

## MATERIAL SAFETY DATA SHEET According to EC Directive 91/155 EC Date: 01/08/10

### Section 1: Identification of the substance/preparation and of the company/undertaking

#### Product Details

##### Catalogue Numbers and trade name:

CM3111-0010	CelGREEN Universal qPCR mix, 2x
CM3111-0200	CelGREEN Universal qPCR mix, 2x
CM3111-0500	CelGREEN Universal qPCR mix, 2x
CM3111-1000	CelGREEN Universal qPCR mix, 2x
CM3311-0020	CelProbe Universal qPCR mix, 2x
CM3311-0200	CelProbe Universal qPCR mix, 2x
CM3311-0500	CelProbe Universal qPCR mix, 2x
CM3311-1000	CelProbe Universal qPCR mix, 2x

##### Kit Components:

CelGREEN Universal qPCR mix, 2x  
CelProbe Universal qPCR mix, 2x  
ROX Additive, 50µM  
CelProbe Universal qPCR mix, 2x

#### Company Details

**Manufacturer/Supplier:** Celtic Molecular Diagnostics Pty Ltd  
**Address:** Greenford Office Estate  
Section 32, Ground Floor, Block Q  
Punter's Way  
Kenilworth  
Cape Town  
South Africa  
7700

**Contact details:** E-mail: [info@celticmolecular.com](mailto:info@celticmolecular.com)  
Tel: + 27 21 762 7703  
Fax: + 27 86 6569 568

#### Emergency Details

Celtic Molecular Diagnostics      English speaking      Tel: + 27 21 762 7703  
**Address:** Greenford Office Estate  
Section 32, Ground Floor, Block Q  
Punter's Way  
Kenilworth  
Cape Town  
South Africa  
7700

### Section 2: Hazards identification

## Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008:** The product is not classified according to the CLP regulation.

**Classification according to Directive 67/548/EEC or Directive 1999/45/EC:** Void

### Information concerning particular hazards for human and environment:

The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

### Classification system:

The classification was made according to the latest editions of the EU-lists and expanded upon from company and literature data.

## Label elements

### Labelling according to EU guidelines:

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (GefStoffV).

### Safety phrases:

35 This material and its container must be disposed of in a safe way.

## Other hazards

**Results of PBT and vPvB assessment:** PBT: Not applicable.  
vPvB: Not applicable.

## Section 3: Composition/information on ingredients

### Chemical characterization: Mixtures

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

**Dangerous components:**

CAS: 67-68-5
EINECS: 200-664-3
Dimethyl sulfoxide 5-10%
CAS: 65-81-5
EINECS: 200-289-5
Glycerol 1.0-2.5%
Eye Irrit. 2, H319
1.0-2.5%

### Additional information

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

## Section 4: First aid measures

### Description of first aid measures

<b>General information</b>	No special measures required.
<b>After inhalation</b>	Supply fresh air; consult doctor in case of complaints.
<b>After skin contact</b>	Generally the product does not irritate the skin.
<b>After eye contact</b>	Rinse opened eye for several minutes under running water.
<b>After swallowing</b>	Induce vomiting and call for medical help.

## Information for doctor

**Most important symptoms and effects, both acute and delayed.** No further relevant information available.

**Indication of any immediate medical attention and special treatment needed.** No further relevant information available.

## Section 5: Firefighting measures

### Extinguishing media

#### Suitable extinguishing agents

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**Special hazards arising from the substance or mixture.** No further relevant information available.

### Advice for firefighters

**Protective equipment:** No special measures required.

## Section 6: Accidental release measures

**Personal precautions, protective equipment, and emergency procedures:** Not required.

**Environmental precautions:** Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.

#### Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13.

#### Reference to other sections:

No dangerous substances are released.  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## Section 7: Handling and storage

### Handling

**Precautions for safe handling:** No special measures required.

**Information about protection against explosions and fires:** No special measures required.

Conditions for safe storage, including any incompatibilities.

