



## **HumaTein**

### **MSDS (Material Safety Data Sheet)**

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

##### **1.1 Product identifiers**

Product code: INVIVOECM  
Product name: HumaTein

##### **1.2 Application of the substance/the mixture**

Identified uses: For Research Use Only. Not intended for human or animal diagnostic procedures.

##### **1.3 Details of the supplier**

Company: ROKIT Healthcare, Inc.  
, SOUTH KOREA  
Telephone: +82 3 867 0182  
Fax: +82 2 865 0182  
E-mail address: [humatein@rokit.co.kr](mailto:humatein@rokit.co.kr)

#### **SECTION 2: Hazards Identification**

##### **2.1 Classification of the substance or mixture**

The product is not classified as hazardous according to the Globally Harmonized System (GHS).

##### **2.2 Label elements**

The product does not need to be labeled.

##### **2.3 Other hazards – none**

#### **SECTION 3: Composition/information on ingredients**

The product contains no substances which at their given concentration, are considered to be hazardous to health.

#### **SECTION 4: First aid measures**

##### **4.1 Description of first aid measures**

###### **In case of skin contact**

Rinse cautiously with water for several minutes. Immediate medical attention is not required.

**In case of eye contact**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

**If inhaled**

Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.

**If swallowed**

Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.

**4.2 Most important symptoms and effects, both acute and delayed**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**4.3 Indication of any immediate medical attention and special treatment needed**

N/A

**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing media:**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**5.2 Special hazards arising from the substance or mixture**

Nature of decomposition products not known.

**5.3 Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**5.4 Further information**

N/A

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Avoid dust formation. Avoid breathing vapors, mist or gas.

**6.2 Environmental precautions**

Dilute with plenty of water.

**6.3 Methods and materials for containment and cleaning up**

Sweep up and shovel. Keep in suitable, closed containers for disposal.

**6.4 Reference to other sections**

No dangerous substances are released.

See Section 7 for information on safe handling.

See Section 13 for disposal information.

## **SECTION 7: Handling and storage**

### **7.1 Precautions for safe handling**

Always wear recommended Personal Protective Equipment. No special handling advices are necessary.

### **7.2 Conditions for safe storage, including any incompatibilities**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Keep in a dry place.

### **7.3 Specific end uses**

N/A

## **SECTION 8: Exposure controls/personal protection**

### **8.1 Control parameters**

#### **Components with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

### **8.2 Engineering measures**

Ensure adequate ventilation, especially in confined areas.

### **8.3 Personal protective equipment**

Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific to the risk assessment for each laboratory where this material may be used.

**Eye protection** Wear safety glasses with side shields (or goggles).

**Hand protection** Impermeable gloves

**Skin and Body Protection** Lightweight protective clothing.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

**Hygiene measures** Handle in accordance with good industrial hygiene and safety practice

### **8.4 Environmental exposure controls**

No special environmental precautions required.

## **SECTION 9: Physical and chemical properties**

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

- a) Appearance Form: lyophilized block type or clear liquid/ Color: clear
- b) Odor No information identified
- c) Odor Threshold No information identified
- d) pH 5.0-7.5 at 25°C
- e) Melting point/freezing point No information identified
- f) Initial boiling point and boiling range No information identified
- g) Flash point No information identified
- h) Evaporation rate No information identified
- i) Flammability (solid, gas) No information identified
- j) Upper/lower flammability or explosive limits No information identified
- k) Vapor pressure No information identified
- l) Vapor density No information identified
- m) Relative density No information identified
- n) Water solubility No information identified
- o) Partition coefficient: n-octanol/water No information identified
- p) Auto-ignition temperature No information identified
- q) Decomposition temperature No information identified
- r) Viscosity No information identified
- s) Explosive properties No information identified

t) Oxidizing properties No information identified

## **9.2 Other safety information**

No further relevant information available.

## **SECTION 10: Stability and reactivity**

### **10.1 Reactivity**

No further relevant information available.

### **10.2 Chemical stability**

Stable under normal conditions.

### **10.3 Possibility of hazardous reactions**

No dangerous reactions known.

### **10.4 Conditions to avoid**

Exposure to high temperature may affect product quality.

### **10.5 Incompatible materials**

No further relevant information available.

### **10.6 Hazardous decomposition products**

No dangerous decomposition products known.

## **SECTION 11: Toxicological information**

### **11.1 Information on toxicological effects**

**Acute toxicity** No information identified

**Skin corrosion/irritation** No information identified

**Serious eye damage/eye irritation** No information identified

**Respiratory or skin sensitization** No information identified

**Germ cell mutagenicity** No information identified

**Carcinogenicity** No information identified

**Reproductive toxicity** No information identified

**Specific target organ toxicity - single exposure** No information identified

**Specific target organ toxicity - repeated exposure** No information identified

**Aspiration hazard** No information identified

### **11.2 Principle routes of exposure Potential health effects**

**Inhalation** May be harmful if inhaled. May cause respiratory tract irritation.

**Ingestion** May be harmful if swallowed.

**Skin** May be harmful if absorbed through skin. May cause skin irritation.

**Eyes** May cause eye irritation.

## **SECTION 12: Ecological information**

### **12.1 Ecotoxicity**

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

### **12.2 Persistence and degradability**

N/A

### **12.3 Bioaccumulative potential**

Not known

#### **12.4 Mobility in soil**

No further relevant information available.

#### **12.5 Results of PBT and vPvB assessment**

N/A

#### **12.6 Other adverse effects**

No further relevant information available

### **SECTION 13: Disposal considerations**

#### **13.1 Waste treatment methods**

##### **Recommendation:**

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: Handling and Storage and Section 8: Exposure Control/Personal Protection for additional handling information and protection of employees.

#### **13.2 Uncleaned packagings**

**Recommendation:** Disposal must be made according to official regulations.

**Recommended cleansing agent:** Water, if necessary with cleansing agents.

### **SECTION 14: Transport information**

#### **IATA**

**Proper Shipping Name** No dangerous good in sense of these transport regulations

**Hazard Class** None

**Subsidiary class** None

**Packing group** None

**UN-No** None

**Environmental hazards** None

### **SECTION 15: Regulatory information**

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

N/A

#### **15.2 Chemical Safety Assessment**

N/A

### **SECTION 16: Other Information**

The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein.

The information in this MSDS does not constitute a warranty, expressed or implied, including any implied warranty of merchantability or fitness for any particular purpose.

#### **Department issuing MSDS:**

ROKIT Healthcare, Inc.

**Date of preparation / last revision** 01/01/2019

#### **Abbreviations and acronyms:**

IATA: International Air Transport Association

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative