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## Material Safety Data Sheet

(The format of the MSDS complies with Commission Directive 2001/58/EC as amended.)

### 1. IDENTIFICATION OF THE PREPARATION/SUBSTANCE AND OF THE COMPANY

**Preparation Name:** GetClone™ PCR Cloning Vector

**Catalogue numbers of the product:** CV1000

#### Use of the preparation:

For laboratory use.

#### Company identification:

SMOBIO Technology, Inc.

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### 2. COMPOSITION/ INFORMATION ON INGREDIENTS

<b>Components:</b>	pGet1.1 vector	23 µl
	pGet-For Primer (10µM)	100 µl
	pGet-Rev Primer (10µM)	100 µl

#### Ingredients:

Tris	< 1% (w/v)	EC#201-064-4	CAS#77-86-1
EDTA	< 1% (w/v)	EC#200-449-4	CAS#60-00-4

#### Other components:

Components not listed here are not dangerous or their concentrations do not exceed the limits specified in the EU directive 1999/45/EC.

**Additional information:** For the wording of the listed risk phrases refer to section 16.

### **3. HAZARDS IDENTIFICATION**

The preparation is not classified as dangerous according to Directive 1999/45/EC or Directive 67/548/EC, and is not labeled with danger symbols or indications of danger.

#### **Hazards deriving from physical-chemical properties:**

The data available do not support any physical or chemical hazard.

#### **Human health hazards:**

Inappropriate handling may cause formation of aerosols. Inhalation of aerosols may cause allergic type reactions in sensitized individuals. Prolonged skin contact may cause minor irritation.

**Caution:** Avoid inhalation, ingestion, and skin contacts.

#### **Environmental hazards:**

The data available do not support any environmental hazard.

### **4. FIRST-AID MEASURES**

#### **Ingestion:**

If swallowed, rinse mouth and throat thoroughly with water. Consult a doctor in event of any complaints.

#### **Inhalation:**

If inhaled, remove victim from area of exposure. If symptoms of irritation or respiratory allergy occur, consult a doctor.

#### **Skin contact:**

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

#### **Eye contact:**

In case of contact, wash out opened eyes with plenty of water for several minutes. Consult a doctor in event of any complaints.

## **5. FIRE-FIGHTING MEASURES**

The preparation cannot cause fire.

### **Suitable extinguishing agents:**

Water spray, Carbon Dioxide, dry chemical powder or appropriate foam.

### **Not suitable extinguishing agents:**

None.

### **Special exposure hazards from decomposition products:**

Not thoroughly investigated.

### **Protective equipment:**

Wear self-contained breathing apparatus and protective clothing.

## **6. ACCIDENTAL RELEASE MEASURES**

### **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.

### **Environmental precautions:**

No special measures required.

### **Methods for cleaning up:**

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

### **Additional information:**

No dangerous substances are released.

## **7. HANDLING AND STORAGE**

### **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.

### **Storage:**

Store at - 20°C.

No other specific requirements relating to the preparation.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that need to be monitored at the workplace.

### **General protective and hygienic measures:**

The usual precautionary measures are the same as for chemicals handling.

### **Engineering measures:**

No specific requirements relating to the preparation.

### **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

**Appearance:** Liquid.

**Color:** Clear.

**Odor:** Odorless.

**pH-value at 25°C:** 8.0.

**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 g/cm<sup>3</sup>.

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

**Fat solubility:** Not applicable.

**Vapor density:** Not applicable.

**Evaporation rate:** Not applicable.

**Conductivity:** Not applicable.

**Viscosity:** Not applicable.

## 10. STABILITY AND REACTIVITY

### **Stability:**

Stable under storage conditions (see Section 7).

### **Conditions to avoid:**

No conditions which may cause dangerous reactions.

### **Possibility of hazardous reactions:**

No dangerous reactions known.

### **Materials to avoid:**

No materials which may cause dangerous reactions.

### **Hazardous decomposition products:**

No dangerous decomposition products known.

### **Hazardous polymerization:**

Will not occur.

## 11. TOXICOLOGICAL INFORMATION

### **Routes of exposure:**

**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:** Generally, the product does not irritate the skin and eyes. Prolonged skin or eye contact may cause minor irritation.

### **Additional toxicological information:**

When used and handled according to specifications, the product does not have any harmful effects.

The product is not listed in a priority list as foreseen under Council Regulation (EEC) No 793/93 on the evaluation and control of the risks of the existing substances.

## **12. ECOLOGICAL INFORMATION**

### **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.

### **Persistence and degradability:**

The preparation is readily biodegradable.

### **Bioaccumulative potential:**

It is considered that the preparation does not accumulate in biota, and does not pass through the food chain.

### **Other adverse effects:**

Not applicable.

## **13. DISPOSAL CONSIDERATIONS**

The disposal of the product does not present a danger.

No special disposal methods required, except to be in accordance with current local environmental regulations.

## **14. TRANSPORT INFORMATION**

### **Special precautions:**

Not applicable.

### **Proper shipping name:**

Not dangerous goods according to transport regulations.

### **National transport regulations:**

No additional national transport regulations are known to the supplier.

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

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

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

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

### **Other information:**

The preparation may be stored in ice during the transportation.

## 15. 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 67/548/EC, 1999/45/EC, and 88/379/ECC, 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.

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