

## Section 1: Product and Company Identification

Product Name **Cortisol EIA Kit**  
 Catalog Number **SKT-201**  
 Company StressMarq Biosciences Inc.  
 PO Box 55036 Cadboro Bay Victoria BC V8N4G0 CANADA  
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## Section 2: Chemical Component Information

List of Components Plate (SKC-201A)  
 Cortisol Standard (SKC-201B)  
 Cortisol Antibody (SKC-201C)  
 Cortisol Conjugate (SKC-201D)  
 Assay Buffer (SKC-201E)  
 Dissociation Reagent (SKC-201F)  
 Wash Buffer Concentrate (SKC-201G)  
 TMB Substrate (SKC-201H)  
 Stop Solution (SKC-201I)  
 Plate Sealer (SKC-201J)

### Hazardous Ingredients

| Chemical Name                        | CAS #                                         | Kit Component                                                                                           | Percent              | SARA 313 |
|--------------------------------------|-----------------------------------------------|---------------------------------------------------------------------------------------------------------|----------------------|----------|
| ProClin® 200                         | 10377-60-3 AND<br>55965-84-9 AND<br>3251-23-8 | Plates, Cortisol Standard, Cortisol Antibody, Cortisol Conjugate, Assay Buffer, 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.

## 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. |

# Material Safety Data Sheet

Cortisol EIA Kit (Cat No. SKT-201)

|             |                                                                                                                                                                                                                                        |                                                                                                                                                                               |                                                                                                                                                                                                                                               |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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. 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. |

## 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       | 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

|                             |                                                                                                                           |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------|
| <u>Route of Exposure</u>    |                                                                                                                           |
| 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.                                                                                              |
| <u>Symptoms of Exposure</u> | 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>U.S. and Canadian Transportation; DOT</u> |                  |
| Proper Shipping Name                         | Chemical Kits    |
| UN Identification Number                     | 3316             |
| Class and Description                        | 9, Miscellaneous |
| Packing Group                                | N/A              |

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|                                                |                  |
|------------------------------------------------|------------------|
| Hazard Label                                   | Class 9          |
| <u>International Air Transportation (IATA)</u> |                  |
| 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

| <u>Sulfuric Acid</u>                                                                                                                                                                                                                                                                                                                                                       | <u>TMB</u>                                                                                                                                                                               | <u>ProClin® 200</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| H302 Harmful if swallowed.<br>H314 Causes severe skin burns and eye damage<br>H335 May cause respiratory irritation.<br>P280 Wear protective gloves, protective clothing, eye protection and face protection<br>R21/22 Harmful in contact with skin and if swallowed.<br>R36/37/38 Irritating to eyes, respiratory system and skin.<br>R36/38 Irritating to eyes and skin. | H302 Harmful if swallowed.<br>R21/22 Harmful in contact with skin and if swallowed.<br>R36/37/38 Irritating to eyes, respiratory system and skin.<br>R36/38 Irritating to eyes and skin. | H314 Causes severe skin burns and eye damage.<br>H317 May cause an allergic skin reaction.<br>H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.<br>H335 May cause respiratory irritation.<br>H411 Toxic to aquatic life<br>P261 Avoid inhalation<br>P264 Wash skin thoroughly after handling.<br>P271 Use in a well-ventilated area.<br>P272 Contaminated work clothing should not be allowed out of the workplace.<br>P273 Avoid release to the environment.<br>P280 Wear protective gloves/protective clothing/eye and face protection<br>P284 Wear respiratory protection<br>R34/43/50 Harmful in contact with skin and if swallowed.<br>R36/37/38 Irritating to eyes, respiratory system and skin.<br>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.