

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

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

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

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

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	<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.
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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
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DOR 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.	
Ethylene Glycol	CAS-No. 107-21-1	Revision Date: 20017-07-01
SARA 311/312 Hazards	Fire Hazard, Acute Health Hazard, Chronic Health Hazard	
Massachusetts right to know components		
Sodium Hydroxide	CAS-No. 1310-73-2	Revision Date: 2007-03-01
Sodium phosphate tribasic dodecahydrate	10101-89-0	2007-03-01
Ethylene Glycol	107-21-1	20017-07-01
Pennsylvania right to know components		
Sodium Hydroxide	CAS-No. 1310-73-2	Revision Date: 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
New Jersey right to know components		
Sodium Hydroxide	CAS-No. 1310-73-2	Revision Date: 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
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

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