

B0001 InnoDMEM™

This SDS documents the detailed information for safe handling and use of products.

A. Basic Information/ Identification of Material

Category	Basal Media
Product Name	InnoDMEM™ Dulbecco's Modified Eagle Medium (DMEM) Low Glucose, with 4.0 mM L- Glutamine, with 1000 mg/L Glucose, with 110 mg/L Sodium Pyruvate, without Sodium Bicarbonate
Product Type	Liquid
Catalogue Number	B0001

Recommended and Restricted Use

The media shall be used for research. Not use for diagnostic nor clinical use.

Supplier/ Manufacturer

[Singapore]

InnoCellular Tech Pte Ltd.

Main Laboratory
Block 79 Ayer Rajah Crescent
#05-03, Singapore 139955

B. Hazards Identification

OSHA/HCA

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

Not Classified.

Hazards not otherwise classified

Not known

GHS Label

Signal word No Signal Word.

Hazard Statements No known significant effects or critical hazards.

Precautionary Statements

Prevention Not Applicable.

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Response	Not Applicable.
Storage	Not Applicable.
Disposal	Not Applicable.

C. Composition and Information on Ingredients

Substance/mixture	Mixture	
Other means of identification	Not available	
CAS Number/Other Identifiers	EC Number	Chemical Formula
Not Applicable.	Mixture	Not Applicable.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

D. First Aid Measures

Description of Necessary First Aid Measure

Eye Contact. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Skin Contact. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Inhalation. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Ingestion. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most Important Symptoms and Effects, both Acute and Delayed

Potential Acute Health Effects:

Eye Contact	No known significant effects or critical hazards.
Skin Contact	No known significant effects or critical hazards.
Inhalation	No known significant effects or critical hazards.
Ingestion	No known significant effects or critical hazards.

Over-Exposure Signs/Symptoms:

Eye Contact	No specific data.
Skin Contact	No specific data.
Inhalation	No specific data..
Ingestion	No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

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Notes to physician

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific Treatment

No specific treatment.

Protection of First-Aiders

No action shall be taken involving any personal risk or without suitable training.

E. Fire Fighting Measures

Extinguishing media

Suitable extinguishing media

Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media

None known.

Specific hazards arising from the chemical

In a fire or if heated, a pressure increase will occur, and the container may burst.

Hazardous thermal decomposition products

No specific data.

Special protective actions for fire-fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate personal protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

F. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing dust. Put on appropriate personal protective equipment.

For emergency responders

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

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Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

G. Handling and Storage

Precautions for safe handling

Protective measures

Put on appropriate personal protective equipment.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

Store between the following temperatures: 2 to 8°C (35.6 to 46.4°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

H. Exposure Controls and Personal Protection

Control parameters

Occupational exposure limits

None.

Appropriate engineering controls

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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Individual protection measures

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eyeface protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Body protection

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

I. Physical and Chemical Properties

Appearance

Physical state	Liquid.
Colour	Red (with phenol red)
Odor	Not Available.
Odor threshold	Not Available.
pH	7 to 7.4
Melting point/freezing point	Not Available.
Boiling point, initial boiling point, and boiling range	Not Available.
Flash point	Not Available.
Burning time	Not Applicable.
Burning rate	Not Applicable.

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Evaporation rate	Not Available.
Flammability	Not Available.
Lower and upper explosive (flammable) limits	Not Available.
Vapor pressure	Not Available.
Relative vapor density	Not Available.
Relative density	Not Available.
Solubility(in other solvents)	Not Available.
Solubility in water	Not Available.
Partition coefficient	Not Available.
Auto-ignition temperature	Not Available.
Decomposition temperature	Not Available.
SADT	Not Available.
Viscosity	Not Available.
Flow time (ISO 2431)	Not Available.

J. Stability and Reactivity

Reactivity

No specific test data related to reactivity available for this product or its ingredients.

Chemical stability Possibility of hazardous reactions

The product is stable.

Possibility of hazardous reactions

None under normal conditions of storage and use.

Conditions to avoid

None known based on information supplied.

Incompatible materials

None known based on information supplied.

Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

K. Toxicology Information

Information on toxicological effects

Acute toxicity	Not available.
Irritation/Corrosion	Not available.
Sensitization	Not available.
Mutagenicity	Not available.
Carcinogenicity	Not available.
Reproductive toxicity	Not available.
Teratogenicity	Not available.

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Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure

Routes of entry anticipated: Oral, Dermal.

Potential acute health effects

Eye contact	No known significant effects or critical hazards
Skin contact	No known significant effects or critical hazards.
Inhalation	No known significant effects or critical hazards
Ingestion	No known significant effects or critical hazards

Symptoms related to the physical, chemical, and toxicological characteristics.

Eye contact	No specific data.
Skin contact	No specific data.
Inhalation	No specific data.
Ingestion	No specific data.

Delayed and immediate effects and also chronic effects from short- and long-term exposure**Short term exposure**

Potential immediate effects	Not available.
Potential delayed effects	Not available.

Long term exposure

Potential immediate effects	Not available.
Potential delayed effects	Not available.

Potential chronic health effects

Not available

General	No known significant effects or critical hazards.
Carcinogenicity	No known significant effects or critical hazards.
Mutagenicity	No known significant effects or critical hazards.
Teratogenicity	No known significant effects or critical hazards.
Developmental Effects	No known significant effects or critical hazards.
Fertility Effects	No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates	Not Applicable.
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L. Ecological Information

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Toxicity	Not available.
Persistence/Degradability	Not available.
Bioaccumulative Potential	Not available.
Mobility in Soil	
Soil/Water Partition Coefficient (Koc)	Not available.
Reproductive toxicity	Not available
Other adverse effects	No known significant effects or critical hazards.

M. Disposable Considerations

Disposal Methods

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers

N. Transport Information

UN	Not regulated.
IATA	Not regulated.
IMDG	Not regulated.
ADR/RID	Not regulated.
ADN	Not regulated.

Special precautions for users

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

O. Regulatory Information

Singapore - hazardous chemicals under government control

None.

International regulations:

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed

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UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

International List

National inventory

Europe	Not Determined.
United States	Not Determined.
Canada inventory	Not Determined.
China	Not Determined.
Malaysia	Not Determined.

P. Other Information

Prepared By

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Oct 12 2023

Revision Note

1.0

Abbreviations and acronyms

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

OSHA - Occupational Safety and Health Administration of the US Department of Labour

IATA - International Air Transport Association

DOT - Department of Transportation

IMDG - International Maritime Dangerous Goods

UN = United Nations

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

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End of Safety Data Sheet