

# Material Safety Data Sheet

## CK - NAC

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** CK (NAC) Reagent Set

**Catalogue Numbers:** 1380-200, 1380-500

**Use:** This reagent is intended for the in vitro quantitative determination of CK (ATP:Creatine N-phosphotransferase, EC 2.7.3.2) in human serum on both manual and automated systems.

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#### Contact Point

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Quality Assurance Manager:

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Mon – Fri 9:00am to 5:00pm

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##### U.S.A

Chemtel

24 Hour Emergency Assistance

1-800-255-3924

813-248-0585

### 2. HAZARD IDENTIFICATION

Not Classified as hazardous according to the ASCC/NOHSC/EU criteria

**Hazard Classification:** NON-HAZARDOUS SUBSTANCE, NON DANGEROUS GOODS.

**Hazard Category:** None allocated

#### RISK PHRASES

None allocated

#### SAFETY PHRASES

S22 Do not breathe dust.

**Poison Schedule:** None allocated [Aust].

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE NAME	Proportion	CAS Number
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All ingredients in this product are not hazardous according to the ASCC/NOHSC/EU criteria.

### 4. FIRST AID MEASURES

**Swallowed:** If swallowed, **DO NOT** induce vomiting. If conscious, give 1 to 2 glasses of water to drink. Seek immediate medical assistance.

**Eye:** If material is splashed into eyes, immediately, flush with plenty of water for 15 minutes, ensuring eye lids are held open. If irritation persists transport to hospital or doctor.

**Skin:** If material is splashed onto the skin, remove any contaminated clothing and wash skin thoroughly with soap and water. If irritation persists transport to hospital or doctor.

**Inhaled:** Move victim to fresh air. Apply resuscitation if victim is not breathing.

**First Aid Facilities:** Eye wash fountain, safety shower and normal wash room facilities.

**Advice to Doctor:** Treat symptomatically.

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## 4. FIRST AID MEASURES

In case of poisoning, contact Poisons Information Centre

**In Australia call Tel: 131126**

**In New Zealand Tel: 034747000**

## 5. FIRE-FIGHTING MEASURES

### Fire/Explosion Hazard

If safe to do so, move undamaged containers from fire area.

**Hazardous Decomposition Products:** Decomposes on heating emitting noxious smoke.

**Fire Fighting Procedures:** Fire fighters to wear Self-contained breathing apparatus (SCBA) in confined spaces, in oxygen deficient atmospheres or if exposed to products of decomposition. Full protective clothing is also recommended.

**Extinguishing Media:** Use extinguishing media suitable for surrounding fire situation.

**Hazchem Code:** None allocated

### Flammability

This material is not a combustible or flammable solid.

## 6. ACCIDENTAL RELEASE MEASURES

### Emergency Procedures:

Avoid generating dusts. Ventilate area. If possible wet area down to prevent high dust levels. Wear protective equipment to prevent skin and eye contact, as outlined under personal protection in this MSDS.

### Methods and Materials for Containment and Clean Up Procedures:

Throw diatomaceous earth or other inert material onto spill, then shovel up with non-sparking shovel and seal in properly labeled containers for disposal. If available, use dustless methods, such as a HEPA vacuum and filter.

## 7. HANDLING AND STORAGE

### Precautions for Safe Handling:

Do not swallow. Provide adequate ventilation. Avoid generating dusts.

### Conditions for Safe Storage:

Store in a cool place and out of direct sunlight. Store away from oxidizing agents. Keep containers closed, when not using the product. Store at 2-8°C and the reagent will be stable until the expiry date stated on the bottle and kit box labels. Store in original packaging, as approved by manufacturer.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Standards

No exposure standards are available for this product, however, the nature of the product is a dust therefore it is recommended that an exposure standard of 10 mg/m<sup>3</sup> for an eight hour exposure based upon Nuisance dust.

### Engineering Controls

Maintain adequate ventilation at all times. In most circumstances natural ventilation systems are adequate.

### Personal Protection Equipment

**GLOVES:** Not normally required, however, for people with sensitive skins the use of neoprene or nitrile is recommended.

**EYES:** Spectacles with side shields to protect eyes.

**RESPIRATORY PROTECTION:** Avoid breathing of dusts. The use of a respirator is not normally required, however, if high dust levels are present, then the use of a suitable dust mask or half-face respirator fitted with a P1 filter is recommended. All respirators must comply with AS/NZS 1715 and AS/NZS 1716.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	White to off white powder with no odour.
<b>Boiling Point:</b>	Not available.
<b>Freezing Point:</b>	Not available.
<b>Vapour Pressure:</b>	Not available.
<b>Specific Gravity:</b>	Not available.
<b>Flash Point:</b>	Not applicable.
<b>Flammability Limits:</b>	Not applicable.
<b>Solubility in Water:</b>	Completely miscible.

