

**Applied Biological Materials Inc.
MATERIAL SAFETY DATA SHEET**

Section 1 - Product and Company Information

Product Code G193
Product Name 100bp Plus Opti-DNA Marker
Company Applied Biological Materials Inc.
Address 1-3671 Viking Way
Richmond BC V6V 2J5 Canada
Technical Phone: 604-247-2416
Fax: 604-247-2414
Emergency Phone: 866-757-2414

Section 2 - Hazards Identification

GHS-Classification

Signal Word
Not Hazardous

Health Hazard
Not Hazardous

Physical Hazards
Not Hazardous

Principle Routes of Exposure/Potential Health Effects

Eyes May cause eye irritation with susceptible persons.
Skin May cause skin irritation in susceptible persons.
Inhalation May be harmful by inhalation.
Ingestion May be harmful if swallowed.

Specific Effects

Carcinogenic Effects None
Mutagenic Effects None
Reproductive Toxicity None
Sensitization None

Target Organ Effects No known effects under normal use conditions.

HMIS

Health	0
Flammability	0
Reactivity	0

Section 3 - Composition/Information on Ingredient

The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

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.
Notes to physician	Treat symptomatically.

Section 5 - Fire Fighting Measures

Suitable extinguishing media	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special protective equipment for fire-fighters	Wear self contained breathing apparatus for fire fighting if necessary.
Unusual Fire and Explosions Hazard(s)	N/A
Flash Point	N/A
Autoignition Temp	N/A
Flammability	N/A

Section 6 - Accidental Release Measures

Personal Precautions	Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of vapors. Wear disposable coveralls and discard them after use.
Methods for Cleaning-up	Soak up with inert absorbing materials and place in a closed container for disposal. Ventilate area and wash spill site after material pickup is complete.
Environmental Precautions	Prevent further leakage or spillage if safe to do so. See Section 12 for additional information.

Section 7 - Handling and Storage

Handling	Always wear recommended Personal Protective Equipment. No special handling required.
Storage	Keep cap tightly closed. Store at -20°C.

Section 8 - Exposure Controls / PPE

Exposure Limits

We are not aware of any national exposure limit

Engineering Measures

Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Personal Protective Equipment requirements are dependent of the user institution's risk assessment, and are specific to the risk assessment for each laboratory where this material may be used.

Respiratory Protection	Wear Suitable respiratory equipment if ventilation is insufficient.
Hand	Compatible chemical-resistant gloves.
Eye	Compatible safety goggles.
Skin and body protection	Lightweight protective clothing.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice.

Environmental Exposure Controls

Prevent product entering drains

Section 9 - Physical and Chemical Properties

General Physical Properties

Form	Liquid
Appearance	No information available
Odor	Mild
Boiling Point/Range	°C no data available °F no data available
Melting Point/Range	°C no data available °F no data available
Flash Point	°C no data available °F no data available
Auto-ignition Temperature	°C no data available °F no data available
Oxidizing Properties	No information available
Solubility	No information available
pH Range	No information available

Section 10 - Stability and Reactivity

Stability	Stable under normal conditions.
Materials to Avoid:	No dangerous reaction known under normal conditions.
Hazardous Decomposition Products	None under normal conditions.
Hazardous Polymerization	Does not occur.

Section 11 - Toxicological Information

Acute Toxicity No information available

Principle Route of Exposure/Potential Health Effects

Eye	May cause eye irritation with susceptible persons.
Skin	May cause skin irritation in susceptible persons.
Inhalation	May be harmful by inhalation.
Ingestion	May be harmful if swallowed.

Carcinogenic Effects	None
Mutagenic Effects	None
Reproductive Toxicity	None
Sensitization	None

Target Organ Effects No known target organ effects.

Section 12 - Ecological Information

Ecotoxicity Effects	No information available.
Mobility	No information available.
Biodegradation	Inherently biodegradable.
Bioaccumulation	Does not bioaccumulate.

Section 13 - Disposal Considerations

Dispose of in accordance with local regulations.

Section 14 - Transportation Information

IATA

Proper Shipping Name	Not classified as dangerous under the transport regulations.
Hazard Class	None
Subsidiary Class	None
Packing Group	None
Un-No	None

Section 15 - Regulatory Information

U.S. Federal Regulations

SARA 313

Not Regulated by SARA.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs)

Contains no HAPs.

U.S. State Regulations

California Proposition 65

Contains no chemical listed under Proposition 65.

Canadian Regulations

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by CPR.

WHMIS Hazard Class

Not controlled.

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

Section 16 - Other Information

DISCLAIMER: For R&D use only. Not for drug, household or other uses.

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.