

# Material Safety Datasheet (MSDS)

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Version 2.2  
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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	Human Primary Pulmonary Fibroblasts
Catalog # From Manufacturer	T4009
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

No components need to be disclosed according to the applicable regulations.

## Section 3 – Hazards Identification

Classification of the Substance or Mixture	Not a hazardous substance or mixture according to the Globally Harmonized System (GHS).
GHS Label Elements, including Precautionary Statements	Not a hazardous substance or mixture according to the Globally Harmonized System (GHS).
Hazards Not Otherwise Classified (HNOC) or Not Covered by GHS	None

## Section 4 – First Aid Measures

<b>Eye Contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes, remove contact lens if applicable; 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.
<b>Most important symptoms and effects, both acute and delayed</b>	The most important known symptoms/effects are described in the labelling (see Section 3) and/or in Section 11.
<b>Indication of any immediate medical attention and special treatment needed</b>	No data available.

## 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>	<ul style="list-style-type: none"><li>• Carbon oxides</li><li>• Sulfur oxides</li><li>• Mixture with combustible ingredients.</li><li>• Fire may cause evolution of:</li><li>• Sulfur oxides</li><li>• Development of hazardous combustion gases or vapours possible in the event of fire.</li></ul>
<b>Advice for Firefighters</b>	Wear self contained breathing apparatus for firefighting if necessary.
<b>Further Information</b>	Suppress (knock down) gases/vapours/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

## Section 6 – Accidental Release Measures

<b>Personal Precautions</b>	<p>Advice for non-emergency personnel: Do not breathe vapours, aerosols. Evacuate the danger area; observe emergency procedures; consult an expert.</p> <p>For personal protection see section 8.</p>
<b>Methods and Materials for Containment and for Cleaning Up</b>	<p>Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material. Dispose of properly. Clean up affected area.</p>
<b>Environmental Precautions</b>	<p>Do not let product enter drains.</p>
<b>Reference to Other Sections</b>	<p>For disposal see Section 13.</p>

## Section 7 – Handling and Storage

<b>Handling</b>	<p>See Section 3.</p>
<b>Storage</b>	<p>Tightly closed. Recommended storage temperature see product label.</p>

## Section 8 – Exposure Controls/ PPE

<b>Controls Parameters</b>	<p>Contains no substances with occupational exposure limit values.</p>
<b>Engineering Controls</b>	<ul style="list-style-type: none"> <li>• <b>Appropriate Engineering Controls:</b> Change contaminated clothing. Wash hands after working with substance.</li> </ul>
<b>Personal Protective Equipment</b>	<ul style="list-style-type: none"> <li>• <b>Eye/face Protection:</b> Use equipment for eye protection tested and approved under appropriate government standards Safety glasses</li> <li>• <b>Skin and Body Protection:</b> Wear appropriate protective gloves and clothing to prevent skin exposure.</li> <li>• <b>Respiratory Protection:</b> Not required; except in case of aerosol formation.</li> </ul>
<b>Control of Environmental Exposure</b>	<p>Do not let product enter drains.</p>
<b>General Hygiene Measures</b>	<p>Handle in accordance with good industrial hygiene and safety practice.</p>

## Section 9 – Physical and Chemical Properties

<b>Appearance</b>	Form: liquid; Color: yellowish to light pink
<b>Odour</b>	No data available.
<b>pH</b>	No data available.
<b>Melting Point/Freezing point</b>	Not applicable.
<b>Boiling Temperature (°C)</b>	No data available.
<b>Flash Point</b>	No data available.
<b>Evaporation rate</b>	No data available
<b>Flammability</b>	No data available
<b>Vapour Pressure</b>	No data available.
<b>Density</b>	No data available.
<b>Solubility in Water</b>	No data available.
<b>Partition coefficient: n-octanol/water</b>	No data available.
<b>Ignition Temperature</b>	No data available.
<b>Explosion Limits</b>	Not classified as explosive.
<b>Decomposition temperature</b>	No data available.
<b>Viscosity</b>	No data available.
<b>Oxidizing properties</b>	None

## Section 10 – Stability and Reactivity

<b>Reactivity</b>	No data available.
<b>Chemical stability</b>	The product is chemically stable under standard ambient conditions (room temperature).
<b>Hazardous Decomposition Products</b>	In the event of fire: see section 5.
<b>Incompatible Materials</b>	No data available.
<b>Hazardous Polymerization</b>	Does not occur.

## Section 11 – Toxicological Information

<b>Information on Toxicological Effects</b>	<ul style="list-style-type: none"><li>• <b>Acute toxicity</b><ul style="list-style-type: none"><li>○ Oral: No data available</li><li>○ Inhalation: No data available</li><li>○ Dermal: No data available</li></ul></li><li>• <b>Skin corrosion/irritation:</b> No data available</li><li>• <b>Serious eye damage/eye irritation:</b> No data available</li><li>• <b>Respiratory or skin sensitization:</b> No data available</li><li>• <b>Germ cell mutagenicity:</b> No data available</li><li>• <b>Carcinogenicity:</b> No data available</li><li>• <b>Reproductive toxicity:</b> No data available</li><li>• <b>Specific target organ toxicity - single exposure:</b> No data available</li><li>• <b>Specific target organ toxicity - repeated exposure:</b> No data available</li><li>• <b>Aspiration hazard:</b> No data available</li></ul>
<b>Additional Information</b>	Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately.

## Section 12 – Ecological Information

<b>Toxicity</b>	No data available.
<b>Persistence and Degradability</b>	No data available.
<b>Bioaccumulative Potential</b>	No data available.
<b>Mobility in Soil</b>	No data available.
<b>Results of PBT and vPvB Assessment</b>	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.
<b>Endocrine Disrupting Properties</b>	No data available.
<b>Other Adverse Effects</b>	No data available.

## Section 13 – Disposal Considerations

Dispose accordingly to local and institutional regulations.

## Section 14 – Transportation Information

<b>DOT</b>	<ul style="list-style-type: none"><li>• Proper Shipping Name: None.</li><li>• Non-Hazardous for Transport: 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: 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; however, it is the responsibility of the user or supplier to determine the applicability of this data in formulating 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.