


## SAFETY DATA SHEET

### SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

<b>Product name</b>	Creatine Kinase Reagent
<b>Catalog number</b>	SA2011 and RX2011
<b>Product use</b>	For the quantitative determination of creatine kinase activity in serum and lithium heparin plasma.
<b>Company name</b>	Alfa Wassermann Diagnostic Technologies, LLC
<b>Company address</b>	4 Henderson Drive West Caldwell, New Jersey 07006
<b>Country</b>	USA
<b>Telephone number</b>	1-800-220-4488
<b>Fax number</b>	1-973-276-0383
<b>Email</b>	info@alfawassermannus.com
<b>Website</b>	www.AWDT.us
<b>Emergency telephone number</b>	Toll Free: 1-866-419-ALFA (2532)

### SECTION 2 – HAZARDS IDENTIFICATION

<b>Hazard classification</b>	<b>CK Buffer:</b> This product is not hazardous according to OSHA 29 CFR 1910.1200. <b>CK Substrate:</b> This product is considered hazardous according to OSHA 29 CFR 1910.1200.	
<b>GHS label elements</b>		
<b>Signal word</b>	<b>CK Substrate:</b> Danger	
<b>Potential health effects</b>		
<b>Routes of exposure</b>	Inhalation. Ingestion. Skin contact. Eye contact.	
<b>Other hazards</b>		
<b>Routes of exposure</b>	<b>CK Buffer</b>	<b>CK Substrate</b>
Eyes	Splashes may irritate and cause redness. May cause redness, irritation and dry skin.	May cause eye irritation.
Skin	Sodium azide may be absorbed through the skin and result in systemic effects.	May cause skin irritation.
Inhalation	Mists/vapors may irritate throat and respiratory system and cause coughing.	Vapors and mist may irritate throat and respiratory system and cause coughing.
Ingestion	May cause discomfort if swallowed.	May cause discomfort if swallowed.
<b>Chronic effects</b>	No data available.	No data available.

SECTION 3 – COMPOSITION/ INFORMATION ON INGREDIENTS			
Reagent	Hazardous Ingredient	CAS Number	%
CK Buffer	Sodium Azide	26628-22-8	<0.1
CK Substrate	Imidazole	288-32-4	<2

SECTION 4 – FIRST AID MEASURES	
<b>Skin contact</b>	Remove contaminated clothing and wash with soap and plenty of water. Seek medical attention.
<b>Eye contact</b>	Immediately flush with plenty of water or eye wash solution for up to ten minutes. Seek medical attention.
<b>Inhalation</b>	Remove victim to fresh air. Seek medical attention.
<b>Ingestion</b>	Wash out mouth thoroughly with water. Seek medical attention.

SECTION 5 – FIRE-FIGHTING MEASURES	
<b>Flammable</b>	No
<b>Hazardous combustion products</b>	<b>CK Buffer:</b> Fire will generate toxic and irritating gases. Carbon monoxide and carbon dioxide. Nitrogen oxides. <b>CK Substrate:</b> Carbon monoxide and carbon dioxide.
<b>Extinguishing media</b>	Extinguish with water spray, carbon dioxide, dry chemical or material appropriate for the surrounding fire.
<b>Protection of firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Specific hazards arising from the chemical</b>	When heated to decomposition, may produce hydrazoic acid fumes.
<b>Firefighting instructions</b>	Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6 – ACCIDENTAL RELEASE MEASURES	
<b>Personal precautions</b>	Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing gloves appropriate protective clothing. Ensure adequate ventilation and treat material as you would hazardous material.
<b>Environmental precautions</b>	Do not allow to enter drains, sewers or watercourses. The mixture contains a small amount of sodium azide which can react with copper, lead, brass or solder in plumbing systems and form potentially explosive metal azides.
<b>Methods for containment and cleaning up</b>	Absorb spill with vermiculite or other inert material. Place in suitable container for prompt disposal. Label the container as potentially hazardous. Spill areas can be decontaminated with 0.5% sodium hypochlorite, e.g., a fresh 1:10 dilution of common household bleach. Dispose of waste in accordance with all applicable federal, state, local and provincial environmental regulations.

