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

# 1.1 Identification of the substance/preparation

**Product name**: ExcelTaq<sup>™</sup> 2X Q-PCR Master Mix

Product code: TQ1100 / TQ1101 / TQ1110

Recommended use: For laboratory use. Suitable for DNA dependent DNA polymerization /

amplification.

## 1.2 Company/Undertaking identification

SMOBIO Technology, Inc.

3F, No.15, Industry E. 9th Rd., Science-Based Industrial Park, Hsinchu City 30075,

Taiwan (R.O.C.)

Tel: +886 3 5799292

Fax: +886 3 5790202

E-mail: <u>support@smobio.com</u>

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: 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.



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## 3. Composition/information on ingredient

## 3.1 Ingredients

Chemical name	Concentration	EC No.	CAS No.	Classification
Glycerol	< 20 %	200-289-5	56-81-5	Not classified
(NH <sub>4</sub> )SO <sub>4</sub>	< 1 %	231-984-1	7783-20-2	Not classified
KCI	< 1 %	231-211-8	7447-40-7	Not classified

#### 3.2 Other components

Components not listed here are not dangerous or their concentrations do not exceed the limits specified in the EU directive 1272/2008/EC.

## 3.3 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 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<sub>2</sub>), 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



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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

Store at - 20°C. No other specific requirements relating to the preparation.

#### 8. Exposure controls/personal protection

#### 8.1 Control parameters

Chemical name	CAS No.	<b>Exposure limits</b>
Glycerol	56-81-5	TWA: 10 mg/m <sup>3</sup>
KCI	7447-40-7	No data available
(NH <sub>4</sub> )SO <sub>4</sub>	7783-20-2	No data available

## **8.2 Exposure controls**

**Engineering measures**: Ensure adequate ventilation, especially in confined areas.

## 8.3 Personal protection

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

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



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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: Blue.

Odor: Odorless or weak. pH-value at 25°C: ~8.5. 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: Slightly 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.



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#### 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:

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

Chemical nameLD50 OralLD50 DermalGlycerol12600 mg/kg(Rat)21900 mg/kg(Rat)

KCI 2600 mg/kg (Rat)

#### 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



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#### 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

The preparation is readily biodegradable.

## 12.3 Bioaccumulative potential

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

# 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:** Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 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.

Other information: The preparation may be stored in ice during the transportation.

## 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.



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# 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

# 16.1 Full text of R-phrases referred to under sections 3

R36-38: Irritating to eyes, respiratory system and skin.

# 16.2 Full text of physical and health hazards referred to under sections 3

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

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.