



# Material Safety Data Sheet

HSP70 (Plant) ELISA Kit (Cat No. SKT-124)

## Section 1: Product and Company Identification

Product Name	<b>HSP70 (Plant) ELISA Kit</b>
Catalog Number	<b>SKT-124</b>
Company	StressMarq Biosciences Inc. PO Box 55036 Cadboro Bay Victoria BC V8N4G0 CANADA Tel: 250.294.9065   Fax: 250-294-9025   <a href="mailto:info@stressmarq.com">info@stressmarq.com</a> <a href="http://www.stressmarq.com">www.stressmarq.com</a>

## Section 2: Chemical Component Information

List of All Components	Anti-HSP70 Immunoassay Plate (SKC-124A) 5X HSP70 Extraction Reagent (SKC-124B) Recombinant HSP70 Alfalfa Standard (SKC-124C) Standard and Sample Diluent (SKC-124D) 10X Wash Buffer (SKC-124E) Anti-HSP70 Biotinylated Antibody Concentrate (SKC-124F) Anti-HSP70 Biotinylated Antibody Diluent (SKC-124G) Streptavidin: HRP Concentrate (SKC-124H) Streptavidin: HRP Diluent (SKC-124I) TMB Substrate (SKC-124J) Stop Solution (SKC-124K) Pre-treatment Buffer (SKC-124L)				
Hazardous Ingredients					
	<u>Chemical Name</u>	<u>CAS#</u>	<u>Kit Component</u>	<u>Percent</u>	<u>SARA 313</u>
	Kathon	26172-55-4 AND 2682-20-4	SKC-124B, SKC-124D, SKC-124E, SKC-124F, SKC-124G, SKC-124I	<1.15 <0.35	NO
	3,3',5,5'- tetramethylbenzidine (TMB)	54827-17-7	SKC-124J	N/A	NO
	Sulfuric Acid	7664-93-9	SKC-124K	<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.
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## Section 4: First Aid Measures

	Sulfuric Acid	TMB	Kathon
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.	Wash thoroughly with soap and water.

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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. 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. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

### 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.
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	Kathon
Appearance	Clear, colorless liquid	Liquid	Clear, colorless liquid

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Odor	Odorless	Odorless	Characteristic
Boiling Point	270°C	Not determined	Not determined
Melting Point	-35°C	Not determined	Not determined
Flash Point	Not applicable	Not applicable	Not applicable
Ignition temperature	Not determined	Not determined	Decomposition temperature: Not determined
Vapor Pressure	Not determined	Not determined	Not determined
Solubility in Water	Complete	Not determined	Complete
pH	Acidic	N/A	N/A

### 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 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
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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

<u>Sulfuric Acid</u>	<u>TMB</u>	<u>Kathon</u>
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.	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.

### 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.