

Safety Data Sheet

Date Updated: 12/2014

Version: 9

SDS # 4

Section 1- Product and Company Information

Product Name	HUMAN SUBCUTANEOUS ADIPOCYTES, HUMAN OMENTAL ADIPOCYTES; HUMAN SUBCUTANEOUS PREADIPOCYTES; HUMAN OMENTAL PREADIPOCYTES; HUMAN PRIMARY ADIPOCYTES; HUMAN MESENTERIC PREADIPOCYTES, HUMAN DERMAL FIBROBLASTS, HUMAN ADULT DERMAL FIBROBLASTS, DIABETIC; HUMAN NEONATAL DERMAL FIBROBLASTS; HUMAN ADULT STEM CELLS, HUMAN MESOTHELIAL CELLS, HUMAN ADULT KERATINOCYTES, HUMAN ADULT KERATINOCYTES, DIABETIC; HUMAN NEONATAL KERATINOCYTES, HUMAN POOLED NEONATAL KERATINOCYTES; HUMAN ADULT MELANOCYTES, HUMAN NEONATAL MELANOCYTES; 3T3-L1 PREADIPOCYTES; HUMAN HEPATOCYTES, HUMAN SKELETAL MYOBLASTS, HUMAN SKELETAL MYOBLASTS DIABETIC DONOR, HUMAN SEBOCYTES; HUMAN MAMMARY FIBROBLASTS; HUMAN HEPATIC STELLATE CELLS; HUMAN PANCREATIC STELLATE CELLS; HUMAN GINGIVAL ADULT KERATINOCYTES, HUMAN UMBILICAL CORD ENDOTHELIAL CELLS, HUMAN SKIN, RENAL PROXIMAL CONVOLUTED TUBULES, HUMAN TENOCYTES, HUMAN SUBCUTANEOUS ADIPOSE TISSUE, HUMAN EXOSOMES, HUMAN INTRAHEPATIC BILIARY EPITHELIAL CELLS
Product Number	SA-1096,-1048,-1024,-1012,-1006,-25,-75,-225,-15; OA-1096,-1048,-1024,-1012,-1006,-25,-75,-225,-15, SA-Q1; SP-1096,-1048,-1024,-1012,-1006,-25,-75,-225,-15,-F; BR-F, OP-1096,-1048,-1024,-1012,-1006,-25,-75,-225,15; MSN-F; DF-F; DFD-F, DFN-F, ASC-F; MES-F; KR-F; KR-D-F; KRN-F, KRNP-F, MEL-F,MEL-F-NEO, SP-L1-F,-1096,-1048,-1024; HP-F, SKB-F, SKM-D-F, SEB-F, MF-F, HP-F-S, P-F-S, KRGP-F, HUVEC-F, T-SKN, RPCT-F, T-SQFX-FF, TEN-F, EXP-F100, EXPLMSC-F100, IHBEC-F
Company	Zen-Bio, Inc
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Section 2- Composition/Information on Ingredients

Either frozen or live cells isolated from human adipose tissue or human skin. Live cells are shipped in liquid culture medium (a mixture of components that may include, but not limited to: inorganic salts, vitamins, amino acids, carbohydrates and other nutrients dissolved in water). Frozen cultures are shipped on dry ice in a solution that may contain 5-10% dimethyl sulfoxide (DMSO).

Section 3 Hazards Identification

GHS Symbol: NA Signal Word: NA
HMIS Rating: Health: 0 Flammability: 0 Reactivity:0
NFPA Rating: Health: 0 Flammability:0 Reactivity:0

Each donor is tested and found non-reactive to viral DNA from HIV-1, HIV-2, HTLV I, HTLV II, hepatitis B and hepatitis C. However, no known test can offer complete assurance that the viruses that cause HIV-1, HIV-2, HTLV I, HTLV II, hepatitis B and hepatitis C are not present. Proper precautions and biological containment should be taken when handling cells of human origin, due to their potential biohazardous nature. All human based products should be handled at a BSL-2 (Biosafety Level 2) or higher.



Frozen cultures may contain 5-10% DMSO and/or 0-80% fetal bovine serum (FBS); live cell cultures may contain 0-20% FBS. 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.

Dimethylsulfoxide (DMSO)

See MSDS for DMSO

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.

Section 5 Fire Fighting Measures

Extinguishing Media: Any media suitable for surrounding fire. No unusual fire or explosion hazards.

Section 6 Accidental Release Measures

Contain the spill immediately and decontaminate using a strong solution of sodium hypochlorite (bleach). Volume of bleach should not be less than 10% of the spill volume. Allow at least 10 minutes for neutralization. Absorb spill using suitable absorbent materials.

Section 7 Handling and Storage

Storage pressure:	Ambient
Handling:	Keep tightly closed when not in use.
Storage procedures:	Suitable for most general chemical storage areas.

Section 8 Exposure Controls/Personal Protective Equipment

Safety shower and eye bath. Mechanical exhaust required. No respiratory protection will be needed under normal Good Laboratory Practices operating conditions. Use supplied-air respiratory equipment as required by law. Compatible chemical resistant gloves should be the minimum hand protection. Chemical safety goggles/glasses should be the minimum eye protection. Wash hands and other exposed areas thoroughly with mild soap and water before eating, drinking and when leaving the laboratory. Wash contaminated clothing before reuse.

Section 9 Physical and Chemical Properties

Physical state is clear to yellowish-brown liquid or clear to reddish liquid.

Section 10 Stability and Reactivity

Stable under normal conditions of use and storage.

Section 11 Toxicological Information

Not applicable.

Section 12 Ecological Information

Data not yet available.

Section 13 Disposal Considerations

Observe all federal, state and local environmental regulations.

Section 14 Transport Information

This substance is considered to be non-hazardous for ground or air transport.

Section 15 Regulatory Information

Not applicable

Section 16 Other Information

Disclaimer:

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

The above information is believed to be correct 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 this product.