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## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1 Identification of the substance/preparation

**Product name** : Nuclease-Free Water (EzRNA™ T7 High Yield RNA Synthesis Kit (Ψ-UTP))

**Product code** : PWNF10 (IT1100)

**Recommended use** : For laboratory use.

### 1.2 Company/Undertaking identification

SMOBIO Technology, Inc.

3F, No. 15, Industry E. 9th Rd., Hsinchu Science Park, Hsinchu 300096, Taiwan

Tel : +886 3 5799292

Fax : +886 3 5790202

E-mail : support@smobio.com

### 1.3 Emergency telephone number

**Emergency telephone** : +886 3 5799292 (09.00-18.00 TST)

## 2. Hazards identification

### 2.1 Classification of the substance or mixture

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS) Classification to Regulation (EC) No 1272/2008

### 2.2 Label elements

**Symbol(s)** : Void

**Signal Word** : Not dangerous

### 2.3 Other information

**Hazards deriving from physical-chemical properties** : The data available do not support any physical or chemical hazard.

**Human health hazards** : The data available do not support any human health hazard.

**Environmental hazards** : The data available do not support any environmental hazard.

## 3. Composition/information on ingredient

### 3.1 Ingredients

No ingredients are dangerous or their concentrations do not exceed the limits specified in the EU directive 1272/2008/EC.

### 3.2 Additional information

For the wording of the listed risk phrases refer to section 16.

## 4. First aid measures

### 4.1 General information

No special measures required.

### 4.2 Description of first aid measures

**In case of ingestion** : If swallowed, rinse mouth and throat thoroughly with water. Consult a doctor in the event of any complaints.

**In case of inhalation** : If inhaled, remove victim from area of exposure. If symptoms of irritation or respiratory allergy occur, consult a doctor.

**In case of skin contact** : Generally, the product does not irritate the skin. If symptoms of irritation after prolonged exposure occur, consult a doctor.

**In case of eye contact** : Wash out opened eyes with plenty of water for several minutes. Consult a doctor in event of any complaints.

## 5. Fire fighting measures

### 5.1 Suitable extinguishing agents

Water spray, Carbon dioxide ($CO_2$), dry chemical powder or appropriate foam.

### 5.2 Not suitable extinguishing agents

None.

### 5.3 Special exposure hazards from decomposition products

Not thoroughly investigated.

### 5.4 Protective equipment

Wear self-contained breathing apparatus and protective clothing.

## 6. Accidental release measures

**6.1 Personal precautions**

Wear appropriate gloves (see Section 8), safety glasses to clean small releases/spillage.
In case of vapor/aerosol formation, wear suitable respiratory protection means. Ventilate the area.

**6.2 Environmental precautions**

No special measures required.

**6.3 Methods for cleaning up**

Absorb spillages with liquid-binding material. Ventilate and wash the area after the spillage is completely removed.

**6.4 Additional information**

No dangerous substances are released.

## 7. Handling and storage

**7.1 Handling**

No further requirements. Use appropriate personal protection measures (see Section 8). Avoid any contact with the liquid. Avoid the formation of aerosols. Ventilate area.

**7.2 Storage**

Keep container tightly closed in a dry and well-ventilated place.

## 8. Exposure controls/personal protection

**8.1 Control parameters**

Contains no substances with occupational exposure limit values.

**8.2 Exposure controls**

**Engineering measures** : No specific requirements relating to the preparation.

**8.3 Personal protection**

**Respiratory protection** : No special measures required.

**Hand protection** : Wear rubber gloves. No special requirements to rubber.

**Eye protection** : Safety glasses (goggles) are recommended during ordinary operations with the preparation.

**Skin protection** : The usual precautionary measures accepted in research laboratories, e.g. protective clothes (gowns). No specific requirements.

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**Appearance:** Liquid.

**Color:** Colorless

**Odor:** Odorless.

**pH-value :** 8.

**Boiling point:** 100°C.

**Flash Point:** Not applicable.

**Flammability / autoflammability:** The preparation is not flammable/self-igniting.

**Explosive properties:** The preparation does not possess explosive properties.

**Oxidizing properties:** Not applicable.

**Vapor pressure:** Not applicable.

**Relative density at 20°C:** ~1.03 g/$cm^3$.

**Solubility in/miscibility with water:** Fully miscible.

**Fat solubility:** Not applicable.

**Vapor density:** Not applicable.

**Evaporation rate:** Not applicable.

**Conductivity:** Not applicable.

**Viscosity:** Not viscous.

### 9.2 Other information

No further relevant information available.

## 10. Stability and reactivity

### 10.1 Stability

Stable under storage conditions (see section 7).

### 10.2 Reactivity

No information available.

### 10.3 Possibility of hazardous reactions

No dangerous reactions known.

### 10.4 Conditions to avoid

No conditions which may cause dangerous reactions.

### 10.5 Incompatible materials

No in particular.

### 10.6 Hazardous decomposition products

No dangerous decomposition products known.

## 11. Toxicological information

### 11.1 Information on toxicology effects

**Acute toxicity:**

Not hazardous.

**Inhalation:**

Inhalation of aerosols may cause allergic type reactions in sensitized individuals.

**Ingestion:**

Repeated ingestion or excessive dosage may cause irritation of the gastrointestinal tract.

**Skin and eye contact:**

Product does not irritate the skin and eyes.

**Chronic toxicity:**

Product does not present a chronic toxicity hazard based on known or supplied information.

**Carcinogenic effects:**

Product does not present a carcinogenic effects based on known or supplied information.

**Mutagenic effects:**

Product does not present a c mutagenic effects based on known or supplied information.

**Reproductive toxicity:**

Product does not present a reproductive toxicity hazard based on known or supplied information.

**Sensitization:**

Product does not present a sensitization hazard based on known or supplied information.

**Target organ effects:**

Product does not present a target organ effects based on known or supplied information.

## 12. Ecological information

### 12.1 Ecotoxicity

The preparation is considered not dangerous to the environment with respect to mobility, persistence and degradability, bioaccumulation, aquatic toxicity and other data relating to ecotoxicity.

### 12.2 Persistence and degradability

No information is available.

### 12.3 Bioaccumulative potential

There is no data for this product.

**12.4 Other adverse effects**

Not applicable.

## 13. Disposal consideration

**13.1 Waste treatment methods**

**Waste from residues / unused products:** Dispose of in accordance with local regulation.

**Contaminated packaging:** Do not reuse empty containers.

## 14. Transport information

**IMDG/IMO:** Non-hazardous for sea freight.

**RID:** Non-hazardous for rail transport.

**ARD:** Non-hazardous for road transport.

**ICAO/IATA:** Non-hazardous for air transport.

## 15. Regulatory information

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

No information available.

**15.2 Chemical safety assessment**

No information available.

**15.3 Regulatory information**

**US：**

**Labelling according to US Regulations:** Caution: Avoid contact and inhalation.

**US Regulatory information:** SARA LISTED: No.

**EU：**

**Labelling according to EU Guidelines:** The preparation is not dangerous within the meaning of Directives 1272/2008/EC, and is not labelled with danger symbols or indications of danger.

**Canada：**

**WHMIS classification:** This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

**DSL:** No.

**NDSL:** No.

## 16. Other information

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. SMOBIO shall not be held liable for any damage resulting from handling or from contact with the above product.