Regulatory Information

**SARA 302 Components** The following components are subject to reporting levels established by SARA Title III, Section 302.

	CAS-No.	Revision Date:
Formaldehyde	50-00-0	2007-07-01

**SARA 313 Components** The following components are subject to reporting levels established by SARA Title III, Section 313.

	CAS-No.	Revision Date:
Formaldehyde	50-00-0	2007-07-01

**SARA 311/312 Hazards** Acute Health Hazard, Fire Hazard, Chronic Health Hazard

### Massachusetts right to know components

	CAS-No.	Revision Date:
Formaldehyde	50-00-0	2007-07-01
Ethanol	64-17-5	2007-03-01
Glycerol	56-81-5	

### Pennsylvania right to know components

	CAS-No.	Revision Date:
1,3-Bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione	6440-58-0	
Formaldehyde	50-00-0	2007-07-01
Ethanol	64-17-5	2007-03-01
Glycerol	56-81-5	

### New Jersey right to know components

	CAS-No.	Revision Date:
1,3-Bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione	6440-58-0	
Formaldehyde	50-00-0	2007-07-01
Ethanol	64-17-5	2007-03-01
Glycerol	56-81-5	

### California Prop. 65 Components

WARNING! This product contains a chemical known to the State of California to cause cancer.

	CAS-No.	Revision Date:
Formaldehyde	50-00-0	2007-09-28

## 16. Other Information

**Issuing Date** 31-December-2008

**Revision Date** 30-November-2015

**Revision Note** No information available

**Recommended Restrictions** No Restrictions

### Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in text.