

## **MATERIAL SAFETY DATA SHEET**

---

### **Section 1 - Product and Company Identification** **RNASE A SOLUTION, B2007**

---

**Product Identification:** RNASE A SOLUTION, B2007  
**Date of MSDS:** 09/22/2000 **Technical Review Date:** 05/19/2001  
**FSC: NIIN:** EMPTY  
**Submitter:** N EN  
**Status Code:** A  
**MFN:** 01  
**Article:** N  
**Kit Part:** N

#### **Manufacturer's Information**

**Manufacturer's Name:** Genet Bio Co.  
**Manufacturer's Address1:** B-412, Migun Techno World II, Techno2-ro, Yuseong-gu  
**Manufacturer's Address2:** Daejeon  
**Manufacturer's Country:** South Korea  
**General Information Telephone:** 82-0502-523-3484  
**Emergency Telephone:** 82-0502-523-3485  
**Proprietary:** N  
**Reviewed:** Y  
**Published:** Y

#### **Contractor Information**

**Contractor's Name:** Genet Bio  
**Contractor's Address1:** B-412, Migun Techno World II, Techno2-ro, Yuseong-gu  
**Contractor's Address2:** Daejeon, South Korea  
**Contractor's Telephone:** 82-0502-523-3485

---

### **Section 2 - Composition/Information on Ingredients** **RNASE A SOLUTION, B2007**

---

**Ingredient Name:** RIBONUCLEASE A  
**Ingredient CAS Number:** 9001-99-4 **Ingredient CAS Code:** T  
**RTECS Number:** RF0760000 **RTECS Code:** T  
**=WT: =WT Code:**  
**=Volume: =Volume Code:**  
**>WT: >WT Code:**  
**>Volume: >Volume Code:**  
**<WT: <WT Code:**  
**<Volume: <Volume Code:**  
**% Low WT: % Low WT Code:**  
**% High WT: % High WT Code:**  
**% Low Volume: % Low Volume Code:**  
**% High Volume: % High Volume Code:**  
**% Text:** N/P  
**% Enviromental Weight:**  
**Other REC Limits:** N/P  
**OSHA PEL:** N/P **OSHA PEL Code:**  
**OSHA STEL:** N/P **OSHA STEL Code:**  
**ACGIH TLV:** N/P **ACGIH TLV Code:**

**ACGIH STEL:** N/P **ACGIH STEL Code:**

**EPA Reporting Quantity:**

**DOT Reporting Quantity:**

**Ozone Depleting Chemical:** N

---

### **Section 3 - Hazards Identification, Including Emergency Overview RNASE A SOLUTION, B2007**

---

**Health Hazards Acute & Chronic:** ACUTE: IRRITATING TO EYES, RESPIRATORY SYSTEM, AND SKIN. MAY CAUSE SENSITIZATION BY INHALATION AND SKIN CONTACT.

**Signs & Symptoms of Overexposure:**

SEE HEALTH HAZARDS.

**Medical Conditions Aggravated by Exposure:**

N/P

**LD50 LC50 Mixture:** N/P

**Route of Entry Indicators:**

**Inhalation:** YES

**Skin:** YES

**Ingestion:** YES

**Carcinogenicity Indicators**

**NTP:** NO

**IARC:** NO

**OSHA:** NO

**Carcinogenicity Explanation:** N/P

---

### **Section 4 - First Aid Measures RNASE A SOLUTION, B2007**

---

**First Aid:**

EYE CONT: IMMEDIATELY FLUSH WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. ASSURE ADEQUATE FLUSHING OF EYES BY SEPARATING THE EYELIDS WITH FINGERS. SKIN CONT: IMMEDIATELY WASH WITH SOAP AND COPIOUS AMOUNTS OF WATER. INHAL: REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. INGEST: WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS. CALL A PHYSICIAN. REMOVE AND WASH CONTAMINATED CLOTHING PROMPTLY.

---

### **Section 5 - Fire Fighting Measures RNASE A SOLUTION, B2007**

---

**Fire Fighting Procedures:**

USE NIOSH APPROVED SCBA AND FULL PROTECTIVE EQUIPMENT (FP N).

**Unusual Fire or Explosion Hazard:**

N/P

**Extinguishing Media:**

CARBON DIOXIDE, DRY CHEMICAL POWDER, OR APPROPRIATE FOAM.

**Flash Point:** **Flash Point Text:** N/A

**Autoignition Temperature:**

**Autoignition Temperature Text:** N/A

**Lower Limit(s):** N/A

**Upper Limit(s):** N/A

---

### **Section 6 - Accidental Release Measures RNASE A SOLUTION, B2007**

---

**Spill Release Procedures:**

PRECAUTIONARY MEASURES: WEAR NIOSH APPRVD SCBA, CHEMICAL SAFETY GOGGS, RUBBER BOOTS, AND HEAVY RUBBER GLOVES. CLEAN-UP PROCEDURE: SWEEP UP, PLACE IN A BAG AND HOLD FOR WASTE DISPOSAL. AVOID DUST. VENT ILATE AREA AND WASH SPILL SITE AFTER MATEIRAL PICKUP IS COMPLETE.

---

**Section 7 - Handling and Storage**  
**RNASE A SOLUTION, B2007**

---

**Spill Release Procedures:** PRECAUTIONARY MEASURES: WEAR NIOSH APPRVD SCBA, CHEMICAL SAFETY GOGGS, RUBBER BOOTS, AND HEAVY RUBBER GLOVES. CLEAN-UP PROCEDURE: SWEEP UP, PLACE IN A BAG AND HOLD FOR WASTE DISPOSAL. AVOID DUST. VENT ILATE AREA AND WASH SPILL SITE AFTER MATEIRAL PICKUP IS COMPLETE.

