

## 1. Product and Company Identification

### Product Identifier

**Product Name:** Creatinine Reagent

**Product Code:** BK-472525D  
(BK-472525AD contains Sodium Hydroxide, Sodium Phosphate Tribasic Dodecahydrate, Sodium Dodecyl Sulphate, and Ethylene Glycol)  
(BK-472525BD contains Picric Acid)

**Recommended Use:** For the quantitative determination of creatinine in serum and urine.

### 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

Corrosive, Flammable, Irritant, Health Hazard, Toxic



#### Hazard Statements

H228	Flammable solid.
H290	May be corrosive to metals.
H301 + H311	Toxic if swallowed. Toxic in contact with skin.
H302 + H332	Harmful if swallowed, Harmful if inhaled.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H402	Harmful to aquatic life.
H412	Harmful to aquatic life with long-lasting effects.

#### Precautionary Statements

P210	Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P234	Keep only in original container.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/.../equipment.
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 + P312	IF SWALLOWED: Call a POISON CENTER/ doctor/.../if you feel unwell.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302 + P352	IF ON SKIN (or hair): Wash with plenty of water.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P310

Immediately call a POISON CENTER/doctor.

P314

Get medical advice/attention if you feel unwell.

P321

Specific treatment (see ... on this label).

P330

Rinse mouth.

P332 + P313

If skin irritation occurs: Get medical advice/attention.

P333 + P313

If skin irritation or rash occurs: Get medical advice/attention.

P361

Remove/Take off immediately all contaminated clothing.

P362

Take off contaminated clothing.

P363

Wash contaminated clothing before reuse.

P370 + P378

In case of fire: Use dry sand, dry chemical or alcohol-resistant to extinguish.

P390

Absorb spillage to prevent material damage.

P403 + P233

Store in a well ventilated place. Keep container tightly closed.

P405

Store locked up.

P406

Store in corrosive resistant/... container with a resistant inner liner.

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
Sodium Hydroxide	215-185-5	01-2119457892-27-XXXX	1310-73-2	< 5%	Met. Corr. 1; Skin Corr. 1A; Eye Dam. 1; Aquatic Acute 3; H290, H314, H318, H402
Sodium Phosphate Tribasic Dodecahydrate	231-509-8	Not available	10101-89-0	< 5%	Skin Corr. 1B; Eye Dam. 1; H314
Sodium Dodecyl Sulphate	205-788-1	Not available	151-21-3	< 0.5%	Flam. Sol. 2; Acute Tox. 4; Skin Irrit. 2; Eye Dam. 1; STOT SE 3; Aquatic Acute 2; Aquatic Chronic 3; H228, H302 + H332, H315, H318, H335, H401, H412
Ethylene Glycol	203-473-3	01-2119456816-28-XXXX	107-21-1	< 1.0%	Acute Tox. 4; STOT RE 2; H302, H373
Picric Acid	201-865-9	Not available	88-89-1	< 3%	Expl. 1.1; Acute Tox. 3; Skin Sens 1; H201, H301 + H311 + H331, H317

### 4. First Aid Measures

<b>Eye Contact</b>	Flush affected area with copious amounts of water.
<b>Skin Contact</b>	Flush affected area with copious amounts of water.
<b>Inhalation</b>	Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical aid.
<b>Ingestion</b>	Rinse mouth with water, drink large quantities of water and call a physician.
<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>	Explosive when dry
<b>Protective Equipment and Precautions for Firefighters</b>	Self-contained breathing apparatus and protective clothing
<b>Further Information</b>	No information available

## 6. Accidental Release Measures

<b>Personnel Precautions</b>	Use personnel protective equipment. Avoid contact with skin, eyes and clothing. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.
<b>Methods for Containment &amp; Cleaning</b>	Soak up 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 formation of dust aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventative fire protection. For precautions see section 2.2.
<b>Storage</b>	Keep container closed in a dry and well-ventilated place.
<b>Specific use</b>	See Section 1 – Recommended Use

## 8. Exposure Controls / Personnel

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium Hydroxide 1310-73-2	C; 2 mg/m <sup>3</sup>	TWA; 2.000000 mg/m <sup>3</sup>	C; 2.000000 mg/m <sup>3</sup>
Sodium Phosphate Tribasic Dodecahydrate 10101-89-0	Not listed	Not listed	Not listed
Sodium Dodecyl Sulphate 151-21-3	Not listed	Not listed	Not listed
Ethylene Glycol 107-21-1	C; 100.000000 mg/m <sup>3</sup>	Not listed	Not listed
Picric Acid 88-89-1	TWA; 0.100000 mg/m <sup>3</sup>	TWA; 0.100000 mg/m <sup>3</sup>	TWA; 0.100000 mg/m <sup>3</sup> ST; 0.300000 mg/m <sup>3</sup>

<b>Engineering Measures</b>	Showers Eye Wash Stations Ventilation Systems
<b>Personnel Protective Equipment</b>	
<b>Eye/Face Protection</b>	Safety goggles with side-shields
<b>Skin Protection</b>	Wear protective gloves/clothing
<b>Respiratory Protection</b>	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.
<b>Hygiene Measures</b>	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.
<b>Environment Exposure</b>	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 (BK-472525AD), Clear yellow liquid (BK-472525BD)
<b>Odor</b>	No information available
<b>Odor Threshold</b>	No information available
<b>pH</b>	1-2 (BK-472525BD)
<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>	Miscible
<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, Bases, and Oxidizers
<b>Hazardous Decomposition Products</b>	No information available
<b>Hazardous Polymerization:</b>	Will not occur
<b>Conditions to avoid:</b>	Keep away from incompatible material
<b>Suggested Storage:</b>	Store as recommended on product label

## 11. Toxicological Information

<b>Acute Toxicity</b>	No information available
<b>Chronic Toxicity</b>	Irritation of affected area.
<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 NTP.</p>

## 12. Ecological Information

<b>Ecotoxicity</b>	No information available
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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.	
	<b>CAS-No.</b>	<b>Revision Date:</b>
Ethylene Glycol	107-21-1	2007-07-01
Picric Acid	88-89-1	2007-07-01
<b>SARA 311/312 Hazards</b>	Acute Health Hazard, Chronic Health Hazard	

### Massachusetts right to know components

	<b>CAS-No.</b>	<b>Revision Date:</b>
Sodium Hydroxide	1310-73-2	2007-03-01
Sodium Phosphate Tribasic Dodecahydrate	10101-89-0	2007-03-01
Ethylene Glycol	107-21-1	2007-07-01
Picric Acid	88-89-1	2007-07-01

### Pennsylvania right to know components

	<b>CAS-No.</b>	<b>Revision Date:</b>
Sodium Hydroxide	1310-73-2	2007-03-01
Sodium Phosphate Tribasic Dodecahydrate	10101-89-0	2007-03-01
Sodium Dodecyl Sulphate	151-21-3	
Ethylene Glycol	107-21-1	2007-07-01
Picric Acid	88-89-1	2007-07-01

### New Jersey right to know components

	<b>CAS-No.</b>	<b>Revision Date:</b>
Sodium Hydroxide	1310-73-2	2007-03-01
Sodium Phosphate Tribasic Dodecahydrate	10101-89-0	2007-03-01
Sodium Dodecyl Sulphate	151-21-3	
Ethylene Glycol	107-21-1	2007-07-01
Picric Acid	88-89-1	2007-07-01

### 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>	13-September-2012
<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.