

SECTION 1: Identification of the substance/mixture and of the company

1.1 Product identifier

- Product Name: **CK-NAC (CREATININE KINASE)**

The sets are designed for Health Service laboratories for determination of creatinase concentration in serum and plasma. The mixture is intended for professional use.

1.3 Details of the supplier of the safety data sheet

- Name of Manufacturer: Arena BioScien, SEA
- Address of Manufacturer: Block 5, Street 9 Ismailia free zone. Ismailia- Egypt
- Telephone: +202 21813500/ +201113102057
- Email: admin@arenabioscientific.com

SECTION 2 Hazards identification

Classification: NONE

Negative health effects: NONE

Negative environmental effects: No specific information available

SECTION 3 Composition/information on ingredients

CK-NAC R1 REAGENT

Chemical Name	Concentration (%)	CAS	N.CE	Classification
Imidazole	0.085	288-32-4	206-019-2	Aqueous solution
D-Glucose	0.45	50-99-7	200-075-1	Aqueous solution
Hexokinase	<0.01			Aqueous solution

CK-NAC R2 REAGENT

Chemical Name	Concentration (%)	CAS	N.CE	Classification
Creatine phosphate	6.7	7647-14-5		Aqueous solution
ADP(Adenosinedihydrogenphosphate)	<0.1	50-99-7		Aqueous solution

SECTION 4 First aid measures

Inhalation: No special requirements.

Skin contact: Wash skin with water.

Eye contact: Immediately wash eyes, also under the eyelids, with water for at least 15 minutes.

Ingestion: If patient is conscious, rinse out mouth and throat thoroughly with water. Have the patient drink extensive water. Get medical attention if feeling unwell.

SECTION 5 Fire-fighting measures

Extinguishing media: Use whatever is required for the surrounding area.

Specific risks: None determined.

Special protective equipment: No special requirements.

Additional recommendations: None.

SECTION 6 Accidental release measures

Personal precautions: Wear a lab coat, protective gloves and safety goggles.

Environmental precautions: Prevent from getting into sewage, water, ground.

Methods for cleaning/absorption: Dilute spill with water. Take up with absorbent material and place in a suitable container. Dispose of according to local regulations. Clean affected area.

SECTION 7 Handling and storage

7.1. Handling

Technical measures: No special requirements.

Precautions: The usual laboratory precautions should be observed.

Handling recommendations: Wear a lab coat, protective gloves and safety goggles.

7.2. Storage

Technical measures: No special requirements.

Storage conditions: Store protected from light, in tightly closed containers, at 2-8°C. Do not freeze the reagents.

Incompatible materials: None determined.

Packaging materials: No special requirements.

SECTION 8 Exposure controls/personal protection

8.1 Control parameters

- There are no recommended or established controls for this product.

8.2 Exposure controls

- Eyewash bottles should be available.
- Engineering controls should be provided to prevent the need for ventilation.
- No respiratory protection is needed if ventilation/extraction is adequate, otherwise wear approved dust mask, NIOSH N95 (US) or type FFP1 (EN143) dust masks.
- Wear protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374.
- Wear safety glasses approved to standard for ANSI Z87 or EN 166.

SECTION 8 Exposure controls/personal protection (continued...)

- Wear suitable protective clothing in accordance with good chemical hygiene practices.



Gloves



Safety
Glasses



Lab Coat

SECTION 9 Physical and chemical properties

Physical state: Liquid, aqueous clear solution

Autoflammability: Not determined

Colour: Colourless

Explosive properties: Not determined

Odour:

REAGENT 1 : Slight smell (Thiol)

REAGENT 2 : No characteristic odour

Oxidizing properties: Not determined

pH:

REAGENT 1 : 6.0 (at 25°C)

REAGENT 2 : 9.0 (at 25°C)

Vapour pressure: Not determined

Boiling point: Not determined

Relative density:

REAGENT 1 : 1.0089 g/ml (at 20°C)

REAGENT 2 : 1.0388 g/ml (at 20°C)
Melting point: Not determined
Solubility: Not determined
Flashing point: Not determined
Partition coefficient: Not determined
Flammability (solid, gaz): Not determined
Other data: Not determined

SECTION 10 Stability and reactivity

Conditions to avoid: None known.
Materials to avoid: None known.
Hazardous decomposition products: None known.
Other data: None.

SECTION 11 Toxicological information

Acute toxicity: Not determined.
Chronic toxicity: Not determined.
Inhalation: Not determined.
Skin contact: Not determined.
Eye contact: Not determined.
Ingestion: Not determined.
Other data: Quantitative data about the toxicity of the product are not available. Dangerous properties cannot be excluded. However, risks are not to be expected when the product is handled by qualified and authorized personnel with the necessary precautions for chemicals/diagnostic reagents.

SECTION 12 Ecological information

Mobility: Not determined.
Degradability: Not determined.
Bioaccumulative potential: Not determined.
Ecotoxicology: Not determined.
Other hazardous effects: Quantitative data on ecological effects of the product are not available.

SECTION 13 Disposal considerations

Surplus or waste (residues): These reagents contain less than 0.1% sodium azide as a preservative. As sodium azide may react with lead and copper, to form explosive metal azides, these reagents should be disposed of by flushing with copious amounts of water. The products must be disposed of as a laboratory chemical according to local regulations.
Contaminated packaging: Type of primary container: plastic cassette composed of polyethylene high density. Packaging must be disposed of according to local regulations.

SECTION 14 Transport information

- 14.1 UN Number
 - Not classified as hazardous for transport
- 14.2 UN Proper Shipping Name
 - Not applicable
- 14.3 Transport hazard class(es)
 - Not applicable
- 14.4 Packing group
 - Not applicable
- 14.5 Environmental hazards
 - Not Classified
- 14.6 Special precautions for user
 - Not Classified

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

- Not Classified

14.8 Domestic Surface Transport (US DOT)

- Proper Shipping Name: Not applicable

- DOT UN No.: Not applicable

- DOT Hazard Class: Not applicable

SECTION 14 Transport information (continued...)

- DOT Packing Group: Not applicable

14.9 International Road/Rail (ADR/RID)

- Proper Shipping Name: Not applicable

- ADR UN No.: Not applicable

- ADR Hazard Class: Not applicable

- ADR Packing Group: Not applicable

- Tunnel Code: Not applicable

14.10 Ocean/Sea (IMO/IMDG)

- Proper Shipping Name: Not applicable

- IMDG UN No.: Not applicable

- IMDG Hazard Class: Not applicable

- IMDG Packing Group: Not applicable

14.11 Air (ICAO/IATA)

- Proper Shipping Name: Not applicable

- ICAO Un No.: Not applicable

- ICAO Hazard Class: Not applicable

- ICAO Packing Group: Not applicable

SECTION 15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- This Safety Data Sheet is provided in compliance with the EC Directive 1907/2006- 453/2010, WHMIS 2015 requirements as specified in the Hazardous Products Act (HPA) and the Hazardous Products Regulations (HPR), and with the OSHA Hazard Communication Standard 29 CFR 1910.1200.

- Regulation (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) applies in Europe.

SECTION 16 Other information

Date of Preparation: September 2019

Revision: Rev. 0

Replaces: New issue

This document is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. Arena BioScien Manufacturers, SEA. Shall not be held liable for any damage resulting from handling or from contact with the above product. These suggestions should not be confused with state, municipal or insurance requirements, and constitute NO WARRANTY.