**Waste Disposal Methods:** NO SPECIAL DISPOSAL METHOD REQUIRED. OBSERVE ALL FEDERAL, STATE, AND LOCAL LAWS.

**Handling And Storage Precautions:** STORE TIGHTLY CLOSED AT -20°C. DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING. DO NOT BREATHE VAPOR. STORE IN A DRY PLACE.

**Other Precautions:** THE PRODUCT SHOULD BE HANDLED WITH THE NORMAL CAUTION ACCORDED CHEMICALS. ADDITIONAL HARMFUL PROPERTIES CANNOT BE RULED OUT.

---

**Section 8 - Exposure Controls & Personal Protection**  
**RNASE A SOLUTION, B2007**

---

**Respiratory Protection:**

NIOSH APPROVED RESPIRATOR.

**Ventilation:**

MECHANICAL EXHAUST REQUIRED.

**Protective Gloves:**

RUBBER GLOVES.

**Eye Protection:** ANSI APPROVED CHEMICAL WORKERS GOGGLES (FP N).

**Other Protective Equipment:** ANSI APPROVED EYE WASH & DELUGE SHOWER (FP N).

**Work Hygenic Practices:** WASH THOROUGHLY AFTER HANDLING.

**Supplemental Health & Safety Information:** N/P

---

**Section 9 - Physical & Chemical Properties**  
**RNASE A SOLUTION, B2007**

---

**HCC:**

**NRC/State License Number:**

**Net Property Weight for Ammo:**

**Boiling Point: Boiling Point Text:** N/A

**Melting/Freezing Point: Melting/Freezing Text:** N/A

**Decomposition Point: Decomposition Text:** N/P

**Vapor Pressure: N/A Vapor Density:** N/P

**Percent Volatile Organic Content:**

**Specific Gravity:** N/A

**Volatile Organic Content Pounds per Gallon:**

**pH:** N/A

**Volatile Organic Content Grams per Liter:**

**Viscosity:** N/A

**Evaporation Weight and Reference:** N/P

**Solubility in Water:** SOLUBLE

**Appearance and Odor:** COLORLESS LIQUID. NO ODOR.

**Percent Volatiles by Volume:** N/P

**Corrosion Rate:** N/P

---

**Section 10 - Stability & Reactivity Data**  
**RNASE A SOLUTION, B2007**

---

**Stability Indicator:** YES

**Materials to Avoid:**

NONE.

**Stability Condition to Avoid:**

N/P

**Hazardous Decomposition Products:**

NONE.

**Hazardous Polymerization Indicator:** NO

**Conditions to Avoid Polymerization:**

N/P

---

**Section 11 - Toxicological Information**  
**RNASE A SOLUTION, B2007**

---

**Toxicological Information:**

TOXICITY DATA: N/A. ACUTE EFFECTS. INHALATION: MAY BE HARMFUL BY INHALATION. EYE CONT: MAY CAUSE EYE IRRITATION. SKIN CONT: MAY CAUSE SKIN IRRITATION. INGEST: MAY BE HARMFUL IF SWALLOWED. PROLONGED EX POSURE: N/A. CHRONIC EFFECTS: N/A.

---

**Section 12 - Ecological Information**  
**RNASE A SOLUTION, B2007**

---

**Ecological Information:**

NO DATA AVAILABLE. HOWEVER, THE SUBSTANCE IS READILY BIODEGRADABLE.

---

**Section 13 - Disposal Considerations**  
**RNASE A SOLUTION, B2007**

---

**Waste Disposal Methods:**

NO SPECIAL DISPOSAL METHOD REQUIRED. OBSERVE ALL FEDERAL, STATE, AND LOCAL LAWS.

---

**Section 14 - Transport Information**  
**RNASE A SOLUTION, B2007**

---

**AIR TRANSPORTATION : ALL AIR TRANSPORTATION APPROVED AND THE PLACE SET TO THE IATA AVIATION ACT IS FOLLOWED.**

---

**Section 15 - Regulatory Information**  
**RNASE A SOLUTION, B2007**

---

**SARA Title III Information:**

N/P

**Federal Regulatory Information:**

LABELING: XN, HARMFUL, R 36/37/38-42/43.

**State Regulatory Information:**

N/P

---

**Section 16 - Other Information**  
**RNASE A SOLUTION, B2007**

---

**Other Information:**

CHEMICAL CHARACTERISTICS: AQUEOUS SOLUTION OF 100 MG/ML RNASE A. SOURCE: BOVINE PANCREAS. CLASSIFICATION OF SUBSTANCE: XN (HARMFUL).

**HAZCOM Label Information**

**Product Identification:** RNASE A SOLUTION, RNASE A, 19101

**Assigned Individual:** N

**Company Name:** Genet Bio

**Health Emergency Telephone:** +82-0502-523-3484

**Label Required Indicator:** Y

**Date Label Reviewed:** 05/19/2001

**Status Code:** A

**Manufacturer's Label Number:**

**Date of Label:**

**Year Procured:** N/K

**Organization Code:** F

**Chronic Hazard Indicator:** Y

**Eye Protection Indicator:** YES

**Skin Protection Indicator:** YES

**Respiratory Protection Indicator:** YES

**Signal Word:** CAUTION

**Health Hazard:** Slight

**Contact Hazard:** Slight

**Fire Hazard:** None

**Reactivity Hazard:** None