### Storage

**Requirements to be met by storerooms and receptacles:** According to product specification.

**Information about storage in one common storage facility:** Not required.

**Further information about storage conditions:** None.

**Specific end use(s):** No further relevant information available.

## Section 8: Exposure controls/personal protection

**Additional information about design of technical systems:** No further data; see item 7.

## Control parameters

### Components with limit values that require monitoring at the workplace:

Proprietary Reagent RFI WEL () Short-term value: 20 mg/m<sup>3</sup> Long-term value: 10 mg/m<sup>3</sup>  
56-81-5 glycerol WEL () Long-term value: 10 mg/m<sup>3</sup>

**Additional information:** The lists that were valid during the creation were used as basis.

## Exposure controls

### Personal protective equipment

#### General protective and hygienic measures

The usual precautionary measures should be adhered to when handling chemicals.

**Breathing equipment:** Not required.

**Protection of hands:** Protective gloves.

**Material of gloves** Synthetic gloves

#### Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:** Safety glasses

## Section 9: Physical and chemical properties

### Information on basic physical and chemical properties

#### General Information

<b>Appearance:</b>	Form: Fluid
<b>Colour:</b>	Colourless
<b>Odour:</b>	Odourless
<b>Odour threshold:</b>	Not determined.
<b>pH-value:</b>	Not determined.
<b>Change in condition</b>	Melting point/Melting range: undetermined. Boiling point/Boiling range: 100°C
<b>Flash point:</b>	> 55°C
<b>Flammability (solid, gaseous)</b>	Not applicable.
<b>Ignition temperature:</b>	270°C
<b>Decomposition temperature:</b>	Not determined.
<b>Self-igniting:</b>	Product is not self-igniting.
<b>Danger of explosion:</b>	Product does not present an explosion hazard.
<b>Explosion limits:</b>	Lower: 1.8 Vol % Upper: 63.0 Vol %
<b>Vapour pressure at 20°C:</b>	23 hPa
<b>Density:</b>	Not determined
<b>Relative density:</b>	Not determined.
<b>Vapour density:</b>	Not determined.
<b>Evaporation rate:</b>	Not determined.
<b>Solubility in / Miscibility with Water:</b>	Fully miscible
<b>Segregation coefficient (n-octanol/water):</b>	Not determined.
<b>Viscosity:</b>	dynamic: Not determined. kinematic: Not determined.
<b>Solvent content:</b>	Organic solvents: 12.0 % Water: 71.3 %
<b>Solids content:</b>	16.7 %
<b>Other information:</b>	No further relevant information available.

## Section 10: Stability and reactivity

### Reactivity

#### Chemical stability

**Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

**Possibility of hazardous reactions:** No dangerous reactions known.

**Conditions to avoid:** No further relevant information available.

**Incompatible materials:** No further relevant information available.

**Hazardous decomposition products:** No dangerous decomposition products known.

## Section 11: Toxicological information

### Information on toxicological effects

#### Acute toxicity:

**LD/LC50 values that are relevant for classification:** 67-68-5 dimethyl sulfoxide  
Oral LD50 14500 mg/kg (rat)

**Primary irritant effect:** on the skin: No irritant effect.  
on the eye: No irritating effect.  
Sensitization: No sensitizing effects known.

#### Additional toxicological information:

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

## Section 12: Ecological information

### Toxicity

**Aquatic toxicity:** No further relevant information available.

**Persistence and degradability:** No further relevant information available.

**Behaviour in environmental systems:**

**Bioaccumulative potential:** No further relevant information available.

**Mobility in soil:** No further relevant information available.

#### Additional ecological information:

##### General notes:

**Water hazard class 1 (German Regulation) (Self-assessment):** slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**Results of PBT and vPvB assessment** PBT: Not applicable.  
vPvB: Not applicable.

**Other adverse effects:** No further relevant information available.

## Section 13: Disposal considerations

### Waste treatment methods

#### Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

**Uncleaned packagings:**

**Recommendation:** Disposal must be made according to official regulations.  
**Recommended cleansing agent:** Water, if necessary with cleansing agents.

### Section 14: Transport information

**Maritime transport IMDG:**

**Marine pollutant:** No

**Special precautions for user:** Not applicable.

**Transport/Additional information:** Not dangerous according to the above specifications.

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not applicable.

### Section 15: Regulatory information

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

**National regulations**

**Technical instructions (air):** Class Share in %  
NK 10-20

**Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### Section 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.