

SAFETY DATA SHEET

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

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

SECTION 2 – HAZARDS IDENTIFICATION

Hazard classification	CK Buffer: This product is not hazardous according to OSHA 29 CFR 1910.1200. CK Substrate: This product is considered hazardous according to OSHA 29 CFR 1910.1200.	
GHS label elements		
Signal word	CK Substrate: Danger	
Potential health effects		
Routes of exposure	Inhalation. Ingestion. Skin contact. Eye contact.	
Other hazards		
Routes of exposure	CK Buffer	CK Substrate
Eyes	Splashes may irritate and cause redness.	May cause eye irritation.
Skin	May cause redness, irritation and dry skin.	
Inhalation	Sodium azide may be absorbed through the skin and result in systemic effects.	May cause skin irritation.
	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.
Chronic effects	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	
Skin contact	Remove contaminated clothing and wash with soap and plenty of water. Seek medical attention.
Eye contact	Immediately flush with plenty of water or eye wash solution for up to ten minutes. Seek medical attention.
Inhalation	Remove victim to fresh air. Seek medical attention.
Ingestion	Wash out mouth thoroughly with water. Seek medical attention.

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

SECTION 6 – ACCIDENTAL RELEASE MEASURES	
Personal precautions	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.
Environmental precautions	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.
Methods for containment and cleaning up	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	
Handling	Wear safety glasses, disposable gloves and protective clothing. Wash thoroughly after handling. Handle and open container with care.
Storage	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
Chemical stability	Stable under normal conditions.	Stable under normal conditions.
Incompatible materials	Strong oxidizing agents. Acids. Heavy metals.	Acids. Alkalies.
Hazardous decomposition products	None.	Nitrogen oxides. Phosphorus oxides. Carbon monoxide. Carbon dioxide.
Conditions to avoid	Protect against direct sunlight.	None.
Possibility of hazardous reactions	Hazardous polymerization does not occur.	Contains sodium azide which may react with heavy metals to form explosive substances.

SECTION 11 – TOXICOLOGICAL INFORMATION

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

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity	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

Waste disposal	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

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

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

SECTION 16 – OTHER INFORMATION

Supplier's notes	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.
Recommended restrictions on use	For in vitro diagnostic use only.
Disclaimer of expressed and implied warranties	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.
Preparation information	P/N 701197-87 Rev B 7/14

END OF SDS