

Section 1: Product and Company Identification

Product Name **Nitric Oxide Detection Kit**
 Catalog Number **SKT-212**
 Company StressMarq Biosciences Inc.
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Section 2: Chemical Component Information

List of Components Plates (SKC-212A)
 Nitrate Standard (SKC-212B)
 Nitrate Standard (SKC-212C)
 Assay Buffer (SKC-212D)
 NADH Concentrate (SKC-212E)
 Nitrate Reductase (SKC-212F)
 Enzyme Stabilization Buffer (SKC-212G)
 Color Reagent A (SKC-212H)
 Color Reagent B (SKC-212I)

Hazardous Ingredients

Chemical Name	CAS #	Kit Component	Percent	SARA 313
Hydrochloric Acid	7647-01-0	Color Reagent A & Color Reagent B	>1.0%	No

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. This kit may contain material of human or animal origin and should be considered as potentially capable of transmitting infectious diseases.

Hydrochloric Acid Harmful if inhaled, absorbed through skin or swallowed. Irritating to eyes, respiratory system and skin.

Hazard Statement(s):
 H314 Causes severe skin burns and eye damage.
 H335 May cause respiratory irritation.

Precautionary statement(s):
 P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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, Contain spill to prevent migration. Keep spilled materials wet with water. Do not allow to dry! Absorb on sand or vermiculite and place in closed container(s) for disposal. Ventilate area and wash spill site after pickup is complete.
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 (Hydrochloric Acid, > 1%)	Color Reagent B (Hydrochloric 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

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Solubility in Water	Complete	Complete
pH	0.1	0.1

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 cyanides, sulfides, sulfites, and formaldehyde.
Hazardous	Hydrogen chloride gas.
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 harmful if inhaled. May be irritating to respiratory tract.
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.

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.

Hazard Statement(s):

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

Precautionary statement(s):

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

U.S. Regulatory Information

Sara Listed: No, none of the materials 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 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.

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