

# Material Safety Data Sheet

<b>Product Catalog Number:</b> 518-480	<b>Note:</b> Creatinine Reagent Set Components: Picric Acid Reagent Sodium Hydroxide Reagent Creatinine Standard
<b>Name (on Label):</b> ATAC® Creatinine Reagent Kit	

Section I - NAME AND PRODUCT	
<b>Manufacturer's Name:</b> Vital Diagnostics, Inc.	<b>Emergency Telephone Number:</b> 1-760-602-8700
<b>Address:</b> 27 Wellington Road Lincoln, RI 02865	<b>Telephone Number for Information:</b> 1-401-642-8400; 1-800-345-2822
	<b>Date Prepared:</b> 6/1/08

Section II - Hazard Ingredients/Identity Information								
Hazardous Components	CAS #	NFPA			Conc.	% (WT)	TLV	OSHA PEL
		Health	Fire	Reactivity				
Picric Acid	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sodium Hydroxide	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

PEL: Permissible Exposure Limit established by the Occupational Safety and Health Administration (OSHA).  
TLV: Threshold Limit Value established by the American Conference of Governmental Industrial Hygienists, 1986-87.

Section III - Physical/Chemical Characteristics	
<b>Boiling Point:</b> N/A	<b>Specific Gravity (H<sub>2</sub>O = 1):</b> N/A
<b>Vapor Pressure (mm Hg.):</b> N/A	<b>Melting Point:</b> N/A
<b>Vapor Density (AIR = 1):</b> N/A	<b>Evaporation Rate:</b> N/A (Butyl Acetate = 1)
<b>Solubility in Water:</b> All components soluble in or miscible with water.	<b>Other Physical Data:</b> N/A
<b>Appearance and Odor:</b> Picric Acid Reagent: Clear, yellow liquid. Sodium Hydroxide Reagent: Clear, colorless liquid. Creatinine Standard: Clear, colorless liquid.	

Section IV - Fire and Explosion Hazard Data		
<b>Flash Point (Method Used):</b> N/A	<b>Flammable Limits</b>	
	<b>Lower Explosive Limit:</b>	<b>Upper Explosive Limit:</b>
	N/A	N/A
<b>Extinguishing Media:</b> Water spray, carbon dioxide, dry chemical powder.		
<b>Special Fire Fighting Procedures:</b> Wear self-contained breathing apparatus and protective clothing to prevent contact with the eyes and skin.		
<b>Unusual Fire and Explosion Hazards:</b> Becomes explosive if allowed to dry. Must be kept at > 10% water content.		

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Section V - Reactivity Data			
<b>Stability:</b> N/A	Unstable		<b>Conditions to Avoid:</b> N/A
	Stable		
<b>Incompatibility</b> ( <i>Materials to Avoid</i> ): Picric Acid incompatible with oxidizing agents. Sodium Hydroxide Reagent incompatible with acids. Creatinine Standard (0.1M HCl) incompatible with carbonates and hydroxides.			
<b>Hazardous Decomposition or Byproducts:</b> None known			
<b>Hazardous Polymerization</b> N/A	May Occur		<b>Conditions to Avoid:</b> N/A
	Will Not Occur		

Section VI - Health Hazard Data			
<b>Route(s) of Entry:</b>	<b>Inhalation:</b> N/A	<b>Skin:</b> Yes	<b>Ingestion:</b> Yes
<b>Health Hazards</b> ( <i>Acute and Chronic</i> ): Chronic: N/A Acute: External: Sodium Hydroxide Reagent is caustic. Avoid contact with skin and eyes. If in contact with skin and eyes, flush with large amounts of water for at least 15 minutes. Creatinine Standard contains 0.1 M Hydrochloric Acid and can cause severe burns; permanent visual damage may occur. Dermatitis and photosensitization may result from industrial contact. Internal: Gastric Lavage. Call a physician. Picric Acid Reagent' LD s.c. in frogs = 200 mg/kg. Human toxicity: local or generalized allergic reactions may occur following topical use. Ingestion or percutaneous absorption may cause nausea, vomiting, diarrhea, abdominal pain, oliguria, anuria, yellow staining of skin (not icterus), pruritis, skin eruptions, stupor, convulsions, death.			
<b>Carcinogenicity:</b> N/A	<b>NTP:</b> N/A	<b>IARC Monographs:</b> N/A	<b>OSHA Regulated:</b> N/A
<b>Signs and Symptoms of Exposure:</b> N/A			
<b>Medical Conditions Generally Aggravated by Exposure:</b> N/A			
<b>Emergency and First Aid Procedures:</b> <b>Ingestion:</b> Call a physician. <b>Skin:</b> If in contact with skin, flush with large amounts of water for at least 15 minutes. <b>Eyes:</b> If in contact with eyes, flush with large amounts of water for at least 15 minutes. <b>Inhalation:</b>			

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## Section VII - Precautions for Safe Handling and Use

**Steps to Be Taken in Case Material is Released or Spilled:** Sprinkle Sodium Bicarbonate on spills to neutralize 0.1 M Hydrochloric Acid or absorb Picric Acid, then may be cleaned up with hot soapy water and sponge. Pour 5% Acetic Acid (vinegar) on Sodium Hydroxide Reagent to neutralize then may be cleaned with hot, soapy water. Wear rubber gloves during cleanup.

**Waste Disposal Method:** May be disposed down standard sink with copious amounts of water. LEAD PLUMBING IS TO BE AVOIDED.

**Precautions to Be taken in Handling and Storing:** Store at < 30°C. No special handling is known to be necessary. Note: Picric Acid must never be allowed to crystallize to a state of dryness, as it becomes explosive when rapidly heated or by percussion.

**Other Precautions:** N/A

## Section VIII - Control Measures

**Respiratory Protection** (*Specify Type*): N/A

<b>Ventilation:</b>	<b>Local Exhaust:</b> N/A	<b>Protective Gloves:</b> Recommended
	<b>Mechanical</b> ( <i>General</i> ): N/A	<b>Eye Protection:</b> Recommended
	<b>Special:</b> N/A	<b>Other Protective Clothing or Equipment:</b> N/A
	<b>Other:</b> N/A	<b>Work/Hygienic Practices:</b> Exercise the normal precautions required for the handling of all laboratory reagents. Pipetting by mouth is not recommended for any laboratory reagent.

## Section IX – Other Information

**Miscellaneous Information:** N/A

*The information contained in this document is believed to be factual, however, nothing presented herein is to be taken as a warranty or representation for which Vital Diagnostics shall be liable.*