1. Product and Company Identification

Product Identifier

Product Name: Creatinine Reagent

Product Code: BK-443340D
BK-443340AD (Creatinine Solution)
BK-443340BD (Picric Acid)

Recommended Use: For 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
Emergency Telephone No: 508-429-0450

2. Hazards Identification

GHS - Classification

Classification: Flammable, Corrosive, Skin Irritant, Eye Irritant

Hazard Statements
H226 Flammable Liquids
H290 Maybe corrosive to metals
H301 + H311 Toxic if swallowed or in contact with skin
H302 + H332 Harmful if swallowed or inhaled
H314 Causes severe skin burns and eye damage
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
H401 Toxic to aquatic life
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 in original container.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting equipment.
P260 Do not breathe dust/fumes/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.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P312 + P330 + P331 IF SWALLOWED: Call a Poison Center or doctor / physician if you feel unwell. Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): 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.
P305 + P351 + P338 + P310 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.
P314 Get Medical advice/attention if you feel unwell.
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 a corrosive resistant stainless container with a resistant inner liner.
P501 Dispose of contents/container to an approved waste disposal plant.

### 3. Composition/Information on ingredients

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>EC No.</th>
<th>Reach Reg. No.</th>
<th>CAS-No.</th>
<th>Weight %</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Hydroxide</td>
<td>215-185-5</td>
<td>01-2119457892-27-XXXX</td>
<td>1310-73-2</td>
<td>&lt; 5%</td>
<td>Met. Corr. 1; Skin Corr. 1A; Eye Dam. 1; Aquatic Acute 3; H290, H314, H318, H402</td>
</tr>
<tr>
<td>Sodium phosphate tribasic dodecahydrate</td>
<td>231-509-8</td>
<td>Not available</td>
<td>10101-89-0</td>
<td>&lt; 5%</td>
<td>Skin Corr. 1B; Eye Dam. 1; H314</td>
</tr>
<tr>
<td>Sodium dodecyl sulfate</td>
<td>205-788-1</td>
<td>Not available</td>
<td>151-21-3</td>
<td>&lt; 0.5%</td>
<td>Flam. Sol. 2; Acute Tx. 4; Skin Irrit. 2; Eye Dam. 1; STOT SE 3; Aquatic Acute 2; Aquatic Chronic 3; H228, H302 + H332, H315, H318, H335, H401, H412</td>
</tr>
<tr>
<td>Ethylene Glycol</td>
<td>203-473-3</td>
<td>01-2119456816-2-XXXX</td>
<td>107-21-1</td>
<td>&lt; 1.0%</td>
<td>Acute Tox. 4; STOT RE 2; H302, H373</td>
</tr>
<tr>
<td>Picric Acid</td>
<td>201-865-9</td>
<td>Not available</td>
<td>88-89-1</td>
<td>&lt; 3%</td>
<td>Expl/ 1; Acute Tox. 3; Skin Sens. 1; H201, H301 + H311 + H331, H317</td>
</tr>
</tbody>
</table>

### 4. First Aid Measures

- **Eye Contact**: Flush affected area with copious amounts of water.
- **Skin Contact**: Flush affected area with copious amounts of water.
- **Inhalation**: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical aid.
- **Ingestion**: Rinse mouth with water. Drink large quantities of water and call a physician.
- **Notes to Physician**: Treat symptomatically

### 5. Fire-Fighting Measures

- **Flammable Properties**: No information available
- **Flash Point**: No information available
- **Suitable Extinguishing Media**: Suitable for surrounding fire
- **Hazardous Combustion Products**: Explosive when dry
- **Protective Equipment and Precautions for Firefighters**: Wear self-contained breathing apparatus for firefighting if necessary.

### 6. Accidental Release Measures

- **Personnel Precautions**: 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.
- **Methods for Containment & Cleaning**: Soak 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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Hydroxide 1310-73-2</td>
<td>TWA 2.00000 mg/m³</td>
<td>Not listed</td>
<td>2.00000 mg/m³</td>
</tr>
<tr>
<td></td>
<td>C 2.00000 mg/m³</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>C 2 mg/m³</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium phosphate tribasic</td>
<td>5 mg/m³ STEL</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
<tr>
<td>dodecahydrate 10101-89-0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium dodecyl sulfate 151-21-3</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
<tr>
<td>Ethylene Glycol 107-21-1</td>
<td>C 100.000000 mg/m³</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
<tr>
<td>Picric Acid 88-89-1</td>
<td>TWA 0.100000 mg/m³</td>
<td>TWA 0.100000 mg/m³</td>
<td>TWA 0.100000 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ST 0.30000 mg/m³</td>
</tr>
</tbody>
</table>

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 (AD), Clear Yellow Liquid (BD)

Odor
No information available

Odor Threshold
No information available

pH
1-2 (BD)

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
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, strong oxidizers
Hazardous Decomposition Products  No information available
Hazardous Polymerization:  Will not occur
Conditions to avoid:  Keep away from incompatible material
Suggested Storage:  Store as recommended on product label

11. Toxicological Information

Acute Toxicity  No information available
Chronic Toxicity  Irritation of affected area
Target Organ Effects  No information available
Carcinogenicity  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 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: 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.

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.

12. Ecological Information

Ecotoxicity  Toxic to fish, daphnia and other aquatic invertebrates.

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
15. Regulatory Information

SARA 302 Components
No chemicals in this material are subject to reporting requirements of SARA Title III, Section 302.

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

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>Revision Date</th>
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</thead>
<tbody>
<tr>
<td>Ethylene Glycol</td>
<td>20017-07-01</td>
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SARA 311/312 Hazards
Fire Hazard, Acute Health Hazard, Chronic Health Hazard

Massachusetts right to know components

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Pennsylvania right to know components

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<tr>
<td>Sodium dodecyl sulphate</td>
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New Jersey right to know components

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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

Issuing Date
13-March-2007

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.