

Document	QL801-023
Revision	B
Prepared by	Judith Swaris
Approved by	Jenifer Ohta
Issue date	12/20/2016

[SDS]

## CK-NAC (UV-Kinetic)

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

### Section 1 – Identification

<b>Product Name</b> <b>Catalog Numbers</b>	Creatine Kinase C519-A, C519-B, C519-150, C519-440TM	<b>Emergency Telephone No.</b> CHEMTREC (800) 424-9300 International CHEMTREC (703) 527-3887
<b>Product Type</b>	Clinical Chemistry Reagent	
<b>Company Name</b> <b>Street Address</b> <b>City, State, Zip Code, Country</b>	Teco Diagnostics 1268 N. Lakeview Avenue Anaheim, CA 92807 USA	<b>Company Telephone No.</b> (800) 222-9880 or (714)463-1111 Monday - Friday 8:00-5:00 PT Fax No. (714) 463-1169
<b>Recommended Use:</b> For <i>in vitro</i> diagnostic use only. For professional use only.		
<b>Restrictions on Use:</b> Not for <i>in vivo</i> use.		

### Section 2 – Hazard(s) Identification

<b>Classification:</b> This material is not classified as hazardous according to the OSHA Hazard Communication Standard (29 CFR 1910.1200).
<b>Emergency Overview:</b> When the recommended instructions for use are followed, the product is not expected to produce significant adverse health effects. There are no known significant effects or critical hazards; however, appropriate safety precautions should still be taken. Avoid contact with eyes and skin.
<b>Acute health effects:</b> No known significant effects or critical hazards have been identified.
<b>Chronic health effects:</b> No known significant effects or critical hazards have been identified.
For additional information on toxicity, please refer to section 11.

### Section 3 – Composition/Information on Ingredients

Component	Type	Chemical Concentration or % (Based on dried weight at time of impregnation)	CAS#
Creatine Kinase Reagent	Mixture	20mM D-Glucose	50-99-7
		10mM Magnesium acetate tetrahydrate	16674-78-5
		50mM Adenosine-5'-Monophosphate (AMP)	4578-31-8
		20mM N-Acetylcysteine (NAC)	616-91-1
		30mM Creatine Phosphate	922-32-7
		2mM Adenosine-5'-Diphosphate (ADP-K)	70285-70-0
		2mM Oxidized Nicotinamide Adenine Dinucleotide Phosphate	53-84-9
		3000 UL Glucose-6-Phosphate Dehydrogenase	9001-40-5
		3000 UL Hexokinase	9001-51-8
		2mM EDTA	6381-92-6

### Section 4 – First Aid Measures

<b>Ingestion</b>	If victim is conscious and alert, wash out their mouth with water, and then give 2 to 4 cups of water. Never give anything by mouth to an unconscious person. Seek medical attention.
<b>Inhalation</b>	Move exposed person to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.
<b>Skin Contact</b>	Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing. Wash clothing before reuse. Get medical attention if irritation occurs.
<b>Eye Contact</b>	Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if irritation occurs.

### Section 5- Fire-fighting Measures

<b>Extinguishing Media</b> Suitable: Use water spray, foam, or dry chemical. Unsuitable: None known
<b>Specific Hazards</b> No known hazardous combustion products.
<b>Special protective equipment and precautions for fire-fighters</b> Wear self-contained breathing apparatus and appropriate protective clothing for firefighting.

### Section 6 – Accidental Release Measures

<b>Personal precautions, protective equipment and emergency procedures</b> Wear proper personal protective equipment (PPE) as indicated in section 8. Exercise appropriate precautions to avoid contact with skin or eyes and prevent inhalation.
<b>Methods and materials for containment and cleaning up</b> Vacuum or sweep material and place into a suitable waste container. Dispose of in accordance with federal, state, and local regulations.



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### Section 7 – Handling and Storage

#### Handling

Wear appropriate personal protective equipment (PPE) as indicated in section 8.  
Avoid contact with eyes, skin, and clothing. Avoid inhalation or ingestion.

#### Storage

Store at 2-8°C in the original container and protect from sunlight. Keep container closed when not in use.

### Section 8 – Exposure Controls / Personal Protection

**Components with workplace control parameters** The product contains no components with occupational exposure limit values.

**Engineering Controls** No special ventilation requirements. Good general ventilation is sufficient.

#### Personal Protective Equipment

<b>Respiratory Protection</b>	Respiratory protective equipment is not required where adequately ventilated.
<b>Hand Protection</b>	Wear chemical-resistant, impervious gloves
<b>Eye Protection</b>	Safety glasses with side shields recommended.
<b>Protective Clothing</b>	Wear a lab coat.
<b>Other protective equipment</b>	Ensure the eyewash station and/or safety shower/wash is located near the work area.

#### General Hygiene Measures

Handle in accordance with good industrial hygiene practice. After handling the product, remove gloves using proper glove removal technique (without touching outer surface of glove), and dispose gloves according to applicable laws and good laboratory practices. Wash hands thoroughly. Also wash hands before eating, smoking, using the lavatory, and at end of the work period.

