

**MATERIAL SAFETY DATA SHEET**  
**VIVANTIS TECHNOLOGIES SDN BHD**

Document No.: MSDSrev06\_PC0713  
Date prepared: 1<sup>st</sup> April 2025

Reviewed: 10<sup>th</sup> April 2025

**SECTION 1: CHEMICAL IDENTIFICATION**

Catalogue Number: PC0713-250mg; PC0713-500mg; PC0713-1g  
Product Name: Ribonuclease A (RNase A)

**Intended Use:**

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

**Company Address:**

Vivantis Technologies Sdn Bhd  
No. 12A, Jalan TP5,  
Taman Perindustrian UEP,  
47600 Subang Jaya,  
Selangor Darul Ehsan, Malaysia.  
Tel: +6 016 226 0492  
Email: [info@vivanttechnologies.com](mailto:info@vivanttechnologies.com)  
Website: [www.vivanttechnologies.com](http://www.vivanttechnologies.com)

Pairing Nature with  
Scientific Discoveries

**SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS No.	EC No.	%
Nuclease, ribo-	9001-99-4	232-646-6	>70

**SECTION 3: HAZARDS IDENTIFICATION**

**GHS Classification**

Respiratory Sensitizer – Category 1B  
 Skin Sensitizer – Category 1B

**GSH Label elements, including precautionary statements**



Signal word: Warning

**Hazard statements**

H317 Causes an allergic skin reaction.  
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Precautionary statements**

P280 Wear protective gloves/protective clothing/eye protection/face protection  
 P302 + P352 If on skin, wash with plenty of soap and water  
 P304 + P340 If inhaled, remove victim to fresh air and keep at rest in a position comfortable for breathing  
 P305 + P351 + P338: If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Pairing Nature with  
 Scientific Discoveries

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

In case of eye contact, rinse thoroughly with plenty of water for at least 15 minutes. 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. If breathing becomes difficult, give oxygen.

In case of ingestion, clean mouth with water and later drink plenty of water. Never give anything by mouth to an unconscious person.

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

Not flammable.

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.

Hazardous decomposition products formed under fire conditions: No information available

Flash point: Not determined.

Explosion data – sensitivity to mechanical impact: Not sensitive.

Explosion data – sensitivity to static discharge: Not sensitive.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

For personal precautions, use personal protective equipment. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation.

For environmental precautions, prevent further leakage or spillage if safe to do so.

For cleaning up, spilled material should be carefully wiped up or moistened with water and removed. 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. Protect from light.

Keep containers tightly closed in a dry, cool and well-ventilated place.

Pairing Nature with  
Scientific Discoveries

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

Respiratory protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive pressure-supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
Eye/Face protection	Use safety goggles with side-shields.
Skin and body protection	Wear protective 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:	White
Physical state:	Lyophilized powder
Odor:	No information available
Odor threshold:	No information available
Density:	No information available
pH:	No information available (powder form) pH8 (solution form)
Melting point:	No information available
Freezing point:	No information available
Initial Boiling point:	No information available
Boiling point:	No information available
Flash point:	Not applicable
Autoignition temperature:	No data available
Decomposition temperature:	No information available
Upper Flammability limit in air:	No data available
Lower Flammability limit in air:	No data available
Explosive properties:	No information available
Oxidizing properties:	No information available
Solubility:	Water-soluble
Partition coefficient (n-octanol/water):	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Evaporation rate:	No data available
Specific gravity:	No data available
Viscosity:	No information available

Pairing Nature with  
Scientific Discoveries

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

Stable under recommended storage conditions.

Materials to avoid: None known based on information supplied.  
Hazardous decomposition products: Carbon oxides.  
Hazardous polymerization: Hazardous polymerization does not occur.  
Conditions to avoid: None known based on information supplied.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

### **Acute toxicity**

Sensitizer.

### **Chronic toxicity**

No known effect based on information supplied.

Target Organ Effects: Kidneys.

## **SECTION 12: ECOLOGICAL INFORMATION**

The environmental impact of this product has not been fully investigated.

## **SECTION 13: DISPOSAL CONSIDERATIONS**

Dispose waste material in accordance with all federal, state and local environmental regulation.  
For contaminated packing, dispose as waste material.

## **SECTION 14: TRANSPORT INFORMATION**

### **DOT**

Not regulated.

### **IATA**

Not regulated.

Pairing Nature with  
Scientific Discoveries

**SECTION 15: REGULATORY INFORMATION**

**International Inventories**

<b>TSCA</b>	Complies
<b>EINECS/ELINCS</b>	Complies
<b>ENCS</b>	Does not comply
<b>IECSC</b>	Complies
<b>KECL</b>	Does not comply
<b>PICCS</b>	Does not comply
<b>AICS</b>	Does not comply

**U.S Federal Regulations**

**SARA 313** Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulation, Part 372.

**SARA 311/312 Hazard Categories**

Acute Health Hazard	Yes
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)

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product does not contain any substances regulated as hazardous air pollutant (HAPs) under Section 112 of the Clean Air Act Amendments of 1990.

**U.S. State Regulations**

**California Proposition 65** This product does not contain any Proposition 65 chemicals.

**International Regulations**

**Mexico – Grade** No information available.

Pairing Nature with  
Scientific Discoveries

**WHMIS Hazard Class**

D2A Very toxic materials

D2B Toxic materials

**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.

All Vivantis products are supplied for manufacturing, research and laboratory use only. Researchers and laboratory personnel intending to use any of these products for medical investigation on human are solely responsible for such use and for compliance with the pertinent regulations of the United States Food & Drug Administration (US-FDA) and other regulations. We do not assume liability for damages resulting from the handling, use and/or disposal of these products, from their use in violation of patent or other rights or reliance upon this information.

Pairing Nature with  
Scientific Discoveries

 info@vivanttechnologies.com www.vivanttechnologies.com  Vivantis Technologies