# Safety Data Sheet



Revision Date: 2 March 2025

# Product Name: DetectX<sup>®</sup> BCA Colorimetric Detection Kit

Product Name		<b>Iorimetric Detection</b>	Kit	
Also Known as: Catalog Number	Catalog Number K	041-H1		
Ū				
/ Manufacturer Supplier	Arbor Assays			
	1143 Highland Dr,		elephone 734-	677-1774
	Ann Arbor, MI 481	08-5001		
	USA			
Recommended Use:	For Research Use	Only		
Section 2: Chemical	Component Info	rmation		
Section 2: Chemical List of Components	BSA Standard (C	C143-200UL)		
	BSA Standard (C BCA Reagent (C	C143-200UL) 144-16ML)		
	BSA Standard (C	C143-200UL) 144-16ML)		
List of Components	BSA Standard (C BCA Reagent (C BCA Enhancer (	C143-200UL) 144-16ML)		
List of Components	BSA Standard (C BCA Reagent (C BCA Enhancer (	C143-200UL) 144-16ML) C145-320UL)	Percent	SARA 313
List of Components Hazardous Ingredients <u>Chemical Name</u>	BSA Standard (C BCA Reagent (C BCA Enhancer ( CAS #	C143-200UL) 144-16ML) C145-320UL) <u>Kit Component</u>	<u>Percent</u> ≤ 0.09%	SARA 313 Yes
List of Components	BSA Standard (C BCA Reagent (C BCA Enhancer ( CAS #	C143-200UL) 144-16ML) C145-320UL) <u>Kit Component</u> C143-200UL	<u>Percent</u> ≤ 0.09%	<u>SARA 313</u> Yes
List of Components Hazardous Ingredients <u>Chemical Name</u>	BSA Standard (C BCA Reagent (C BCA Enhancer ( <u>CAS #</u> 26628-22-8	C143-200UL) 144-16ML) C145-320UL) <u>Kit Component</u>		
List of Components Hazardous Ingredients <u>Chemical Name</u> Sodium Azide	BSA Standard (C BCA Reagent (C BCA Enhancer ( <u>CAS #</u> 26628-22-8	C143-200UL) 144-16ML) C145-320UL) <u>Kit Component</u> C143-200UL (Standard)	≤ 0.09%	Yes

Section 3: Health Hazards		
Emergency Overview	It is recommended that personnel wear safety goggles, gloves and protective clothing at all times. As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical components of this kit and ensure prompt removal from skin, eye, and clothing.	
Sodium Azide	Harmful if inhaled, absorbed through skin or swallowed. Contact with acids liberates toxic gas. Irritating to eyes, respiratory system and skin. Harmful to aquatic organisms, may cause long-term adverse effects in aquatic environment. May react with lead and copper plumbing to form highly explosive metal azides.	
Sodium Carbonate	Harmful if inhaled. Contact with decomposition products may cause delayed symptoms. Irritating to eyes, respiratory system and skin.	
	Harmful if ingested. Irritating to eyes, respiratory system and skin. May cause allergic skin reaction once sensitized.	

Section 4: First Aid Measures		
Inhalation	If inhaled, remove to fresh air. Seek medical attention if any respiratory symptoms develop.	
Skin Contact	Rinse with copious amounts of water and wash thoroughly with soap and water for 15 minutes. If irritation or discomfort develops seek medical attention.	
Eye Contact	Rinse eyes with running water, checking for and removing contact lenses. Continue for at least 15 minutes. Seek medical attention.	
Ingestion	If swallowed, wash out mouth with water if person is conscious. Do not induce vomiting. Seek medical attention.	

Section 5: Fire Fighting Measures			
Characteristic	C143-200UL <u>(Sodium Azide,</u> <u>≤ 0.09%)</u>	C144-16ML <u>(Sodium Carbonate,</u> <u>≥ 1%)</u>	C145-320UL ( <u>Copper Sulfate</u> <u>Pentahydrate</u> , ≥ 1%)
Flash Point	N/A	N/A	N/A
Explosion Limits	N/A	N/A	N/A
Auto-ignition Temp	N/A	N/A	N/A
Flammability	N/A	N/A	N/A
Extinguishing Media	Suitable: Carbon Diox	ide, dry chemical powder,	or appropriate foam.
Firefighting		Wear self-contained b revent contact with skin a	<b>U</b>

# Section 6: Accidental Release Measures

Cleanup Procedures Wear appropriate protective clothing, Contain spill to prevent migration. Absorb spill with inert material, place in sealed container and hold for appropriate disposal.

