

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
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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

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	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 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.

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	Green
Odor	No information available
Boiling Point/Range	No information available
Melting Point/Range	No information available
Flash Point	No information available
Auto-ignition Temperature	No information 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

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
Methane, sulfinylbis (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

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

Section 12 - Ecological Information

Aquatic Ecotoxicity

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

Ecotoxicity Effects No information available
Mobility No information available
Biodegradation No information available
Bioaccumulation No information available

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.