



## Material Safety Data Sheet

### SECTION 1-DATA OF THE MANUFACTURING COMPANY

<b>NAME OF MANUFACTURER:</b> Rekom Biotech S.L. ESB18947465	<b>FOR PRODUCT RELATED QUESTION CALL:</b> TFNO. +34958637085 FAX. +34958637085 MOB. +34607861573
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### COMPLETE ADDRESS

<b>STREET</b> Avda. De la Innovación	<b>Nº</b> 1	<b>PLACE</b> EDIF. BIC-Granada	<b>C.P.</b> 18100
<b>LOCALITY</b> Armillá	<b>CITY</b> Granada	<b>COUNTRY</b> SPAIN	

### SECTION 2-HAZARDS IDENTIFICATION

Classification of the substance or mixture: not infectious liquid recombinant protein solution which does not contain any animal derived additive. This recombinant antigen is a liquid protein solution, without dangerous goods and is only intended for in vitro laboratory use, only for R&D purposes. This product does not contain hazardous chemicals. Additionally, this product is not known to contain carcinogens at concentrations of 0.1% or greater. As a result, a Material Safety Data Sheet is not required for this product.

Label elements: The product does not need to be labeled in accordance with EC directives or respective national laws.

Other hazards: none

### SECTION 3-COMPOSITION/INFORMATION ON INGREDIENTS

<b>NAME</b> Recombinant hepatitis B virus core antigen assembled as capsid-like particles	<b>PART NUMBER</b> RAG0056
<b>COMPONENTS</b>  his-HBcAg: recombinant antigen with a his-tag in its N-terminus  Storage buffer: 20 mM phosphate buffer pH 8, 0.15 M NaCl, 0.26 M trehalose and 5 mM EDTA	<p>These materials are produced by recombinant microbial expression with vectors that are not considered pathogenic for livestock and avian species and these organisms do not contain genes or express antigens of livestock or poultry agents. This material is not known or suspected to contain an etiological agent, host or vector of human disease.</p> <p>These preparations do not contain any animal derived additives, such as albumin, these products are only intended for In Vitro laboratory use.</p>

**APPEARANCE**

Liquid solution

**APPLICATION**

For Research Use Only

**SECTION 4-FIRST AID MEASURES**

After inhalation: Supply fresh air; consult doctor in case of complaints.

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

After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

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

**SECTION 5: FIRE FIGHTING MEASURES**

Suitable extinguishing agents: The product is non-flammable. Use water spray, alcohol-resistant 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**

Person-related safety precautions: Use standard laboratory practices including proper personal protective equipment.

Measures for environmental protection: Do not let product enter drains.

Measures for containment and cleaning:

-Absorb liquid components with liquid-binding material.

-Pick up mechanically.

-Dispose contaminated material as waste

Additional information: None.

**SECTION 7: HANDLING AND STORAGE**

Precautions for safe handling: No special measures required. No special precautions are necessary if used correctly.

Information about protection against explosions and fires: No special measures required.

Safe storage conditions: Store according to product specifications.

**SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION**

Control parameters: None known. Contains no substances with occupational exposure limits.

Appropriate engineering controls: Follow usual standard laboratory practices. Use appropriate chemical resistant gloves, appropriate safety glasses and wear protective work clothing.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: clear liquid. Upper/lower flammability or explosive limits: Not available.

Odor: Little to none Vapor pressure/density: Not available.

Odor threshold: Not available Relative Density: Not available.

pH: 8 Solubility in/Miscibility with Water: Not available.

Melting point/freezing point: Not available. Partition coefficient: noctanol/water: Not available
Boiling point/Boiling range: Not available. Auto igniting: Product is not self igniting.
Flash point: Not available. Decomposition temperature: Not available.
Evaporation rate: Undetermined. Viscosity: Not available.
Flammability: Not available.

<b>SECTION 10: STABILITY AND REACTIVITY</b>
Reactivity: Stable under recommended transport and storage conditions.
Chemical Stability: Stable under recommended storage and handling temperatures.
Possible hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.
Incompatible materials to be avoided: Heat and moisture.
Incompatible materials: Strong acids/alkalis, strong oxidizing/reducing agents.
Hazardous decomposition products: No known decomposition information.

<b>SECTION 11: TOXICOLOGICAL INFORMATION</b>
Acute toxicity: Classification criteria are not met based on available data.
Skin irritant effect: Classification criteria are not met based on available data.
Eye irritant effect: Classification criteria are not met based on available data.
Sensitization: Classification criteria are not met based on available data.
Mutagenicity: Classification criteria are not met based on available data.
Carcinogenicity: Classification criteria are not met based on available data.
Reproductive toxicity: Classification criteria are not met based on available data.
Additional toxicological information: When used and handled according to specifications, the product does not have any harmful effects according to available information.

<b>SECTION 12: ECOLOGICAL INFORMATION</b>
Ecotoxicity: Undetermined.
Biodegradability: Undetermined
Mobility: Undetermined

<b>SECTION 13: DISPOSAL CONSIDERATIONS</b>
Disposal methods: Dispose of waste in accordance to applicable national, regional, or local regulations.
Contaminated packaging: Dispose in the same manner as unused product.

<b>SECTION 14: TRANSPORT INFORMATION</b>
UN number: no UN number allocated to non-hazardous substances
UN proper shipping name: no UN number allocated to non-hazardous substances
Transport hazard class: IMDG: IATA: Not dangerous goods
Packing group: not applicable
Environmental hazards: No
Special precautions for use: Classification criteria are not met based on available data.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: not applicable

<b>SECTION 15: REGULATORY INFORMATION</b>
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Safety, health and environmental regulations/legislation specific for the substance or mixture: Classification criteria are not met based on available data.
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Chemical safety assessment: not performed with this product
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<b>SECTION 16: OTHER INFORMATION</b>
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Notice to reader: To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.
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