Material Safety Datasheet (MSDS)

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Version 1.1
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Applied Biological Materials Inc.
1-3671 Viking Way,
Richmond, BC, CANADA
V6V 2J5

Section 1 – Product and Company Information

Product Name	Opti-Protein Dual Color Marker
Catalog # From Manufacturer	G523
Original Manufacturer	Applied Biological Materials Inc.

Company	Applied Biological Materials Inc.
Address	#1-3671 Viking Way Richmond BC V6V 2J5 CA
Technical Phone	604-247-2416
Fax	604-247-2414
Emergency Phone	866-757-2414

Section 2 – Composition/Information on Ingredient

Ingredient	Amount	EC#	CAS#
Water	> 50 % (v/v)	231-791-2	7732-18-5
Glycerol	10-25 % (v/v)	200-289-5	56-81-5
Sodium Dodecyl Sulfate	1-3 %	205-788-1	151-21-3
Urea	<25 %	200-315-5	#57-13-6
Tris- Phosphate	1-2 %	230-260-2	6992-39-8
Dithiothreitol	3%~16%	222-468-7	3483-12-3
Other Components	Components not listed here are not hazardous or their concentrations do not exceed the limits specified in the OSHA Hazard Communication Standard 29 CFR 1910.1200.		

Section 3 – Hazards Identification

WHMIS Classification	• Health Hazard: 0 • Flammability: 0 • Reactivity: 0
NFPA Rating	• Health: 1 • Flammability: 0 • Reactivity: 0

Section 4 – First Aid Measures

Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Skin Contact	Wash off with soap and plenty of water. Consult a physician.
Inhalation	If breathed in, move person into fresh air. If not breathing give artificial respiration. Consult a physician.
Ingestion	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Section 5 – Fire Fighting Measures

Suitable Extinguishing Media	Use media appropriate to the primary cause of fire. Dry chemical, CO_2, water spray or regular foam.
Specific Hazards	Not thoroughly investigated.

Section 6 – Accidental Release Measures

Personal Precautions	Use personal protective equipment as required. Ensure adequate ventilation.
Methods for Cleaning Up	Contain and clean up spill immediately, prevent from entering floor drains. Contain liquids using absorbents. Shovel all spill materials into disposal drum. Scrub spill area with detergent, flush with copious amounts of water.
Environmental Precautions	No special measures required.

Section 7 – Handling and Storage

Handling	Wear personal protective equipment/face protection. Ensure adequate ventilation.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place.

Section 8 – Exposure Controls/ PPE

Engineering Controls	• No specific requirements relating to the product.
Personal Protective Equipment	• Respiratory protection: No special measures required. • Hand protection: Wear rubber gloves. None special requirements to rubber. • Eye protection: No need to wear glasses (goggles) when ordinary operations with the product. Safety glasses are recommended during certain operations when aerosol formation is possible. • Skin protection: The usual precautionary measures accepted in research laboratories, e.g. protective clothes (gowns).
General Hygiene Measures	• Handle in accordance with good industrial hygiene and safety practice.

Section 9 – Physical and Chemical Properties

Appearance	Liquid, Blue.
Odour	Odorless or weak
Melting Point (°C)	Not applicable
Boiling Temperature (°C)	~100
Density	~1 g/cm^3
Vapour Pressure	Not applicable.
Solubility in Water	Miscible.
Flash Point	Not applicable.
Explosion Limits	The product does not possess explosive properties.
Ignition Temperature	The product is not flammable/self-igniting.

Section 10 – Stability and Reactivity

Stability	• Stability: Stable under normal conditions.
Hazardous Decomposition Products	• No dangerous decomposition products known.
Incompatible Materials	• Strong bases and strong oxidizing agents.
Hazardous Polymerization	• Does not occur.

Section 11 – Toxicological Information

Route of Exposure	• Inhalation: Inhalation of aerosols may cause allergic type reactions in sensitized individuals. • Ingestion: Repeated ingestion or excessive dosage may be irritating. • Skin and eye contact: Prolonged contact may cause irritation.
Signs and Symptoms of Exposure	• To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 12 – Ecological Information

Toxicity	• No data available.
Persistence and Degradability	• The product is readily biodegradable.
Bioaccumulative Potential	• It is considered that the product does not accumulate in biota, and does not pass through the food chain.
Mobility in Soil	• No data available.

Section 13 – Disposal Considerations

Product	• Dispose in accordance with current local environmental regulations.

Section 14 – Transportation Information

DOT	• Not regulated.
IATA	• Not regulated.

Section 15 – Regulatory Information

- WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.
- DSL: No
- NDSL: No

Section 16 – Other Information

The information contained in this Material Safety Datasheet is believed to be accurate but it is the responsibility of the user or supplier to determine the applicability of these data to the formulation of necessary safety precautions.

Applied Biological Materials Inc. shall not be held responsible for any damage resulting from the use of the above product or the information contained in this Material Safety Datasheet.