

## Material Safety Data Sheet

### 1. PRODUCT IDENTIFICATION

■ Business Unit: Molecular Biology

■ Production Name: Plant Total RNA Mini

■ Catalogue Number: GPR1001

<u>Component:</u>	<u>Component Part Number</u>
RX Buffer	RXA0027
PRX Buffer	PRXA027
WF Buffer	WEC0030
WS Buffer	WSG0015
RNase-free dd H <sub>2</sub> O	RFDA015

■ Manufacturer/ Supplier: **VIOGENE BIOTEK CORP.**

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Sijhih Dist., New Taipei City, Taiwan, R.O.C.  
Tel: + 886 2 26472259

■ Preparation Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_

■ Contact / Preparatory: Abbie Lee

■ Information Number: + 886 2 2647 2259

**[NOTE:]** The emergency number to be used particularly in emergencies involving a non-specific accident spill, leak, fire or exposure.

### 2. COMPOSITION / DATA ON COMPONENTS

■ Chemical characterization

■ Description: Mixture of the substances with non-hazardous additions as below listed.

### 3. HAZARDS IDENTIFICATION

■ *Potential health effects:*

**Eyes:** Can cause moderate irritation, tearing and redeeming, but not likely to permanently injure eye tissue.

**Skin:** Can cause moderate skin irritation, defeating, and dermatitis. Not likely to cause permanent damage.

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**Inhalation:** Can cause moderate respiratory irritating, dizziness, weakness, fatigue, No toxicity expected from inhalation.

**Ingestion:** Irritating to mouth, throat, and stomach. can cause abdominal discomfort, nausea, vomiting and diarrhea.

**Chronic:** No data on cancer.

### 4. FIRST AID MEASURES (CONT.)

■ *Potential health effects:*

**Eyes:** Flush eyes with plenty of water for at least 20 minutes retracting eyelids often.  
Tilt the head to prevent chemical from transferring to the uncontaminated eye.  
Get immediate medical attention.

**Skin:** Wash with soap and water. Remove contaminated clothing and launder.  
Set medical attention if irritation develops or persists.

**Inhalation:** Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen.  
If not breathing, give artificial respiration and have a trained individual administer oxygen.  
Get medical attention immediately.

### 5. FIRE FIGHTING MEASURES

■ Upper Flammable Limit %: N/A

■ Lower Flammable Limit %: N/A

■ Autoignition temperature Deg. C.: N/A

■ *Extinguishing media:* Not combustible. Use extinguishing media appropriate for surrounding fire.  
Use water spray/ fog for cooling.

**[NOTE:] Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products.**

### 6. ACCIDENTAL RELEASE MEASURES

■ Equipment following the recommendation of section at a minimum.

■ Dike with suitable absorbent material like granulated clay.

■ Gather and store in a sealed container pending a waste disposal evaluation.

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### 7. HANDLING AND STORAGE

- Storage at room temperature, and keep closed or cover when not in use.

### 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

- *Engineering controls:* No exposure limits exist for the constituents of this products. Use local exhaust ventilation or other engineering controls to minimize exposures and maintain operator comfort.

- *Personal protection:*

**Eyes:** Safety glasses should be the minimum eye protection.  
Wear sealed goggles.

**Skin:** Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating. Having a safety shower available.

### 9. PHYSICAL AND CHEMICAL PROPERTIES:

N/A

### 10. STABILITY AND REACTIVITY (CONT.)

- Stable under normal conditions:
- *Conditions to avoid:* Strong oxidizing agents. High temperatures.

### 11. TOXICOLOGICAL INFORMATION

- *Personal protection:*

**Eyes:** Irritating effect.

**Skin:** Irritant to skin and mucous membranes.

**Sensitization:** No sensitizing effects known.

**Additional toxicological information:** The product is no subject to classification according to internally approved calculation methods for preparations.

### 12. ECOLOGICAL INFORMATION:

N/A

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### 13. DISPOSAL CONSIDERATIONS:

N/A

### 14. TRANSPORT INFORMATION:

#### DOT

Proper Shipping Name: None

Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

#### IATA

Non-Hazardous for Air Transport: Non-hazardous for air transport.

### 15. REGULATORY INFORMATION:

N/A

### 16. OTHER INFORMATION:

■ **Other Comment:** N/A – Not available or no information.

■ **Disclaimer:** This information contained herein is based upon our efforts to acknowledge. However, we do not warrant the accuracy of this information. In no case shall VIOGENE does constitute a warranty for incidental or consequential damages, including lost profits.