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

## 1.1 Identification of the substance/preparation

Product name: ExcelBand™ 1KB (0.25-10 kb) DNA Ladder

Product code: DM3100

**Recommended use**: For laboratory use. Suitable for use as molecular weight standards

for agarose gel electrophoresis.

## 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: <a href="mailto:support@smobio.com">support@smobio.com</a>
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

<u>Chemical name</u> <u>Concentration</u>		EC No.	AS No.	Classification
Glycerol	10-25 %	200-289-5	56-81-5	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

Wear self-contained breathing apparatus and protective clothing.



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#### 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

<u>Chemical name</u> <u>CAS No.</u> <u>Exposure limits</u> Glycerol 56-81-5 TWA: 10 mg/m<sup>3</sup>

## 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.



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## 9. Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

**Appearance:** Liquid.

Color: Blue.
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 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.



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## 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)

## 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.



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## 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.

## 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



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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.