

Section 1: Product and Company Identification

Product Name **Glutathione Fluorescent Detection Kit**
 Catalog Number **SKT-202**
 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-202A)
 Glutathione Standard (SKC-202B)
 Detection Reagent (SKC-202C)
 Dry DMSO (SKC-202D)
 Assay Buffer (SKC-202E)
 NADPH Concentrate (SKC-202F)
 Glutathione Reductase Concentrate (SKC-202G)
 Oxidized Glutathione Control (SKC-202H)

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. Seek medical attention if any respiratory symptoms develop.

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

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Auto-ignition Temp	301°C (574°F)
Flammability	N/A
Extinguishing Media	Suitable: Water spray, alcohol-resistant foam, carbon dioxide, or dry chemical.
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	Dry DMSO 100%
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 ³
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.
Incompatibles	Strong oxidizing or reducing agents, acid chlorides, phosphorus halides, strong acids.
Conditions to Avoid	Moisture

Section 11: Toxicological Information

<u>Route of Exposure</u>	
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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.
<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.

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**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.

**Last Document
Revision Date:**

13-Jan-2021