

### MATERIAL SAFETY DATA SHEET

### VIVANTIS TECHNOLOGIES SDN BHD REVONGEN CORPORATION CENTER

Document No.: MSDSrev05\_PC0903

Date prepared: 10<sup>th</sup> January 2023 Reviewed: 10<sup>th</sup> January 2023

### **SECTION 1: CHEMICAL IDENTIFICATION**

Catalogue Number: PC0903-25g

Product Name: Bovine Serum Albumin (BSA)

Intended Use:

For research use only. Not for use in diagnostic procedures.

### **Company Headquarters:**

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### **Company Manufacturing:**

Vivantis Technologies Sdn Bhd Level 1, Enterprise 2, Technology Park Malaysia, Lebuhraya Puchong-Sg. Besi, 57000 Bukit Jalil, Kuala Lumpur, Malaysia.









### SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	EC No.
Serum albumin	9048-46-8	232-936-2

Synonyms: BSA, Bovine albumin

### **SECTION 3: HAZARDS IDENTIFICATION**

### **GHS** Classification

### **OSHA Classification**

The chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122).

### **HNOC** (Hazard not otherwise classified)

Not regulated.

### **SECTION 4: FIRST-AID MEASURES**

In case of eye contact, rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

In case of skin contact, wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.

In case of inhalation, move to fresh air. If not breathing, give artificial respiration.

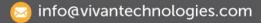
In case of ingestion, never give anything by mouth to an unconscious person. Rinse mouth.

### **SECTION 5: FIRE FIGHTING MEASURES**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH and full protective gear.

Explosion data – sensitivity to mechanical impact: None. Explosion data – sensitivity to static discharge: None.









### SECTION 6: ACCIDENTAL RELEASE MEASURES

For personal protection, ensure adequate ventilation, especially in confined areas. For environmental precautions, prevent further leakage or spillage if safe to do so for containment. For cleaning up, avoid dust formation. Pick up and transfer to properly labeled containers. Ventilate area and wash spill site after material pickup is complete.

### **SECTION 7: HANDLING AND STORAGE**

Handle in accordance with good industrial hygiene and safety practice. Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible with strong oxidizing agents.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory protection Where exposure limits are exceeded, wear respiratory protection. Use

respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Positive pressure-supplied air respirators may be required for high airborne

contamination concentrations.

Skin and body protection 
Impervious clothing. Wear protection gloves/clothing.

Use engineering measures such as showers, eyewash stations and ventilation systems. Handle in accordance with good industrial hygiene and safety practice.

### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:

Physical state:

Odor:

Odor:

Odor threshold:

PH:

Melting point/freezing point Boiling Point/Range:

Flash Point (High in °C):

Off-white to beige

Lyophilized powder

No information available

No information available

No information available

No information available

Evaporation Rate:

Flammability (solid, gas):

Flammability Limit in Air

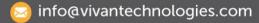
Upper flammability limit:

Lower flammability limit:

No information available

No information available

No information available









Vapor pressure:No information availableVapor Density:No information availableSpecific Gravity:No information availableWater Solubility:Soluble in waterPartition coefficient:No information availableAutoignition Temperature:No information availableDecomposition Temperature:No information available

Decomposition Temperature:

Kinematic viscosity:

No information available
No information available
No information available
No information available
Explosive Properties:

No information available
Oxidizing Properties:

No information available

### **SECTION 10: STABILITY AND REACTIVITY**

Stable under recommended storage conditions.

Materials to avoid: Strong oxidizing agents

Hazardous decomposition product: None known based on information supplied

Hazardous reactions: None under normal processing

Condition to avoid: Extremes temperature, direct sunlight

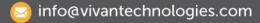
### SECTION 11: TOXICOLOGICAL INFORMATION Acute toxicity

This product contains 100% of mixture of unknown acute toxicity.

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

### **SECTION 12: ECOLOGICAL INFORMATION Ecotoxicity**

This product contains 100% of mixture consisting components of unknown hazards to the aquatic environment.









### **SECTION 13: DISPOSAL CONSIDERATIONS**

Dispose waste material in accordance with all federal, state and local environmental regulation.

For contaminated packing too dispose of as unused product in accordance with all federal, state and local environmental regulation. Do not reuse empty container.

For surplus and non-recyclable solution, offer to a licensed disposal company.

Observe all federal, state and local environmental regulations.

### **SECTION 14: TRANSPORT INFORMATION**

### $\overline{\mathbf{DOT}}$

Not regulated.

### **IATA**

Not regulated.

### **SECTION 15: REGULATORY INFORMATION**

### **International inventories**

**TSCA** Complies DSL/NDSL Complies **EINECS/ELINCS** Complies **ENCS** Do not comply **IECSC** Complies Complies **KECL PICCS** Complies **AICS** Complies

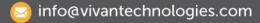
### **U.S. Federal Regulations**

### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

### SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No









### **Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local regional or state level pertaining to releases of this material.

### **U.S. State Regulations**

California Proposition 65

This product does not contain any Proposition 65 chemicals.

### **U.S. EPA Label Information**

**EPA Pesticide Registration Number** 

Not regulated.

### **SECTION 16: OTHER INFORMATION**

The information contained in this MSDS relates only to the material(s) designed and does not relate to use(s) in combination with any other material, process(es) and /or chemical reaction(s). Vivantis Technologies Sdn. Bhd. provides this information in good faith, from sources believed to be accurate; however, Vivantis assumes no liability for its accuracy or completeness, and thus shall not be held liable for any damage resulting from handling or from contact with the above product.

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