

## SAFETY DATA SHEET

### RoosterVial™-hBM-10M (MSC-001), RoosterVial™-hBM-1M (MSC-003), RoosterVial™-hBM-50M (MSC-005)

#### Section 1: Identification of the substance/mixture and of the company/undertaking

- 1.1 Product Identifiers:** Human bone marrow derived Mesenchymal Stem Cells (hBM)
- Product Name: RoosterVial™-hBM-10M, RoosterVial™-hBM-1M, RoosterVial™-hBM-50M
- Catalog Number: MSC-001, MSC-003, MSC-005
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:** For Research Use Only.  
Not approved for human use or in clinical procedures.
- 1.3 Company Information:**
- Company: RoosterBio, Inc.  
5295 Westview Drive  
Suite 275  
Frederick, MD 21703
- Email Address: [info@roosterbio.com](mailto:info@roosterbio.com)
- 1.4 Emergency Telephone Number:** (301) 200-5366

#### Section 2: Hazards Identification

- 2.1 Classification of the substance or mixture:** Not a hazardous substance or mixture according to US Regulation 29 CFR 1910.1200.
- 2.2 Label Elements:** Not a hazardous substance or mixture according to US Regulation 29 CFR 1910.1200.
- 2.3 Other Hazards:** Not classified as hazardous but contains human material.  
Handle according to universal precautions and good laboratory practices.

#### Section 3: Composition/Information on Ingredients

- 3.1 Substances:** Not applicable

**3.2 Mixtures:**

**Hazardous components:**

Chemical Name/ Synonyms	CAS No.	Concentration (% v/v)
Dimethyl sulfoxide; DMSO	67-68-5	5

#### Section 4: First Aid Measures

- 4.1 Description of first aid measures:**
- If inhaled:** No special precautions required.
- In Case of Skin Contact:** Wash with water and soap as precaution. If skin irritation persists, consult a physician.
- In Case of Eye Contact:** Immediately flush eye(s) with plenty of water. If eye irritation persists, consult a specialist.
- If Swallowed:** Immediately give large quantities of water to drink. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.
- 4.2 Most important symptoms and effects,**
- Both acute and delayed:** No information available
- 4.3 Indication of immediate medical attention and**
- Special treatment needed:** No information available

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**Section 5: Fire Fighting Measures**

- 5.1 Extinguishing Media**  
**Suitable extinguishing media:** Use water spray, foam, or dry powder.  
**Special hazards arising from the substance or mixture:** No hazardous combustion products are known.
- 5.2**
- 5.3 Precautions for fire-fighters:** In the event of fire, wear self-contained breathing apparatus.  
**Further information:** Use water spray to cool unopened containers.

**Section 6: Accidental Release Measures**

- 6.1 Personal precautions, protective equipment and emergency procedures:** Use personal protective equipment (refer to Section 8).
- 6.2 Environmental precautions:** Prevent product from entering drains.
- 6.3 Methods and materials for containment and clean up:** Contain spillage  
 Collect with inert absorbent material  
 Place in container for disposal according to local/national regulations.
- 6.4 Other information:** None

**Section 7: Handling and Storage**

- 7.1 Handling:** Refer to section 8.  
 Handle using universal precautions, laboratory hygiene, and safety practices.
- 7.2 Storage:** Store in a tightly closed container at liquid Nitrogen, vapor phase, until use.
- 7.3 Specific end use(s):** Refer to instructions for use.

**Section 8: Exposure Controls/Personal Protection**
**8.1 Control Parameters**

Components with control parameters:	Chemical Name	CAS No.	Value Type	Control Parameters	Basis
	Dimethyl sulfoxide; DMSO	67-68-5	TWA	250 ppm	WEEL

**8.2 Exposure controls**

- Engineering measures:** Avoid splashes.
- Personal Protective Equipment**
- Respiratory Protection:** Respirator protection not required.
- Hand Protection:** Chemical resistant gloves.
- Eye/Face Protection:** Safety glasses or goggles.
- Skin/Body Protection:** No special protective equipment required.  
 Appropriate clothing to prevent skin exposure.

