

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

**Section 1 - Product and Company Information**

**Product Code** G108-G  
**Product Name** Safe-Green™  
**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** No information available  
**Sensitization** No information available

**Target Organ Effects** No known effects under normal use conditions.

**HMIS**

Health	0
Flammability	0
Reactivity	0

**Section 3 - Composition/Information on Ingredient**

Chemical Name	CAS-No	EINECS-No	Weight %
Safe-Green™	-	-	<1%
Nucleic Acid Stain	-	-	<1%
Glycerol	56-81-5	200-289-5	10-50%
Dimethyl Sulfoxide	67-68-5	200-664-3	20-50%
Water	7732-18-5	-	20-50%

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

<b>Eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
<b>Skin contact</b>	Wash off with soap and plenty of water. Consult a physician.
<b>Inhalation</b>	If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.
<b>Ingestion</b>	Rinse mouth with water. Consult a physician.
<b>Notes to physician</b>	Treat symptomatically.

#### Section 5 - Fire Fighting Measures

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

#### Section 6 - Accidental Release Measures

<b>Personal Precautions</b>	Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of vapors. Wear disposable coveralls and discard them after use.
<b>Methods for Cleaning-up</b>	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.
<b>Environmental Precautions</b>	Prevent further leakage or spillage if safe to do so. See Section 12 for additional information.

#### Section 7 - Handling and Storage

<b>Handling</b>	Always wear recommended Personal Protective Equipment. No special handling required.
<b>Storage</b>	Keep cap tightly closed. Store at 4°C.

#### Section 8 - Exposure Controls / PPE

##### Exposure Limits

No known exposure limits.

**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.

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

**Environmental Exposure Controls**

Prevent undiluted product entering drains.

<b>Section 9 - Physical and Chemical Properties</b>
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**General Physical Properties**

<b>Form</b>	Liquid
<b>Appearance</b>	Green
<b>Odor</b>	No information available
<b>Boiling Point/Range</b>	No information available
<b>Melting Point/Range</b>	No information available
<b>Flash Point</b>	No information available
<b>Auto-ignition Temperature</b>	No information available
<b>Oxidizing Properties</b>	No information available
<b>Solubility</b>	No information available
<b>pH Range</b>	No information available

<b>Section 10 - Stability and Reactivity</b>
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<b>Stability</b>	Stable under normal conditions.
<b>Materials to Avoid</b>	No dangerous reaction known under normal conditions.
<b>Hazardous Decomposition Products</b>	None under normal conditions.
<b>Hazardous Polymerization</b>	Does not occur.

<b>Section 11 - Toxicological Information</b>
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**Acute Toxicity**

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LD50, mg/L/4hr	Inhalation Dust/Mist LD50, mg/L/4hr	Inhalation Gas LD50, ppm
Dimethyl Sulfoxide (67-68-5)	14,500.00 Rat	5,000.00 Rabbit	No data available	No data available	40,250.00 Rat

**Principle Route of Exposure/Potential Health Effects**

<b>Eye</b>	May cause eye irritation with susceptible persons.
<b>Skin</b>	May cause skin irritation in susceptible persons.
<b>Inhalation</b>	May be harmful by inhalation.
<b>Ingestion</b>	May be harmful if swallowed.
<b>Carcinogenic Effects</b>	None
<b>Mutagenic Effects</b>	None
<b>Reproductive Toxicity</b>	No information available
<b>Sensitization</b>	No information available
<b>Target Organ Effects</b>	No known effects under normal use conditions.

**Section 12 - Ecological Information****Aquatic Ecotoxicity**

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Dimethyl Sulfoxide (67-68-5)	34,000.00 Pimephales	25,000.00 Daphnia magna	12,350.00 (96 hr) Skeletonema costatum

<b>Ecotoxicity Effects</b>	No information available
<b>Mobility</b>	No information available
<b>Biodegradation</b>	No information available
<b>Bioaccumulation</b>	No information available

**Section 13 - Disposal Considerations**

Dispose of in accordance with local regulations.

**Section 14 - Transportation Information****IATA**

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