

SAFETY DATA SHEET

Mesenchymal Stem Cells

FILE NO.: 1

SDS DATE: 23Feb2018

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: human bone marrow derived Mesenchymal Stem Cells
SYNONYMS: hBM-MSC
PRODUCT CODES: MSC-001, MSC-002, MSC-003, MSC-004, MSC-005, MSC-006

MANUFACTURER: RoosterBio Inc.
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OTHER CALLS: (301) 346-9687
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CHEMICAL NAME: n/a
CHEMICAL FAMILY: n/a
CHEMICAL FORMULA: n/a

PRODUCT USE: For Research Use Only. Not intended for human or animal diagnostics or therapeutic uses.

SECTION 2: HAZARDS IDENTIFICATION

EYES: May cause irritation of the eye with susceptible persons.

SKIN: May cause skin irritation in susceptible persons.

INGESTION: May be harmful if swallowed.

INHALATION: May cause irritation of respiratory tract.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Dimethyl Sulfoxide (DMSO) %Vol 5% (vol/vol) All other ingredients in the proportions used are considered non-hazardous by regulating bodies worldwide. This product is not known to contain carcinogens at concentrations of 0.1% or greater.

SECTION 4: FIRST AID MEASURES

EYES: In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Consult a physician.

SKIN: Immediately wash with water and soap and rinse thoroughly. Generally, the product does not irritate the skin.

INGESTION: Rinse mouth with water. Seek medical attention and appropriate follow-up.

INHALATION: If inhaled, remove to fresh air. Consult a doctor in case of complaints.

SECTION 5: FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING AGENTS: This product is non-flammable. Use water spray, foam, dry chemical or carbon dioxide.

PROTECTIVE EQUIPMENT: Wear suitable protective clothing to prevent contact with skin and eyes and self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Use standard laboratory practices including proper personal protective equipment. Methods for cleaning up: Soak up with inert absorbent material and place in closed container for disposal. Wash spill site after material cleanup is complete.

SECTION 7: HANDLING AND STORAGE

HANDLING: Always wear recommended personal protective equipment.

STORAGE: Keep container tightly closed and properly labeled. Store frozen in liquid Nitrogen, vapor phase. (below 150° C)

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Mesenchymal Stem Cells

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: n/a

VENTILATION : Area ventilation is adequate.

RESPIRATORY PROTECTION: Respirator not required.

EYE PROTECTION: Safety glasses or goggles or as recommended by internal laboratory.

SKIN PROTECTION: Gloves or as recommended by internal laboratory.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Wear impervious clothing as appropriate to avoid exposure.

WORK HYGIENIC PRACTICES: Use good laboratory precautions and practices. Wash hands thoroughly after handling.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear liquid

ODOR: slight

pH AS SUPPLIED: 7.5 to 7.7

BOILING POINT: not available

MELTING POINT: 0° C

FREEZING POINT: -4° C

VAPOR PRESSURE (mmHg): not available

VAPOR DENSITY (AIR = 1): not available

SPECIFIC GRAVITY (H2O = 1): not available

EVAPORATION RATE: undetermined

SOLUBILITY IN WATER: soluble

PERCENT SOLIDS BY WEIGHT: not available

PERCENT VOLATILE: not available

VOLATILE ORGANIC COMPOUNDS (VOC): none

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable under recommended transport and storage conditions.

INCOMPATIBILITY (MATERIAL TO AVOID): No information available.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: No known decomposition hazards.

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: Classification criteria are not met based on available data.

SECTION 11 NOTES: When used and handled according to specifications, the product does not have any harmful effects according to available information.

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: undetermined

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SECTION 13: DISPOSAL CONSIDERATIONS

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WASTE DISPOSAL METHOD: Dispose of waste in accordance to applicable national, regional, or local regulations.

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME: None. Not classified as dangerous in the meaning of transport regulations.

HAZARD CLASS: None. Product considered to be non-hazardous.

ID NUMBER: not required

WATER TRANSPORTATION: Not regulated.

AIR TRANSPORTATION: Not regulated. Non-hazardous for air transport.

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): Product is not listed.

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): unknown

311/312 HAZARD CATEGORIES: None known.

313 REPORTABLE INGREDIENTS: This product is not listed.

SECTION 16: OTHER INFORMATION

OTHER INFORMATION: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regards to appropriate safety precautions. Final determination of the suitability of any material is the sole responsibility of the user. RoosterBio reserves the right to revise this MSDS periodically as new information becomes available. It does not represent any guarantee of the properties of the product. RoosterBio shall not be held liable for any damage resulting from handling or from contact with the above product.

DISCLAIMER: This product is for research and development use only. Not for human use. The material may not be used in humans, human clinical trials or diagnostics.

LAST REVISED: 23Feb2018