

SAFETY DATA SHEET

Section 1: Identification

Product Name: RepliGut® Planar Kit Human Intestinal Epithelial Cells

Catalog Number: HISC

Identified Uses: For research use only

Company: Altis Biosystems, Inc.

6 Davis Drive

Suite 159/PO Box 12878

(919) 885-4823

info@altisbiosystems.com

In an emergency, call 911.

For more information about this SDS, contact Altis Biosystems, Inc.

Section 2: Hazard(s) Identification

Hazard Classification: Not a hazardous substance or mixture

Signal Word(s): None

Hazard Statements: None

Precautionary Statements: P280: Wear protective gloves/protective clothing/eye protection/face protection.

Description of other hazards: None

Section 3: Composition/ Information on Ingredients

Mixtures: Proprietary mixture of human intestinal epithelial cells in freezing media: contains 10% dimethyl sulfoxide (DMSO) and 40% fetal bovine serum (FBS). No components of this mixture are considered to be hazardous at their given concentration.

Section 4: First-Aid Measures

Description of first aid measures:

After skin contact: Immediately take off all contaminated clothing and rinse skin with water for at least 15 minutes. Consult a physician immediately if symptoms occur.

After eye contact: Flush eyes with plenty of water for at least 15 minutes. Remove contact lenses if present and consult a physician.

After inhalation: Move to fresh air and monitor breathing. If breathing becomes difficult, give oxygen and consult a physician immediately. If not breathing, give artificial respiration.

After swallowing: Rinse mouth with water and seek immediate medical attention if feeling unwell. Do not induce vomiting unless directed to do so by medical personnel.

Notes to Physician: Treat symptomatically.

Most important symptoms and effects, both acute and delayed: The most important known symptoms and effects are described in Section 2 and/or Section 11.

Indication of any immediate medical attention and special treatment needed: None.

Section 5: Fire-Fighting Measures

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media: None.

Special hazards arising from the substance or mixture:

Carbon oxides

Nitrogen oxides (NO_x)

Sulfur oxides

Combustible

Vapors are heavier than air and may spread along floors.

Development of hazardous combustion gases or vapors possible in the event of fire.

May decompose upon heating to produce corrosive and/or toxic fumes.

Special protective equipment for firefighters: Wear suitable protective clothing to prevent contact with skin and eyes. Wear self-contained breathing apparatus.

Advice for firefighters: Suppress (knock down) gases/vapors/mist 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: Use eye protection, gloves, and apron. Implement appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of vapors, mist, dust, or gas. Ensure adequate ventilation.

Measures for environmental protection: Do not let product enter drains.

Methods and materials for containment and cleaning up: Soak up spill with inert absorbent material. Hold all material for appropriate disposal as described in Section 13. Decontaminate site and surrounding areas with 10% sodium hypochlorite after material is picked up.

Section 7: Handling and Storage

Precautions for safe handling: Use aseptic procedures. Avoid inhalation, ingestion, and contact with eyes, skin, and clothing. Ensure adequate exhaust ventilation.

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Storage: Keep tightly closed. Store at a temperature lower than -150°C or in liquid nitrogen vapor phase until use.

Section 8: Exposure Controls/Personal Protection**Components with workplace control parameters:**

Dimethyl sulfoxide, DMSO (CAS #67-68-5): 250 ppm permissible concentration

Engineering controls: Ensure adequate ventilation. Use appropriate personal protective work clothing.

Eye protection: Wear appropriate eye protection.

Hand and skin protection: Wear clothing and gloves that cannot be penetrated by chemicals.

Respiratory protection: In case of insufficient ventilation, wear respirators.

Section 9: Physical and Chemical Properties

Appearance: Pink liquid

Odor: No data available

Odor threshold: No data available

pH: 6-8

Melting/Freezing point: No data available

Boiling point/range: No data available

Flash point: No data available

Evaporation rate: No data available

Flammability: No data available

Upper/lower flammability or explosive limits: No data available

Autoignition temperature: No data available

Partition coefficient: n-octanol/water: No data available

Decomposition temperature: No data available

Vapor pressure: No data available

Vapor density: No data available

Relative density: No data available

Water solubility: Not available

Viscosity: No data available

Section 10: Stability and Reactivity

Reactivity: No data available

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: No data available

Conditions to avoid: Excess heat, direct sunlight, moisture

Incompatible materials: Strong oxidizing/reducing agents, strong acids/alkalis

Hazardous decomposition products: In the event of fire, see Section 5.

Section 11: Toxicological Information**Potential routes of exposure/potential health effects**

Acute toxicity: No data available
Skin Contact: No data available
Eye Contact: No data available
Inhalation: No data available
Ingestion: No data available
Carcinogenic effects: None
Mutagenic effects: No data available
Reproductive toxicity: No data available
Sensitization: No data available
Target organs: No data available
Additional Information: The toxicological properties have not been thoroughly investigated.

Section 12: Ecological Information

Ecotoxicity: No data available
Mobility in soil: No data available
Persistence and degradability: No data available
Bioaccumulative potential: No data available
Other adverse effects: No data available

Section 13: Disposal Considerations

Disposal method: Observe all federal, state, and local environmental regulations.

Section 14: Transport Information

DOT Hazard Class: Non-hazardous for transport.
IATA Hazard Class: Non-hazardous for transport.
IMDG Hazard Class: Non-hazardous for transport.

Section 15: Regulatory Information

US Federal Regulations

SARA Section 302: This material does not contain any chemical components that are subject to the reporting requirements established by SARA Title III, Section 302.

SARA Section 313: This material does not contain any chemical components that are subject to the reporting requirements established by SARA Title III, Section 313.

SARA Section 311/312: No SARA Hazards

US State Regulations

California Proposition 65: This product contains chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm:

Progesterone (CAS #57-83-0)- Carcinogen

Streptomycin sulfate (CAS #3810-74-0)- Developmental

Massachusetts Right to Know Components:

Progesterone (CAS #57-83-0)

Pennsylvania Right to Know Components:

Water (CAS #7732-18-5)

Sodium monohydrogen phosphate, heptahydrate (CAS #7782-85-6)

Dimethyl sulphoxide (CAS #67-68-5)

Progesterone (CAS #57-83-0)

New Jersey Right to Know Components:

Water (CAS #7732-18-5)

Dimethyl sulphoxide (CAS #67-68-5)

Progesterone (CAS #57-83-0)

Section 16: Other Information

Disclaimer: The information contained in this SDS was obtained after a meticulous search and the recommendations are based on our present knowledge. This SDS was completed in good faith and while we believe the information is correct, we cannot guarantee accuracy and completeness. The user is responsible for following all federal, state, and local regulations. Altis Biosystems, Inc. is not liable for any damage resulting from handling or from contact with this product.

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