



# Material Safety Data Sheet

Date Updated: 11/2013

Version: 4

MSDS # 14

## Section 1- Product and Company Information

<b>Product Name</b>	LIQUID CELL CULTURE MEDIA: Mammary Basal Epithelial Medium, Mammary Luminal Epithelial Growth Medium, Mammary Fibroblast Culture Medium, Mammary Fibroblast Basal Medium, Mammary Fibroblast Cryopreservation Medium, Keratinocyte Growth Medium, Keratinocyte Basal Medium, Neonatal Keratinocyte Growth Medium, Keratinocyte Cryopreservation Medium, Melanocyte Growth Medium, Melanocyte Cryopreservation Medium, Hepatocyte Plating Medium, Hepatocyte Maintenance Medium, Rodent Hepatocyte Plating Medium, Rodent Hepatocyte Maintenance Medium, Hepatic Progenitor Plating Medium, Hepatic Progenitor Maintenance Medium, MCDB153 Medium, Renal Proximal Convoluted Tubule Plating Medium, Renal Proximal Convoluted Tubule Maintenance Medium, Sebocyte Growth Medium
<b>Product Number</b>	MEG-1, LCM-1, MF-1, MF-2, MFM-100, KM-2, KB-1, KF-1-100, MEL-2, MEL-100, HM-1, HM-2, HM-3, HM-3, HP-1, HP-2, MCDB153, RPCT-1, RPCT-2, SEB-1
<b>Company</b>	ZenBio, Inc
<b>Street Address</b>	3200 East NC Highway 54., Suite 100
<b>City, State, Zip, Country</b>	Research Triangle Park, NC 27709 US
<b>Technical Phone</b>	(919) 547-0692
<b>Emergency Phone</b>	Toll free (866) 234-7673 or (919) 547-0692
<b>FAX</b>	(919) 547-0693

## Section 2- Composition/Information on Ingredients

Zen-Bio mammary, hepatic and keratinocyte, sebocyte, renal media are a mixture of components that may include, but are not limited to: inorganic salts, vitamins, amino acids, carbohydrates, antibiotics and other nutrients. Some media may contain 0-10% fetal bovine or bovine calf serum. Fetal bovine serum is considered non-hazardous per 21 CFR 1910.1200. Since workers differ in sensitivity to animal derived materials, Zen-Bio recommends that Good Laboratory Practices be exercised when using these products, including the use of gloves, eye protection, and a lab coat.

	CAS#	Concentration
Epidermal Growth Factor	62229-50-9	<0.01%
Triiodothyronine	6893-02-3	<0.01%
b-Estradiol	50-28-2	<0.01%
Insulin	9004-10-8	<0.01%
Hydrocortisone	50-23-7	<0.01%
Ethanolamine	141-43-5	<0.01%
Phosphoethanolamine	1071-23-4	<0.01%
Apo-Transferrin	11096-37-0	<0.01%
Sodium Selenite	13410-01-0	2.59ng/0.5L
Cholera Toxin	902-63-9	1.0 ng/ml
Bovine Pituitary Extract	N/A	<0.01%
Epinephrine	51-43-4	<0.01%
Ammonium metavanadate	7803-55-6	0.585 µg/L

## Section 3 Hazards Identification

### Cholera Toxin

Harmful by ingestion. Harmful by skin absorption.

HMIS Health Hazard rating: 2

#### **Sodium Selenite**

Harmful by ingestion. Harmful by skin absorption.

HMIS Health Hazard rating: 4

Avoid breathing dust/fume/gas vapors. Wash hands thoroughly after handling. If swallowed, immediately call a poison control center or doctor/physician. Dispose of contents in an approved waste disposal unit.

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#### **Section 4 First Aid Measures**

If swallowed, wash out mouth with water provided person is conscious. Call a physician immediately. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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#### **Section 5 Fire Fighting Measures**

Not applicable.

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#### **Section 6 Accidental Release Measures**

Use of these products in accordance with Good Laboratory Practices should not result in explosive mixtures being formed.

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#### **Section 7 Handling and Storage**

Store at 2-8°C or -20°C as indicated on product label. Please see expiration date listed on product label.

Avoid contact with skin and eyes.

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#### **Section 8 Exposure Controls/Personal Protective Equipment**

Respiratory protection, ventilation, protective gloves are required under normal product usage.

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#### **Section 9 Physical and Chemical Properties**

Physical state is clear liquid. The color may be clear, or shades of yellow or red. Store at 2-8°C or -20°C as indicated on product label

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#### **Section 10 Stability and Reactivity**

This product is stable when stored under the recommended storage conditions until the expiration date listed on each item.

Use of these products in accordance with Good Laboratory Practices should not result in explosive mixtures being formed. Stable hazardous polymerization should not occur.

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#### **Section 11 Toxicological Information**

Carcinogenicity: 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, ACGIH, NTP, OSHA.

Reproductive toxicity: No data available

Aspiration hazard: No data available

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#### **Section 12 Ecological Information**

Not applicable.

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**Section 13 Disposal Considerations**

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Observe all federal, state and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

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**Section 14 Transport Information**

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US DOT

Sodium Selenite: Class 6.1 Poison inhalation hazard

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**Section 15 Regulatory Information**

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OSHA Hazards: Harmful by ingestion. Harmful by skin absorption. Irritant.

This material does not contain any components with known CAS numbers that exceed the threshold reporting levels established by the USEPA SARA TRI Section 313.

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**Section 16 Other Information**

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**Disclaimer:**

For research use only. Not for clinical, drug, household or other uses.

**Warranty:**

The above information is believed to be correct to the best of our knowledge, but does not purport to be all-inclusive and shall be used only as a guide. Zen-Bio shall have no liability for any direct, indirect, consequential or incidental damages arising out of the use, the results of use, the inability to use, the handling or contact with these products.