

**SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**Product Name:** π Code Coupling Buffer Set  
*For research use only.*

**Manufacturer/Supplier:** PlexBio Co., Ltd.  
6F-1, No. 351 Yangguang Street, Neihu District, Taipei 114  
Taiwan, R.O.C.  
Tel: +886-2-2627-5878  
Fax: +886-2-2627-5979

**SECTION 2: COMPOSITION AND INFORMATION ON INGREDIENTS**

**Known Hazardous Components:** Sodium azide

**Molecular Weight:** 65.01 g/mol

**CAS-No.:** 26628-22-8

**Percent:** <0.1%

**SECTION 3: HAZARD IDENTIFICATION**

**Potential Acute Health Effects:**

**Eye Contact:** May cause eye irritation.

**Skin Contact:** May cause skin irritation.

**Inhalation:** May cause irritation of respiratory tract.

**Ingestion:** May be harmful if swallowed.

**Potential Chronic Health Effects:**

**Carcinogenic Effects:** Not available.

**Mutagenic Effects:** Not available.

**Reproduction Toxicity:** Not available.

**Sensitization:** Not available.

**HMIS Code:** (Health: 0) (Flammability: 0) (Reactivity: 0)

**NFPA Code:** (Health: 0) (Flammability: 0) (Reactivity: 0)

**SECTION 4: FIRST AID MEASURES**

**Eye Contact:** Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

**Skin Contact:** Wash with soap and water. Get medical attention if irritation develops.

**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Ingestion:** Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

**SECTION 5: FIRE AND EXPLOSION DATA**

**Suitable Extinguishing Media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special Protective Equipment for Firefighters:** Wear suitable protective clothing to prevent contact with skin and eyes and self-contained breathing apparatus.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Personal Precautions:** Use standard laboratory practices including proper personal protective equipment.



# MATERIAL SAFETY DATA SHEET

π Code Coupling Buffer Set

Rev. Date: 9/18/2017

**Methods for Cleaning Up:** Take up mechanically and collect in suitable container for disposal.

## SECTION 7: HANDLING AND STORAGE

**Precautions:** No special measures required.

**Storage:** Store according to product specifications.

## SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Engineering Controls:** Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

**Personal Protection:** Follow usual standard laboratory practices. Use appropriate chemical resistant gloves, appropriate safety glasses and wear protective work clothing.

**Exposure Limits:** Not available.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Component:</b>	Sodium azide		
<b>Form:</b>	crystalline.	<b>Vapor pressure:</b>	0.01 hPa (0.01 mmHg) at 20 °C (68 °F).
<b>Color:</b>	White.	<b>Density:</b>	1.850 g/cm <sup>3</sup> .
<b>pH:</b>	10 at 65 g/l at 25 °C (77 °F).	<b>Water solubility:</b>	65 g/l at 20 °C (68 °F) - completely soluble.
<b>Melting point/Freezing point:</b>	275 °C (527 °F).	<b>Partition coefficient:</b>	Not available.
<b>Boiling point:</b>	Not available.	<b>n-octanol/water</b>	
<b>Flash point:</b>	Not available.	<b>Relative vapour density:</b>	Not available.
<b>Ignition temperature:</b>	Not available.	<b>Odor:</b>	Not available.
<b>Autoignition temperature:</b>	Not available.	<b>Odor Threshold:</b>	Not available.
<b>Lower explosion limit:</b>	Not available.	<b>Evaporation rate:</b>	Not available.
<b>Upper explosion limit:</b>	Not available.		

## SECTION 10: STABILITY AND REACTIVITY DATA

<b>Stability:</b>	The product is stable under recommended shipping and storage conditions.
<b>Reactivity:</b>	The product is stable under recommended shipping and storage conditions.
<b>Conditions to Avoid:</b>	Excess heat and moisture.
<b>Materials to Avoid:</b>	Strong acids/alkalis, strong oxidizing/reducing agents.
<b>Hazardous Decomposition Products:</b>	Not available.
<b>Polymerization:</b>	Will not occur.

## SECTION 11: TOXICOLOGICAL INFORMATION

<b>Component:</b>	Sodium azide	
<b>Acute toxicity:</b>	Oral LD50	Rat - 27 mg/kg
	Inhalation C50	LC50 Inhalation - rat - 37 mg/m <sup>3</sup>
	Remarks	Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Eye: Other. Behavioral: Convulsions or effect on seizure threshold. Lungs, Thorax, or Respiration: Structural or functional change in trachea or bronchi.
	Dermal LD50	LD50 Dermal - rabbit - 20 mg/kg
<b>Other information on acute toxicity</b>	Not available.	
<b>Potential Acute Health Effects:</b>		



<b>Eye Contact:</b>	May cause eye irritation.
<b>Skin Contact:</b>	May cause skin irritation.
<b>Inhalation:</b>	May cause irritation of respiratory tract.
<b>Ingestion:</b>	May be harmful if swallowed.
<b>Potential Chronic Health Effects:</b>	
<b>Carcinogenic Effects:</b>	Not available.
<b>Mutagenic Effects:</b>	Not available.
<b>Reproduction Toxicity:</b>	Not available.
<b>Sensitization:</b>	Not available.

SECTION 12: ECOLOGICAL INFORMATION	
<b>Component:</b>	Sodium azide
<b>Toxicity.</b>	<p>Toxicity to fish LC50 - Lepomis macrochirus - 0.68 mg/l - 96.0 h</p> <p>Toxicity to daphnia and other aquatic invertebrates. EC50 - Daphnia pulex (Water flea) - 4.2 mg/l - 48 h</p>
<b>Persistence and degradability.</b>	Not available.
<b>Bioaccumulative potential.</b>	Not available.
<b>Mobility in soil.</b>	Not available.
<b>PBT and vPvB assessment.</b>	Not available.
<b>Other adverse effects.</b>	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life.

SECTION 13: DISPOSAL CONSIDERATIONS	
<b>Waste Disposal:</b>	Waste must be disposed of in accordance with federal, state and local environmental control regulations.

SECTION 14: TRANSPORT INFORMATION	
<b>DOT:</b>	This substance is considered non-hazardous for transport.
<b>IATA:</b>	This substance is considered non-hazardous for air transport.

SECTION 15: REGULATORY INFORMATION	
<b>SARA 302 Components</b>	
Sodium azide	CAS-No. 26628-22-8
<b>SARA 313 Components</b>	
Sodium azide	CAS-No. 26628-22-8
<b>SARA 311/312 Hazards</b>	
Acute Health Hazard, Chronic Health Hazard	
<b>Massachusetts Right To Know Components</b>	
Sodium azide	CAS-No. 26628-22-8
<b>Pennsylvania Right To Know Components</b>	
Sodium azide	CAS-No. 26628-22-8
<b>New Jersey Right To Know Components</b>	
Sodium azide	CAS-No. 26628-22-8
<b>California Prop. 65 Components</b>	



# MATERIAL SAFETY DATA SHEET

π Code Coupling Buffer Set

Rev. Date: 9/18/2017

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

## SECTION 16: OTHER INFORMATION

To the best of our knowledge, the information contained herein is accurate and complete. However, we can neither guarantee nor assume any liability whatsoever for the accuracy or completeness of the information contained in this MSDS. Final determination of suitability of any material is the sole responsibility of the user, as health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. All materials and mixtures may present unknown hazards and should be used with caution. No warranty is made, either expressed or implied.