

## 1. Product and Company Identification

### Product Identifier

**Product Name:** BUN Reagent

**Product Code:** BK-667670D  
(BK-667670AD contains 1,3-Bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione, Ethylene Glycol, Glycerol)  
(BK-667670BD contains 1,3-Bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione and Ethylene Glycol)  
(BK-667670CD contains 1,3-Bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione)

**Recommended Use:** For measuring urea.

**Company** Diamond Diagnostics Inc.  
333 Fiske Street  
Holliston, MA 01746

**Company Phone Number** 508-429-0450  
**Email** [support@diamonddiagnostics.com](mailto:support@diamonddiagnostics.com)

**Emergency Telephone No:** 508-429-0450

## 2. Hazards Identification

### GHS- Classification

**Classification** Health Hazard, Irritant



### Hazard Statements

H302 Harmful if swallowed.  
H319 Causes serious eye irritation.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H373 May cause damage to organs through prolonged or repeated exposure.

### Precautionary Statements

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.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.  
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.  
P314 Get medical advice/attention if you feel unwell.  
P337 + P313 If eye irritation persists: Get medical advice/attention.  
P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.  
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
Ethylene Glycol	203-473-3	01-2119456816-28-XXXX	107-21-1	< 6%	Acute Tox. 4; STOT RE 2; H302, H373
Glycerol	200-289-5	Not available	56-81-5	< 6%	Not available

## 4. First Aid Measures

<b>Eye Contact</b>	Flush affected area for 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. Get medical aid if cough or other symptoms appear.
<b>Ingestion</b>	Induce vomiting if swallowed and seek medical attention.
<b>Notes to Physician</b>	Treat symptomatically

## 5. Fire-Fighting Measures

<b>Flammable Properties</b>	No information available
<b>Flash Point</b>	No information available
<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.
<b>Methods for Containment &amp; Cleaning</b>	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.
<b>Environmental Precautions</b>	Do not let product enter drains.

## 7. Handling and Storage

<b>Handling</b>	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.
<b>Storage</b>	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.
<b>Specific use</b>	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
Ethylene Glycol 107-21-1	C; 100.000000 mg/m3	Not listed	Not listed
Glycerol 56-81-5	Not listed	TWA; 15 mg/m3 TWA; 5 mg/m3	Not listed

<b>Engineering Measures</b>	Showers Eye Wash Stations Ventilation Systems
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### 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

<b>Appearance</b>	Clear Liquid
<b>Odor</b>	No information available
<b>Odor Threshold</b>	No information available
<b>pH</b>	No information available
<b>Melting Point</b>	No information available
<b>Freezing Point</b>	0°C
<b>Initial Boiling Point</b>	Approx. 100 °C
<b>Flash Point</b>	No information available
<b>Evaporation Rate</b>	No information available
<b>Flammability (solid, gas)</b>	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>	No information available
<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, oxidizers
<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>	<p>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.</p> <p>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.</p> <p>NTP: 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 NTP.</p> <p>OSHA: 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 OSHA.</p>

## 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

<b>IATA</b>	Not regulated
<b>DOR</b>	Not regulated

## 15. Regulatory Information

<b>SARA 302 Components</b>	No chemicals in this material are subject to reporting requirements of SARA Title III, Section 302.	
<b>SARA 313 Components</b>	The following components are subject to reporting levels established by SARA Title III, Section 313.	
Ethylene Glycol	CAS-No. 107-21-1	Revision Date: 2007-07-01
<b>SARA 311/312 Hazards</b>	Acute Health Hazard, Chronic Health Hazard	
<b>Massachusetts right to know components</b>		
Ethylene Glycol	CAS-No. 107-21-1	Revision Date: 2007-07-01
Glycerol	56-81-5	
<b>Pennsylvania right to know components</b>		
1,3-Bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione	CAS-No. 6440-58-0	Revision Date:
Ethylene Glycol	107-21-1	2007-07-01
Glycerol	56-81-5	
<b>New Jersey right to know components</b>		
1,3-Bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione	CAS-No. 6440-58-0	Revision Date:
Ethylene Glycol	107-21-1	2007-07-01
Glycerol	56-81-5	

**California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

## 16. Other Information

<b>Issuing Date</b>	31-December-2008
<b>Revision Date</b>	30-November-2015
<b>Revision Note</b>	No information available
<b>Recommended Restrictions</b>	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.