

# Material Safety Datasheet (MSDS)

Updated: 02/17/2021

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	Insulin Solution (10 mg/ml)
Catalog #	TM053
Original Manufacturer	Applied Biological Materials Inc. (abm)
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 – Composition/Information on Ingredient

Insulin Solution (10 mg/ml)	This product contains no substances known to be hazardous to health at their given concentration in the formulation.
Molecular weight	5,734.00 g/mol

## Section 3 – Hazards Identification

GHS Classification	Not a hazardous substance or mixture.
GHS Label Elements	Not a hazardous substance or mixture.
Other Hazards	None known.

## Section 4 – First Aid Measures

Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes.
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<b>Skin Contact</b>	Wash off with soap and plenty of water.
<b>Inhalation</b>	If breathed in, move person into fresh air. If not breathing give artificial respiration and 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 water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
<b>Specific Hazards</b>	Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides.

## Section 6 – Accidental Release Measures

<b>Personal Precautions</b>	Exercise appropriate precautions to minimize direct contact with skin or eyes and avoid breathing vapours, mist or gas.
<b>Methods for Cleaning Up</b>	Keep in suitable, closed containers for disposal.

## Section 7 – Handling and Storage

<b>Handling</b>	User Exposure: Avoid inhalation. Avoid contact with eyes, skin, and clothing.
<b>Storage</b>	Keep tightly closed. Store upright to prevent leakage. Store at 2-8°C.

## Section 8 – Exposure Controls/ PPE

<b>Engineering Controls</b>	General industrial hygiene practice.
<b>Personal Protective Equipment</b>	<ul style="list-style-type: none"> <li>Respiratory: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks.</li> <li>Hand: Protective gloves.</li> <li>Eye: Chemical safety goggles.</li> </ul>
<b>General Hygiene Measures</b>	Wash hands thoroughly after handling.

## Section 9 – Physical and Chemical Properties

<b>Appearance</b>	Form: liquid.
<b>Odour</b>	No data available.
<b>pH</b>	8.2 at 25 °C (77 °F).
<b>Melting Point</b>	No data available.
<b>Boiling Temperature (°C)</b>	No data available.
<b>Density</b>	No data available.
<b>Vapour Pressure</b>	No data available.
<b>Solubility in Water</b>	No data available.
<b>Flash Point</b>	No data available.
<b>Explosion Limits</b>	No data available.
<b>Ignition Temperature</b>	No data available.

## Section 10 – Stability and Reactivity

<b>Stability</b>	<ul style="list-style-type: none"><li>• Stable under recommended storage conditions.</li></ul>
<b>Hazardous Decomposition Products</b>	<ul style="list-style-type: none"><li>• Hazardous decomposition products formed under fire conditions. – Carbon oxides, Nitrogen oxides (NO<sub>x</sub>), Sulphur oxides.</li></ul>

## Section 11 – Toxicological Information

<b>Route of Exposure</b>	<ul style="list-style-type: none"><li>• Skin Contact: No data available.</li><li>• Skin Absorption: No data available.</li><li>• Eye Contact: No data available.</li><li>• Inhalation: No data available.</li></ul>
<b>Respiratory or skin sensitisation</b>	<ul style="list-style-type: none"><li>• Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.</li></ul>
<b>Carcinogenicity</b>	<ul style="list-style-type: none"><li>• IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.</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>	Not dangerous goods.
<b>IATA</b>	Not dangerous goods.
<b>IMDG</b>	Not dangerous goods.

## 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.