

SAFETY DATA SHEET

RoosterVial™-hBM-10M-XF (MSC-030), RoosterVial™-hBM-1M-XF (MSC-031), RoosterVial™-hBM-20M-XF (MSC-033)

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

- 1.1 Product Identifiers:** Human bone marrow derived Mesenchymal Stem Cells in xeno free media (hbm)
 Product Name: RoosterVial™-hBM-10M-XF, RoosterVial™-hBM-1M-XF, RoosterVial™-hBM-20M-XF
 Catalog Number: MSC-030, MSC-031, MSC-033
- 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
- 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

RoosterVial™-hBM-10M-XF (MSC-030), RoosterVial™-hBM-1M-XF (MSC-031), RoosterVial™-hBM-20M-XF (MSC-033)

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-XF (MSC-030), RoosterVial™-hBM-1M-XF (MSC-031), RoosterVial™-hBM-20M-XF (MSC-033)

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.
9.2 Other Information	No data available

Section 10: Stability and Reactivity

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

RoosterVial™-hBM-10M-XF (MSC-030), RoosterVial™-hBM-1M-XF (MSC-031), RoosterVial™-hBM-20M-XF (MSC-033)

Section 11: Toxicological Information

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

Section 12: Ecological Information

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

Section 13: Disposal Considerations

13.1	Waste treatment methods:	Dispose of contents/container in accordance with local regulation. Contact waste disposal services.
-------------	---------------------------------	---

RoosterVial™-hBM-10M-XF (MSC-030), RoosterVial™-hBM-1M-XF (MSC-031), RoosterVial™-hBM-20M-XF (MSC-033)

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

SARA 302 Components:	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313 Components:	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.
SARA 311/312 Hazards:	No SARA Hazards
Clean Air Act:	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	Chemical safety assessment:	Not required
------	------------------------------------	--------------

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