



Teco Diagnostics
Clinical Reagent Specialists

Form	QL801-026
Revision	A
Prepared by	Brian Anderson
Approved by	Owen Bry
Issue date	1/14/2011

[MSDS]

Creatinine, Kinetic

1268 N. Lakeview Ave. Anaheim, CA 92807 Phone: (714) 463-1111 Fax: (714) 463-1169 www.tecodiag.com

Section 1 – Product and Company Information

Product Name	Creatinine, Kinetic	Emergency Telephone No.
Catalog Number	C514-480	CHEMTREC (800) 424-9300
Product Type	Clinical Chemistry Reagent	International CHEMTREC (703) 527-3887
Company Name	Teco Diagnostics	Company Telephone No.
Street Address	1268 N. Lakeview Avenue	(800) 222-9880 or (714) 693-7788 Monday - Friday 8:00-4:30 PST
City, State, Zip Code, Country	Anaheim, CA 92807 USA	Fax No. (714) 693-3838

Section 2 – Composition/Information on Ingredients

Kit Components	Chemical Names	Concentration	CAS#
Creatinine Picric Acid Reagent:	Picric acid	10 mM	88-89-1
Creatinine Sodium Hydroxide Reagent:	Sodium hydroxide	240 mM	1310-73-2
Creatinine Standard:	Creatinine in hydrochloric acid with preservative	5 mg/dl	60-27-5

Section 3 – Hazard Identification

Emergency Overview:
Note: The following information applies to the component materials at higher concentrations than present in the reagent. Although lower concentrations are present in the reagent, appropriate safety precautions should still be taken.
Note: Picric acid is explosive when dry.
Routes of Entry/Exposure: skin contact, eye contact, inhalation, ingestion, and skin absorption
Skin contact: May cause irritation.
Skin absorption: May be harmful if absorbed through the skin.
Eye contact: May cause irritation.
Ingestion: May be harmful if ingested.
Inhalation: May cause irritation to mucous membranes and upper respiratory tract.
In case of inhalation, ingestion, eye contact, or skin contact, refer to section 4.
Effects of chronic exposure: No information available.
Sensitization to product: No information available.
Carcinogenicity: Not a known carcinogen

Section 4 – First Aid Measures

Skin:	In case of skin contact, immediately flush area with plenty of water for at least 15 minutes. Call a physician if necessary.
Eyes:	Immediately flush eyes with plenty of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician if necessary.
Ingestion:	If swallowed, wash out mouth with water provided person is conscious. Call a physician.
Inhalation:	If inhaled, remove to fresh air. If not breathing give artificial respiration, but NOT by mouth-to-mouth resuscitation. If breathing is difficult, give oxygen. Call a physician.

Section 5 – Fire and Explosive Hazard Data

Flammable:	No
Extinguishing Media:	Use media appropriate for surrounding materials and site conditions.
Flash Point:	Not applicable
Explosion Limits:	Not applicable
Firefighting Measures:	Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Unusual Fire or Explosion hazards:	May emit toxic fumes under fire conditions. Picric acid is explosive when dry.

Section 6 – Accidental Release Measures

Procedure to be Followed in Case of Leak or Spill	Personal Protection
Ventilate the area. Absorb on inert material. Place material and contaminated disposables into a suitable container, seal, label and hold for disposal. Wash spill site after material pickup is complete.	Refer to Section 8.
Methods for Cleaning Up and Disposal	
Refer to section 13.	

Section 7 – Handling and Storage

Handling	Storage
Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Avoid inhalation or ingestion. Do not pipet by mouth. Refer to Section 8	Store according to package directions.



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Section 8 – Exposure Controls / PPE (Personal Protective Equipment)

Local Exhaust:	Not required.
Ventilation:	Good general ventilation is satisfactory.
Protective Clothing:	Lab coat
Protective Gloves:	Chemical resistant latex or rubber gloves.
Eye Protection:	Safety glasses or goggles
Respiratory Protection:	None required where adequately ventilated.
Other Protection:	Avoid contact and inhalation. Do not pipet by mouth. Do not get in eyes, on skin or clothing. Wash contaminated clothing before reuse. Safety shower and eyewash should be available.
General Hygiene Measures:	Wash hands thoroughly after handling.

Section 9 - Physical Data

Boiling Point Not available	Solubility in Water Not applicable	Specific Gravity Not available
Odor No Significant Odor	pH Creatinine Picric Acid reagent: Acidic Creatinine Sodium Hydroxide reagent: Basic Creatinine Standard: Not relevant to safety	Appearance Creatinine Picric Acid Reagent: yellow liquid. Creatinine Sodium Hydroxide: Colorless to pale yellow liquid Creatinine Standard: Colorless to pale yellow liquid

Section 10 – Stability and Reactivity

Stability Stable, under normal handling and storage conditions.	Materials to Avoid (Picric Acid Reagent): Strong oxidizing agents, strong bases, reducing agents, heavy metals, heavy metal salts, ammonia
Conditions to Avoid Heat. Picric acid can become explosive upon drying or evaporation.	Materials to Avoid (Sodium Hydroxide Reagent): Acids, organic materials, chlorinated solvents, aluminum, phosphorus, tin/tin oxides, zinc
Hazardous Decomposition Products Creatinine Picric Acid Reagent: carbon monoxide, carbon dioxide, nitrogen oxides Creatinine Sodium Hydroxide Reagent: sodium, sodium oxides.	Hazardous Polymerization Will not occur

Section 11 – Toxicological information

No information available.

Section 12 – Ecological Information

No information available.

Section 13 – Disposal Considerations

Contact a licensed professional waste disposal service to dispose of this material.
Dispose of in accordance with current national and regional regulations.

Section 14 – Transport Information

Product is stable under normal conditions.

Section 15 – Regulatory Information

Creatinine Picric Acid Reagent OSHA Status: Regulated under Subpart Z Classification: The preparation is classified and labeled according to EEC Directive n.88/379. Risk Statements: NA, Safety Statements: NA	Creatinine Standard OSHA Status: Regulated under Subpart Z Classification: The preparation is classified and labeled according to EEC Directive n.88/379. Risk Statements: NA, Safety Statements: NA
Creatinine Sodium Hydroxide Reagent OSHA Status: Regulated under Subpart Z Classification: The preparation is classified and labeled according to EEC Directive n.88/379. Symbol: C (Corrosive) Risk Statements: Harmful by inhalation, in contact with skin and if swallowed. Causes burns. Irritating to eyes, respiratory system and skin. Safety Statements: Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of water. If swallowed, seek medical advice immediately and show this container or label.	

Section 16 – Other Information

This Product is labeled in accordance with CFR21 (Food and Drugs), Section 809.10.
The information contained herein has been compiled from data presented in various technical sources believed to be accurate. We make no warranties, express or implied, and assume no liability in connection with the use of this information. It is the user's responsibility to determine the suitability of this information and to assure the adoption of necessary safety precautions.



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N/A - Not Applicable or Not Available