

# Material Safety Datasheet (MSDS)

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Version 2.2  
www.abmgood.com

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

## Section 1 – Product and Company Information

Product Name	SYBR Green Solution
Catalog # From Manufacturer	CH131
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

Substance Name	Dimethyl sulfoxide (DMSO)
Formula	C <sub>2</sub> H <sub>6</sub> OS
CAS Number	67-68-5
EEC-No	200-664-3
% by Weight	~99%
Other Components	Other components (e.g., Tris-HCl, glycerol, bromophenol blue, water) are not classified as hazardous or are present below the regulatory threshold concentrations specified in OSHA Hazard Communication Standard 29 CFR 1910.1200.

## Section 3 – Hazards Identification

WHMIS Classification	<ul style="list-style-type: none"> <li>Health Hazard: 2</li> <li>Flammability: 1</li> <li>Reactivity: 0</li> </ul>
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<b>NFPA Rating</b>	<ul style="list-style-type: none"> <li>• Health: 2</li> <li>• Flammability: 1</li> <li>• Reactivity: 0</li> </ul>
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## 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>	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

## Section 5 – Fire Fighting Measures

<b>Suitable Extinguishing Media</b>	Use media appropriate to the primary cause of fire. Dry chemical, CO <sub>2</sub> , water spray or regular foam.
<b>Specific Hazards</b>	Carbon oxides, nitrogen oxides.

## Section 6 – Accidental Release Measures

<b>Personal Precautions</b>	Use personal protective equipment as required. Ensure adequate ventilation.
<b>Methods for Cleaning Up</b>	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.
<b>Environmental Precautions</b>	Prevent discharge into the environment. Dike spills and stop leakage where practical. Do not allow material to enter drains.

## Section 7 – Handling and Storage

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

## Section 8 – Exposure Controls/ PPE

<b>Engineering Controls</b>	<ul style="list-style-type: none"> <li>• A system of local and/or general exhaust is recommended to keep employee exposures low. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source.</li> </ul>
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<b>Personal Protective Equipment</b>	<ul style="list-style-type: none"> <li>• <b>Eye Protection:</b> Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.</li> <li>• <b>Skin and Body Protection:</b> Wear appropriate protective gloves and clothing to prevent skin exposure.</li> <li>• <b>Respiratory Protection:</b> If exposure limits are exceeded or you experience irritation, wear NIOSH/MSHA approved gloves. Positive-pressure supplied air respirators may be needed for high airborne contaminant.</li> </ul>
<b>General Hygiene Measures</b>	<ul style="list-style-type: none"> <li>• Handle in accordance with good industrial hygiene and safety practice.</li> </ul>

## Section 9 – Physical and Chemical Properties

<b>Appearance</b>	Clear to slightly yellow solution
<b>Odour</b>	Slight characteristic (DMSO-like)
<b>Melting Point (°C)</b>	< 20 °C
<b>Boiling Temperature (°C)</b>	~ 189 °C
<b>Density</b>	~1.1 g/mL
<b>Vapour Pressure</b>	0.6 mmHg @ 20 °C
<b>Solubility in Water</b>	Fully miscible
<b>Flash Point</b>	87 °C
<b>Explosion Limits</b>	Not applicable
<b>Ignition Temperature</b>	Not applicable

## Section 10 – Stability and Reactivity

<b>Stability</b>	<ul style="list-style-type: none"> <li>• Stability: Stable under normal conditions.</li> </ul>
<b>Hazardous Decomposition Products</b>	<ul style="list-style-type: none"> <li>• Burning may produce carbon oxides or sulfur oxides</li> </ul>
<b>Incompatible Materials</b>	<ul style="list-style-type: none"> <li>• Strong acids and strong oxidizing agents.</li> </ul>
<b>Hazardous Polymerization</b>	<ul style="list-style-type: none"> <li>• Does not occur.</li> </ul>

## Section 11 – Toxicological Information

<b>Route of Exposure</b>	<ul style="list-style-type: none"> <li>• Skin Contact: May cause skin irritation.</li> <li>• Skin Absorption: May be harmful if absorbed through the skin.</li> </ul>
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	<ul style="list-style-type: none"> <li>• Eye Contact: May cause eye irritation.</li> <li>• Inhalation: Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.</li> <li>• Ingestion: May be harmful if swallowed.</li> </ul>
<b>Signs and Symptoms of Exposure</b>	<ul style="list-style-type: none"> <li>• To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.</li> </ul>

## Section 12 – Ecological Information

N/A

## Section 13 – Disposal Considerations

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

## Section 14 – Transportation Information

<b>DOT</b>	<ul style="list-style-type: none"> <li>• Proper Shipping Name: None</li> <li>• This substance is considered to be non-hazardous for transport.</li> </ul>
<b>IATA</b>	<ul style="list-style-type: none"> <li>• Non-hazardous for air transport.</li> </ul>

## 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.