### Section 9 – Physical and Chemical Properties

#### Appearance

<b>Odor</b>	Liquid reagent
<b>Odor threshold</b>	N/A
<b>pH</b>	N/A
<b>Melting point / freezing point</b>	N/A
<b>Initial boiling point and boiling range</b>	N/A
<b>Flash point</b>	N/A
<b>Evaporation rate</b>	N/A
<b>Flammability</b>	Not flammable
<b>Upper/lower flammability or explosion limits</b>	N/A
<b>Vapor pressure</b>	N/A
<b>Vapor density</b>	N/A
<b>Relative density</b>	N/A
<b>Solubility</b>	Soluble
<b>Partition coefficient: n-octanol/water</b>	N/A
<b>Auto-ignition Temperature</b>	N/A
<b>Decomposition Temperature</b>	N/A
<b>Viscosity</b>	N/A

### Section 10 – Stability and Reactivity

<b>Reactivity</b>	Reacts with human serum.
<b>Chemical stability</b>	Stable under recommended storage conditions as indicated in section 7.
<b>Possibility of hazardous reactions</b>	No information available
<b>Conditions to avoid</b>	Avoid high temperature
<b>Incompatible materials</b>	No information available
<b>Hazardous decomposition products</b>	No information available

### Section 11- Toxicological Information

<b>Route of Entry/Exposure</b>	Skin contact, eye contact
<b>Effects of acute exposure</b>	
<b>Skin contact</b>	May cause irritation.
<b>Eye contact</b>	May cause irritation.
<b>Ingestion</b>	May be harmful if ingested.
<b>Inhalation</b>	May cause irritation to mucous membranes and upper respiratory tract.

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**Effects of chronic exposure** No information available

**Toxicity:**

Component	Chemical	Acute Toxicity	Chronic Toxicity	Other Information
Creatine Kinase Reagent	D-Glucose	LD50 Oral – rat 25800 mg/kg	No information available	No information available
	N-Acetylcysteine (NAC)	LD50 Oral – rat 5050 mg/kg		
	Glucose-6-Phosphate Dehydrogenase	LD50 Oral – rat 17 gm/kg		

**Carcinogenicity**

IARC	No component present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH	No component present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP	No component present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA	No component present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

**Section 12 – Ecological Information**

<b>Ecotoxicity</b>	No information available	<b>Mobility in soil</b>	No information available
<b>Persistence and degradability</b>	No information available	<b>Other adverse effects</b>	No information available
<b>Bio-accumulative potential</b>	No information available	<b>Water hazard class</b>	No information available

**Section 13 – Disposal Considerations**

<b>Waste residues and methods of disposal</b>	This product has to be disposed in accordance with applicable regional, national and local laws and regulations. Surplus and non-recyclable components should be taken to a licensed waste disposal contractor for disposal.
<b>Contaminated Packaging</b>	Waste packaging should be recycled; however, since empty containers may retain some product residues, they should be taken to an approved waste handling site or given to a licensed waste disposal contractor for recycling or disposal, if recycling is not possible.

**Section 14 – Transport Information**

<b>UN Number</b>	None. Not regulated.
<b>UN Proper shipping name</b>	None. Not regulated.
<b>Transport hazard class</b>	Not classified as hazardous. Not regulated.
<b>Packing group</b>	Not applicable
<b>Environmental hazard</b>	No information available
<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not applicable
<b>DOT (USA)</b>	Not dangerous goods. Non-hazardous for transport.
<b>IMDG</b>	Not dangerous goods. Non-hazardous for maritime transport.
<b>IATA</b>	Not dangerous goods. Non-hazardous for air transport.
<b>Special precautions</b>	None

**Section 15 – Regulatory Information**

<b>United States</b>		
<b>HCS Classification</b>	Not regulated	
<b>U.S Federal Regulations</b>		
TSCA 8(a) CDR Exempt/Partial exemption: Not determined		
United States inventory TSCA 8(b): Not determined		
SARA 302: No components are subject to the reporting requirements of SARA Title III, section 302		
SARA 304 Extremely Hazardous Substances Reportable Quantity: The product does not contain any components with a section 304 EHS RQ.		
SARA 311/312 Hazards Identification: Not regulated		
Clean Water Act (CWA) 307: This product does not contain any toxic pollutants listed under the U.S. Clean Water Act section 307.		
Clean Water Act (CWA) 311: This product does not contain any hazardous substances listed under the U.S. Clean Water Act section 311.		
Clean Air Act (CAA) 112 accidental release prevention: No products were found		
<b>U.S. State Regulations</b>	<b>Component</b>	<b>CAS No.</b>
Massachusetts	N/A	N/A
<b>Right to Know:</b>		
Pennsylvania	Creatine Phosphate	922-32-7
<b>Right to Know:</b>	Adenosine-5'-Monophosphate	4578-31-8
	Nicotinamide Adenine Dinucleotide	53-84-9
New Jersey	Creatine Phosphate	922-32-7



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<b>Right to Know:</b>	Adenosine-5'-Monophosphate Nicotinamide Adenine Dinucleotide	4578-31-8 53-84-9
<b>California Prop. 65</b>	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.	N/A
<b>Canada WHMIS:</b> Uncontrolled: Glucose-6-Phosphate Dehydrogenase		
<b>Section 16 – Other Information</b>		
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.		
N/A = Not Applicable or Not Available		
Date of SDS Preparation: 12/20/2016		