## RoosterVial™-hBM-10M (MSC-001), RoosterVial™-hBM-1M (MSC-003), RoosterVial™-hBM-50M (MSC-005)

### Section 9: Physical and Chemical Properties

#### 9.1 Information on basic physical and chemical properties

Appearance:	Liquid
Color:	Clear
Odor:	No data available
Odor Threshold:	No data available
pH:	No data available
Freezing point:	No data available
Boiling point/boiling range:	No data available
Flash point:	No data available
Evaporation rate:	No data available
Flammability (solid, gas)	No data available
Upper explosion limit:	No data available
Lower explosion limit:	No data available
Vapor pressure:	No data available
Relative vapor density:	No data available
Relative density:	No data available
Density:	No data available
Solubilities(ies)	
Water solubility:	Soluble
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available
Explosive properties:	Does not apply, substance is not explosive. There are no chemicals associated with explosive properties.
Oxidizing properties:	Does not apply, substance is not oxidizing. There are no chemicals associated with oxidizing properties.
<b>9.2 Other Information</b>	No data available

### Section 10: Stability and Reactivity

<b>10.1 Reactivity:</b>	Stable under recommended storage conditions.
<b>10.2 Chemical stability:</b>	Stable under normal conditions.
<b>10.3 Possibility of hazardous reactions</b>	Stable under normal conditions.
<b>10.4 Conditions to avoid:</b>	No data available
<b>10.5 Incompatible materials:</b>	Strong oxidizing agents.
<b>10.6 Hazardous decomposition products:</b>	No decomposition if stored normally.

**RoosterVial™-hBM-10M (MSC-001), RoosterVial™-hBM-1M (MSC-003),  
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**Section 11: Toxicological Information**

<b>11.1</b>	<b>Information on toxicological effects</b>	
	<b>Acute toxicity:</b>	No data available
	<b>Inhalation:</b>	No data available
	<b>Dermal:</b>	No data available
	<b>Skin corrosion/irritation:</b>	No data available
	<b>Serious eye damage/eye irritation:</b>	No data available
	<b>Respiratory or skin sensitization:</b>	No data available
	<b>Germ cell mutagenicity:</b>	No data available
	<b>Carcinogenicity (IARC/OSHA/NTP/ACGIH):</b>	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen.
	<b>Reproductive toxicity:</b>	No data available
	<b>Specific target organ toxicity single/Repeated exposure:</b>	No data available
	<b>Aspiration hazard:</b>	No data available
	<b>Further Information:</b>	No additional data is available on the product itself.

**Section 12: Ecological Information**

<b>12.1</b>	<b>Toxicity:</b>	No data available
<b>12.2</b>	<b>Persistence and degradability:</b>	No data available
<b>12.3</b>	<b>Bioaccumulative potential:</b>	No data available
<b>12.4</b>	<b>Mobility in soil:</b>	No data available
<b>12.5</b>	<b>Results of PBT and vPVB assessment:</b>	No data available
<b>12.6</b>	<b>Other adverse effects:</b>	No data available

**Section 13: Disposal Considerations**

<b>13.1</b>	<b>Waste treatment methods:</b>	Dispose of contents/container in accordance with local regulation. Contact waste disposal services.
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## RoosterVial™-hBM-10M (MSC-001), RoosterVial™-hBM-1M (MSC-003), RoosterVial™-hBM-50M (MSC-005)

### Section 14: Transport Information

	IATA/ IMDG/ADR/RID/DOT/TDG:	Not dangerous goods
14.1	UN number:	Not applicable
14.2	Proper shipping name:	Not applicable
14.3	Transport hazard class:	Not applicable
14.4	Packing group:	Not applicable
14.5	Environmental hazards:	No
14.6	Special precautions for user:	None
14.7	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:	Not applicable

### Section 15: Regulatory Information

#### 15.1 Safety, health, and environmental regulations specific for the substance or mixture

<b>SARA 302 Components:</b>	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
<b>SARA 313 Components:</b>	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
<b>SARA 311/312 Hazards:</b>	No SARA Hazards
<b>Clean Air Act:</b>	This product does not contain any hazardous air pollutants (HAP), as defined by the US. Clean Air Act Section 112 (40 CFR 61).

15.2	<b>Chemical safety assessment:</b>	Not required
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### Section 16: 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, Inc. reserves the right to revise this SDS periodically as new information becomes available. It does not represent any guarantee of the properties of the product. RoosterBio, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.

LAST REVISED: 27Apr2020