

1. Product and Company Identification

Product Identifier

Product Name:	Glucose Reagent
Product Code:	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)
Recommended Use:	For measuring glucose.
<u>Company</u>	Diamond Diagnostics Inc. 333 Fiske Street Holliston, MA 01746
Company Phone Number	508-429-0450
Email	support@diamonddiagnostics.com
Emergency Telephone No:	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

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

5. Fire-Fighting Measures

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

6. Accidental Release Measures

Personnel Precautions	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

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

10. Stability and Reactivity

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

11. Toxicological Information

Acute Toxicity	No information available
Chronic Toxicity	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.
Target Organ Effects	No information available
Carcinogenicity	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

Ecotoxicity	Toxic to fish, daphnia and other aquatic invertebrates.
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13. Disposal Considerations

Waste Disposal Method	In accordance with applicable federal, state, and local laws and regulations.
Contaminated Packaging	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.	
Formaldehyde	CAS-No. 50-00-0	Revision Date: 2007-07-01

SARA 313 Components	The following components are subject to reporting levels established by SARA Title III, Section 313.	
Formaldehyde	CAS-No. 50-00-0	Revision Date: 2007-07-01

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

Massachusetts right to know components

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

Pennsylvania right to know components

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

New Jersey right to know components

1,3-Bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione	CAS-No. 6440-58-0	Revision Date:
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.

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