#### Other Properties

**pH:** 6.35 - 6.65 @ 19-22°C

### 10. STABILITY AND REACTIVITY

**Chemical Stability:** Stable under normal conditions of use.

**Conditions to Avoid:** Generation of high dust levels and incompatibles.

**Incompatible Materials:** Strong oxidizing agents.

**Hazardous Decomposition Products:** Decomposes on heating emitting noxious smoke.

**Hazardous Reactions:** Will not occur.

### 11. TOXICOLOGICAL INFORMATION

There is no toxicological information available for this product, the following is expected:

Oral LD50(rat): > 2,000 mg/kg

Dermal LD50(rabbit): > 2,000 mg/kg

#### Acute Health Effects

**Swallowed:** Swallowing large quantities may cause irritation to mouth, throat and stomach, which may lead to nausea, vomiting and diarrhoea.

**Eye:** May cause mechanical irritation to the eyes, with effects including: tearing, pain, stinging and blurred vision. These effects are anticipated to be of a transient (short acting) nature and no long term injury is envisaged.

**Skin:** May cause irritation to the skin.

**Inhaled:** May cause irritation to the mouth, throat and upper respiratory system.

**Chronic:** Prolonged or repeated inhalation of the dust may cause sneezing, coughing and mucous buildup.

### 12. ECOLOGICAL INFORMATION

No ecological information available for this product.

**Ecotoxicity:** No information for product.

**Mobility:** No information for product.

**Persistence / Degradability:** No information for product.

**Chemical Fate Information:** No information available.

Do not dispose of large quantities to waterways, drains or sewers.

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## 13. DISPOSAL CONSIDERATIONS

### Methods of Disposal:

Refer to appropriate authority in your State. Dispose of material through a licensed waste contractor.

### Packaging:

Containers of this material may retain product residues. Handle contaminated packaging in the same way as the substance itself, by disposing in accordance with all applicable federal, state and local environmental and hazardous waste regulations.

## 14. TRANSPORT INFORMATION

**UN Number:** None allocated

**Proper Shipping Name:** NONE ALLOCATED

**Dangerous Goods Class:** None allocated

**Subsidiary risk:** None allocated

**Packing Group:** None allocated

**Hazchem Code:** None allocated

**Label:** None allocated

### Road and Rail Transport:

Not classified as a Dangerous Good according to the United Nations Recommendations for the Transport of Dangerous Goods and Globally Harmonized System for the classification and labelling of Chemicals.

### Air Transport:

Not classified as a Dangerous Good according to the International Civil Aviation Organization (ICAO) and International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

### Marine Transport:

Not classified as a Dangerous Good according to the International Maritime Organization Rules (Maritime Dangerous Goods Code - IMDG Code) for transport by sea.

## 15. REGULATORY INFORMATION

**Poison Schedule:** None allocated [Aust].

### Inventory Status:

Australia (AICS)	Y
United States (TSCA)	Y
Canada (DSL)	Y
Europe (EINECS/ELINCS)	Y

Y = all ingredients are on the inventory.

If approved for European Communities use, this product is regulated under the In Vitro Diagnostic Medical Devices Directive (98/79/EC).

## 16. OTHER INFORMATION

**Issue date:** September, 2006

### Key Legend Information:

NOHSC - National Occupational Health & Safety Commission {Formerly Worksafe}[Aust]

ASCC - Australian Safety and Compensation Council [Aust]

SUSDP - Standard for the Uniform Scheduling of Drugs and Poisons [Aust]

TWA - Time Weighted Average [Int]

STEL - Short Term Exposure Limit [Int]

AICS - Australian Inventory of Chemical Substances

Dangerous Goods - Initial Emergency Response Guide (SAA/SNZ HB76:1997) [Aust]

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## 16. OTHER INFORMATION

EPA - Environmental Protection Agency [Int]  
NIOSH - National Institute for Occupational Safety and Health [US]  
TSCA - Toxic Substances Control Act [US]  
OSHA - Occupational Safety and Health Administration [US]  
AS/NZS 1715 - Selection, use and maintenance of respiratory protective devices. [Aust/NZ]  
AS/NZS 1716 - Respiratory protective devices. [Aust/NZ]  
Hazchem Code - Fire fighters designation [Aust]  
IATA - International Aviation Transport Authority [Int]  
ICAO - International Civil Aviation Organization [Int]  
IMO - International Maritime Organisation. [Int]  
IMDG - International Maritime Dangerous Goods [Int]  
United Nations Recommendations for the Transport of Dangerous Goods and Globally Harmonized System for the classification and labelling of Chemicals. [Int]  
EINECS - European Inventory of Existing Commercial Chemical Substances. [Int]  
ELINCS - European List of Notified Chemical Substances. [Int]  
EU - European Union [Int]

**EU Directives:** The classification criteria used, are adopted from the European Community's (EC) legislation for classifying dangerous substances. The criteria are taken from:

EC Council Directive 67/548/EEC  
EC Council Directive 1999/45/EC

[Aust/NZ] = Australian New Zealand  
[Int] = International  
[US] = United States of America

### **Principal References:**

Information supplied by manufacturer, reference sources including the public domain.

### **Disclaimer**

This MSDS summarises our best knowledge of the health and safety hazard information available on the product and the measures to be used to handle and use the product safely. Each user should read this MSDS and consider the information in connection with the way the product is intended to be handled or used. Responsibilities of the supplier associated with this product are outlined in our standard terms and conditions, a copy of which is sent to customers and is available on request.

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**END OF MSDS**