

## Section 1: Product and Company Identification

Product Name **Blood Urea Nitrogen Detection Kit**  
 Catalog Number **SKT-213**  
 Company StressMarq Biosciences Inc.  
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## Section 2: Chemical Component Information

List of Components Plates (SKC-213A)  
 Urea Nitrogen Standard (SKC-213B)  
 Color Reagent A (SKC-213C)  
 Color Reagent B (SKC-213D)

### Hazardous Ingredients

<u>Chemical Name</u>	<u>CAS #</u>	<u>Kit Component</u>	<u>Percent</u>	<u>SARA 313</u>
Sulfuric Acid	7664-93-9	Color Reagent A & Color Reagent B	>1.0%	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.

Sulfuric Acid **Hazard statements(s):**  
 H314 - Causes severe skin burns and eye damage.  
**Precautionary statement(s):**  
 P260 - Do not breathe mist, vapours, spray.  
 P264 - Wash exposed skin thoroughly after handling.  
 P280 - Wear protective gloves, protective clothing, eye protection, face protection.  
 P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
 P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310 - Immediately call a POISON CENTER/doctor  
 P363 - Wash contaminated clothing before reuse.  
 P405 - Store locked up.  
 P501 - Dispose of contents/container to comply with local, state and federal regulations

## 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. Remove contaminated clothing and shoes. If irritation or discomfort develops seek medical attention.

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Eye Contact	Rinse eyes with running water, checking for and removing contact lenses. Continue for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Seek medical attention.
Ingestion	If swallowed, wash out mouth with water if person is conscious. Seek medical attention.

## Section 5: Fire Fighting Measures

Flash Point	N/A
Explosion Limits	N/A
Auto-ignition Temp	N/A
Flammability	N/A
Extinguishing Media	Suitable: Water spray. Carbon Dioxide, dry chemical powder, or appropriate foam.
Firefighting	Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
	Specific Hazard(s): Emits toxic fumes under fire conditions.

## Section 6: Accidental Release Measures

Cleanup Procedures	Wear appropriate protective clothing. Ventilate area. Contain spill to prevent migration. Absorb on sand or vermiculite, place in sealed container for disposal. Wash area of spill with soap and water.
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

Characteristic	Color Reagent A (Sulfuric Acid, > 1%)	Color Reagent B (Sulfuric Acid, > 1%)
Appearance	Clear, colorless liquid	Clear, colorless liquid
Odor	Pungent	Pungent
Boiling Point	100°C	100°C
Melting Point	0°C	0°C
Flash Point	N/A	N/A
Ignition temperature	N/A	N/A
Density	Essentially the same as water	Essentially the same as water
Vapor Pressure	Essentially the same as water	Essentially the same as water
Solubility in Water	Complete	Complete

pH	<1.0	<1.0
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## Section 10: Stability and Reactivity

Stability	This material is stable until the expiration date on the kit if stored as directed.
Incompatibles	Materials such as common metals, strong bases, cyanides, acetone, and nitric acid.
Hazardous	Sulfur oxides.
Decomposition	
Products:	

## 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	May be 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 (IATA)

Proper Shipping Name	Chemical Kits
UN Identification Number	3316
Class and Description	9, Miscellaneous
Packing Group	III
Hazard Label	Class 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.

# Material Safety Data Sheet

Blood Urea Nitrogen Detection Kit (Cat No. SKT-213)

## Safety Statements

Avoid release to the environment.

## Risk Statements

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

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage

H335 May cause respiratory irritation.

P280 Wear protective gloves, protective clothing, eye protection and face protection

R21/22 Harmful in contact with skin and if swallowed.

R36/37/38 Irritating to eyes, respiratory system and skin.

R36/38 Irritating to eyes and skin.

## U.S. Regulatory Information

Sara Listed: Yes, the sulfuric acid (CAS# 7664-93-9) contained in this product is subject to SARA 313 Reporting requirements.

## Section 16: Other Information

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

**Further Information:** 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. StressMarq Biosciences Inc. shall not be held liable for any damage resulting from use or handling of this product.

**Last Document** 13-Jan-2021

**Revision Date:**