SECTION 7 – HANDLING AND STORAGE	
<b>Handling</b>	Wear safety glasses, disposable gloves and protective clothing. Wash thoroughly after handling. Handle and open container with care.
<b>Storage</b>	Store at 2-8°C.

**SECTION 8 – EXPOSURE CONTROL/ PERSONAL PROTECTION****Exposure limits****CK Buffer****Components**

Sodium azide (CAS 26628-22-8)) Can be absorbed through the skin

**Personal protective equipment** ☒ Gloves ☐ Respirator ☒ Eye ☐ Footwear ☒ Clothing ☐ Other**SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

Properties	CK Buffer	CK Substrate
Physical state	Liquid.	Liquid.
Color	Clear, colorless.	Clear, colorless.
Odor	Not available.	Odorless.
Odor threshold	Not available.	Not available.
pH	6	9 at 25°C.
Vapor pressure	Not available.	Not available.
Vapor density	Not available.	Not available.
Boiling point	Not available.	Not available.
Melting point/ Freezing point	Not available.	Not available.
Solubility in water	Soluble	Soluble
Density	Not available.	1.04 g/ml (20°C)

**SECTION 10 – STABILITY AND REACTIVITY**

	CK Buffer	CK Substrate
<b>Chemical stability</b>	Stable under normal conditions.	Stable under normal conditions.
<b>Incompatible materials</b>	Strong oxidizing agents. Acids. Heavy metals.	Acids. Alkalies.
<b>Hazardous decomposition products</b>	None.	Nitrogen oxides. Phosphorus oxides. Carbon monoxide. Carbon dioxide.
<b>Conditions to avoid</b>	Protect against direct sunlight.	None.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.	Contains sodium azide which may react with heavy metals to form explosive substances.

**SECTION 11 – TOXICOLOGICAL INFORMATION**

<b>Sensitization</b>	No data available.
<b>Acute effects</b>	May be harmful if swallowed.
<b>Local effects</b>	May cause skin and eye irritation.
<b>Chronic effects</b>	No data available.
<b>Carcinogenicity</b>	Not classified.
<b>Reproductive effects</b>	<b>CK Buffer:</b> Not classified. <b>CK Substrate:</b> May damage fertility or the unborn child.

## SECTION 12 – ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
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## SECTION 13 – DISPOSAL CONSIDERATIONS

<b>Waste disposal</b>	Contaminated instruments and surfaces should be disinfected in accordance with your employer's chemical-specific and universal/ standard precautions. This preparation contains a small amount of sodium azide which can react with copper, lead, brass or solder in plumbing systems and form potentially explosive metal azides. If preparation enters drain, flush with a large volume of water to prevent azide build-up.  Dispose in accordance with all applicable regulations.
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## SECTION 14 – TRANSPORT INFORMATION

<b>DOT/ IATA/ IMDG/ TDG</b>	Not regulated as a hazardous material.
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## SECTION 15 – REGULATORY INFORMATION

<b>US federal regulations</b>	<b>CK Buffer:</b> This product is not hazardous as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. <b>CK Substrate:</b> This product is hazardous as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
<b>Hazard symbol</b>	Danger.
<b>Warnings</b>	Not applicable.

## SECTION 16 – OTHER INFORMATION

<b>Supplier's notes</b>	This safety data sheet has been complied, controlled and approved in accordance with the regulations in force. It is the user's responsibility to determine the suitability of this information for the adoption of necessary safety precautions. We reserve the right to revise the Safety Data Sheet periodically as new information becomes available.
<b>Recommended restrictions on use</b>	For in vitro diagnostic use only.
<b>Disclaimer of expressed and implied warranties</b>	Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representation as to the accuracy or completeness of the information contained herein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purposes.
<b>Preparation information</b>	P/N 701197-87 Rev B 7/14

**END OF SDS**