

Material Safety Data Sheet

HSP27 ELISA Kit (Cat No. SKT-109)

Section 1: Product and Company Identification

Product Name **HSP27 Alpha ELISA Kit**
 Catalog Number **SKT-109**
 Company StressMarq Biosciences Inc.
 PO Box 55036 Cadboro Bay Victoria BC V8N4G0 CANADA
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Section 2: Chemical Component Information

List of All Components Anti-HSP27 Immunoassay Plate (SKC-109A)
 5X HSP27 Extraction Reagent (SKC-109B)
 Recombinant HSP27 Standard (SKC-109C)
 Standard and Sample Diluent (SKC-109D)
 10X Wash Buffer (SKC-109E)
 Anti- HSP27 Biotinylated Antibody Concentrate (SKC-109F)
 Anti- HSP27 Biotinylated Antibody Diluent (SKC-109G)
 Streptavidin: HRP Concentrate (SKC-109H)
 Streptavidin: HRP Diluent (SKC-109I)
 TMB Substrate (SKC-109J)
 Stop Solution (SKC-109K)

Hazardous Ingredients

Chemical Name	CAS#	Kit Component	Percent	SARA 313
ProClin® 200	10377-60-3 AND 55965-84-9 AND 3251-23-8	Plates, Standard, Monoclonal Antibody, Poly HRP Diluent, Sample and Standard Diluent, Antibody Diluent, Wash Buffer Concentrate	< 1.0% per component	NO
3,3',5,5'-tetramethylbenzidine (TMB)	54827-17-7	TMB Substrate	N/A	NO
Sulfuric Acid	7664-93-9	Stop Solution	<0.9	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.

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

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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

	Sulfuric Acid	TMB	ProClin® 200
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.	If inhaled, remove to fresh air.	If inhaled, remove to fresh air.
Skin Contact	Wash thoroughly with soap and water. Seek immediate medical attention.	Wash thoroughly with soap and water.	Remove contaminated clothing. Wash thoroughly with soap and water. Seek medical attention.
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. Cold water may be used. Get medical attention immediately.	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used.	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and seek immediate medical attention. Continue rinsing during transport to hospital. Cold water may be used.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.	Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Rinse mouth. Get medical attention if symptoms appear.	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Rinse mouth with water and seek medical attention.

Section 5: Fire Fighting Measures

Extinguishing Media	Suitable: Water spray, alcohol-resistant foam, carbon dioxide, or dry chemical. Fight larger fires with water spray or alcohol resistant foam.
Firefighting	Protective Equipment: Wear self-contained breathing apparatus if necessary. Do not inhale explosion gases or combustion gases. Wear fully protective suit.

Section 6: Accidental Release Measures

Cleanup Procedures	Wear appropriate protective clothing. Avoid breathing vapors, mist or gas. Contain spill to prevent migration. Wipe up spill, place in suitable, closed container for appropriate disposal. Wash area of spill with soap and water. Sulfuric Acid: Neutralize the residue with a dilute solution of sodium carbonate.
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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	Sulfuric Acid	TMB	ProClin® 200
Appearance	Clear, colorless liquid	Liquid	Light blue liquid
Odor	Odorless	Odorless	Not determined
Boiling Point	270 °C	Not determined	100°C
Melting Point	-35 °C	Not determined	-3°C
Flash Point	Not applicable	Not applicable	Not determined
Ignition temperature	Not determined	Not determined	Not determined
Vapor Pressure	Not determined	Not determined	Not determined
Solubility in Water	Complete	Not determined	Complete
pH	Acidic	N/A	1.7-3.7

Section 10: Stability and Reactivity

Stability This material is stable until the expiration date on the kit if stored as directed. Avoid strong oxidizing agents.

Conditions to Avoid Conditions to Avoid: Incompatible materials, excess heat, combustible material materials, organic materials, exposure to moist air or water, oxidizers, amines, bases. Always add the acid to water, never the reverse.

Incompatibles Reactive with oxidizing agents, reducing agents, combustible materials, organic materials, metals, acids, alkalis, moisture.

Section 11: Toxicological Information

Route of Exposure

Skin Contact Causes skin irritation and burns.

Skin Absorption 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

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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

Sulfuric Acid	TMB	ProClin® 200
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.	H302 Harmful if swallowed. 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.	H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. H411 Toxic to aquatic life P261 Avoid inhalation P264 Wash skin thoroughly after handling. P271 Use in a well-ventilated area. P272 Contaminated work clothing should not be allowed out of the workplace.

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		P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye and face protection P284 Wear respiratory protection R34/43/50 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.
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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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