

## 1. Product and Company Identification

### Product Identifier

**Product Name:** Creatinine Alkaline Buffer

**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](mailto: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  
P363  
P370 + P378  
P390  
P403 + P233  
P405  
P406  
P501

Get Medical advice/attention if you feel unwell.  
Wash contaminated clothing before reuse.  
In case of fire: Use dry sand, dry chemical or alcohol-resistant to extinguish.  
Absorb spillage to prevent material damage.  
Store in a well ventilated place. Keep container tightly closed.  
Store locked up.  
Store in a corrosive resistant stainless container with a resistant inner liner.  
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 sulfate                  | 205-788-1 | Not available         | 151-21-3   | < 0.5%   | 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 |
| Ethylene Glycol                         | 203-473-3 | 01-2119456816-2-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; 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> | Wear self-contained breathing apparatus for firefighting if necessary. |

### 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 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   |
|---|---|--------------------------------|--|
| Sodium Hydroxide<br>1310-73-2                         | TWA 2.00000 mg/m <sup>3</sup><br>C 2.00000 mg/m <sup>3</sup><br>C 2 mg/m <sup>3</sup> | Not listed                     | 2.00000 mg/m <sup>3</sup>                                      |
| Sodium phosphate tribasic dodecahydrate<br>10101-89-0 | 5 mg/m <sup>3</sup> STEL  | Not listed                     | Not listed   |
| Sodium dodecyl sulfate<br>151-21-3                    | Not listed  | Not listed                     | Not listed   |
| Ethylene Glycol<br>107-21-1                           | C 100.000000 mg/m <sup>3</sup>  | Not listed                     | Not listed   |
| Picric Acid<br>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><br>ST 0.30000 mg/m <sup>3</sup> |

|                                       |   |
|---------------------------------------|---|
| <b>Engineering Measures</b>           | Showers<br>Eye Wash Stations<br>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 (AD), Clear Yellow Liquid (BD) |
| <b>Odor</b>   | No information available                    |
| <b>Odor Threshold</b>                               | No information available                    |
| <b>pH</b>   | 1-2 (BD)                                    |
| <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                    |

|   |                          |
|---|--------------------------|
| Vapor density                               | No information available |
| Relative density                            | No information available |
| Water Solubility                            | Miscible                 |
| Partition coefficient:<br>(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      | <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

|             |   |
|-------------|---|
| 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 |
|------|---------------|

**DOR** 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.<br>107-21-1  | Revision Date:<br>2007-03-01<br>20017-07-01 |
| <b>SARA 311/312 Hazards</b>                   | Fire Hazard, Acute Health Hazard, Chronic Health Hazard  |   |
| <b>Massachusetts right to know components</b> |  |   |
| Sodium Hydroxide                              | CAS-No.<br>1310-73-2   | Revision Date:<br>2007-03-01                |
| Sodium phosphate tribasic dodecahydrate       | 10101-89-0   | 2007-03-01                                  |
| Ethylene Glycol                               | 107-21-1   | 20017-07-01                                 |
| <b>Pennsylvania right to know components</b>  |  |   |
| Sodium Hydroxide                              | CAS-No.<br>1310-73-2   | Revision Date:<br>2007-03-01                |
| Sodium phosphate tribasic dodecahydrate       | 10101-89-0   | 2007-03-01                                  |
| Sodium dodecyl sulphate                       | 151-21-3   |   |
| Ethylene Glycol                               | 107-21-1   | 20017-07-01                                 |
| <b>New Jersey right to know components</b>    |  |   |
| Sodium Hydroxide                              | CAS-No.<br>1310-73-2   | Revision Date:<br>2007-03-01                |
| Sodium phosphate tribasic dodecahydrate       | 10101-89-0   | 2007-03-01                                  |
| Sodium dodecyl sulphate                       | 151-21-3   |   |
| Ethylene Glycol                               | 107-21-1   | 20017-07-01                                 |
| <b>California Prop. 65 Components</b>         | 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-March-2007            |
| <b>Revision Date</b>            | 30-November-2015         |
| <b>Revision Note</b>            | No information available |
| <b>Recommended Restrictions</b> | No Restrictions          |

### Disclaimer

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