

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 Microvascular Endothelial Cells
Catalog # From Manufacturer	T4010
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

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

Section 5 – Fire Fighting Measures

Suitable Extinguishing Media	Use media appropriate to the primary cause of fire. Dry chemical, CO ₂ , water spray or regular foam.
Specific Hazards	<ul style="list-style-type: none">• Carbon oxides• Sulfur oxides• Mixture with combustible ingredients.• Fire may cause evolution of:• Sulfur oxides• Development of hazardous combustion gases or vapours possible in the event of fire.
Advice for Firefighters	Wear self contained breathing apparatus for firefighting if necessary.
Further Information	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

Personal Precautions	Advice for non-emergency personnel: Do not breathe vapours, aerosols. Evacuate the danger area; observe emergency procedures; consult an expert. For personal protection see section 8.
Methods and Materials for Containment and for Cleaning Up	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.
Environmental Precautions	Do not let product enter drains.
Reference to Other Sections	For disposal see Section 13.

Section 7 – Handling and Storage

Handling	See Section 3.
Storage	Tightly closed. Recommended storage temperature see product label.

Section 8 – Exposure Controls/ PPE

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

Section 9 – Physical and Chemical Properties

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

Section 10 – Stability and Reactivity

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

Section 11 – Toxicological Information

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

Section 12 – Ecological Information

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

Section 13 – Disposal Considerations

Dispose accordingly to local and institutional regulations.

Section 14 – Transportation Information

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

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.