Waste Disposal Dispose of in accordance with federal, state, and local regulations.

# Section 7: Handling and Storage

Handling Avoid getting components of this kit on you or in you. Always wear appropriate protective clothing. Always wash hands and other exposed areas thoroughly after using this kit. Do not eat or drink while using this kit. Qualified and experienced professionals should only handle this kit.

Storage Store according to the package insert instructions.

Section 8: Exposure Controls and Personal Protection		
Engineering Controls	No special engineering controls are required when working with this kit. Use with adequate ventilation.	
Protective Equipment	Safety glasses are recommended to prevent eye contact. Chemical resistant gloves and a lab coat should be worn to prevent skin contact.	

# Section 9: Physical and Chemical Properties

	C143-200UL	C144-16ML	C145-320UL
<u>Characteristic</u>	<u>(Sodium Azide,</u>	<u>(Sodium Carbonate,</u>	(Copper Sulfate
	<u>≤ 0.09%)</u>	<u>≥ 1%)</u>	<u>Pentahydrate</u> , ≥ 1%)
Appearance	Clear, colorless liquid	Clear, colorless liquid	Clear, blue colored
	-	-	liquid
Odor	Slight	None	None
Boiling Point	N/A	1,633°C	150°C
Melting Point	N/A	851°C	110°C
Density	N/A	2.54	2.284
Vapor Pressure	N/A	N/A	7.3mm Hg @ 25°C
Solubility in Water	Complete	Complete	Complete
pH	N/A	Alkaline	N/A

# Section 10: Stability and Reactivity

Stability	This material is stable until the expiration date on the kit if stored as
	directed.
Conditions to Avoid	Heat, incompatibles
Incompatibles	Strong oxidizing agents or acids. Sodium azide may react with lead and copper plumbing.

# Section 11: Toxicological Information

Route of Exposure	
Skin Contact	May cause skin irritation.
Skin Absorption	May be harmful if absorbed through the skin.
Eye Contact	May cause eye irritation.
Inhalation	May be irritating to mucous membranes and upper respiratory tract.
	May be harmful if inhaled.
Ingestion	Harmful if swallowed.
Symptoms of Exposure	To the best of our knowledge, the chemical, physical, and
	toxicological properties have not been thoroughly investigated.

# Section 12: Ecological Information

No data is available.

# Section 13: Disposal Considerations

Dispose of waste materials, unused components and contaminated packaging in compliance with country, state, district and local regulations. If unsure of the applicable requirements, contact the authorities for information.

Section 14: Transport Information		
U.S. and Canadian Transportation;	DOT	
Proper Shipping Name	Chemical Kits	
UN Identification Number	3316	
Class and Description	9, Miscellaneous	
Packing Group	N/A	
Hazard Label	Class 9	
International Air Transportation (IA	TA)	

Proper Shipping NameChemical KitsUN Identification Number3316Class and Description9, MiscellaneousPacking GroupIIIHazard LabelClass 9

#### Section 15: Regulatory Information

Product related information

The product is not subject to classification according to the sources of literature known to us.

Observe general safety regulations when handling chemicals.

Safety Statements

Avoid release to the environment.

Risk Statements

Contains human blood. Harmful if swallowed. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

U.S. Regulatory Information

Sara Listed: Yes, Sodium Azide (CAS# 26628-22-8) and Copper Sulfate (CAS# 7758-99-8) contained in this product are subject to SARA 313 Reporting requirements.

#### Section 16: Other Information

**Disclaimer:** For Research Use Only. Not for diagnostic, therapeutic, or other uses.

**Further** The information contained in this document is accurate to the best of our knowledge and is provided in good faith. This document is intended only as a guide to the appropriate precautionary handling of the materials contained in this kit by properly trained personnel using this kit. Final determination or suitability of any materials is the sole responsibility of the user. ArborAssays shall not be held liable for any damage resulting from use or handling of this product.