

## Section 1: Product and Company Identification

Product Name **Glutathione Reductase Activity Kit**  
 Catalog Number **SKT-204**  
 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 Glutathione Reductase Standard (SKC-204B)  
 StressXpress® Detection Reagent (SKC-204C)  
 Dry DMSO (SKC-204D)  
 Assay Buffer Concentrate (SKC-204E)  
 NADPH (SKC-204F)  
 NADPH Diluent (SKC-204G)  
 Oxidized Glutathione (SKC-204H)

### Hazardous Ingredients

Chemical Name	CAS #	Kit Component	Percent	SARA 313
Dimethyl sulfoxide	67-68-5	Dry DMSO	100%	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.

Dimethyl sulfoxide May be harmful if inhaled, absorbed through skin or swallowed. May be irritating to eyes, respiratory system and skin. Harmful to aquatic organisms, may cause long-term adverse effects in aquatic environment.

**Hazard Statement(s):**  
 H227: Combustible liquid.

**Precautionary Statement(s):**  
 P210: Keep away from {heat/sparks/open flames/hot surfaces}. - No smoking.  
 P280: Wear {protective gloves/protective clothing/eye protection/face protection}.

## Section 4: First Aid Measures

Inhalation If inhaled, remove to fresh air.

Skin Contact Wash thoroughly with soap and water.

Eye Contact Rinse eyes with water as a precaution.

Ingestion If swallowed, wash out mouth with water if person is conscious.

## Section 5: Fire Fighting Measures

Flash Point 87°C (189°F) – closed cup  
 Explosion Limits N/A  
 Auto-ignition Temp 301°C (574°F)  
 Flammability N/A

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Extinguishing Media	Suitable: Water spray, alcohol-resistant foam, carbon dioxide, or dry chemical.
Firefighting	Protective Equipment: Wear self-contained breathing apparatus if necessary.

## 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.
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

<u>Characteristic</u>	<u>Dry DMSO (Dimethyl sulfoxide, 100%)</u>
Appearance	Clear, colorless liquid
Odor	Slight
Boiling Point	189°C (372°F) at 1,013 hPa (760 mmHg)
Melting Point	18.4°C (65.1°F)
Flash Point	87°C (189°F) – closed cup
Ignition temperature	301°C (574°F)
Density	1.1 g/cm <sup>3</sup>
Vapor Pressure	0.55 hPa (0.41 mmHg) at 20°C (68°F)
Solubility in Water	Complete
pH	N/A

## Section 10: Stability and Reactivity

Stability	This material is stable until the expiration date on the kit if stored as directed.
Conditions to Avoid	Moisture.
Incompatibles	Strong oxidizing or reducing agents, acid chlorides, phosphorus halides, strong acids.

## 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.

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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.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):**

H227: Combustible liquid.

### 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

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	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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