

## 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 names:

CM3711-0040	CelEct Virus Universal Probe One-step kit
CM3711-0200	CelEct Virus Universal Probe One-step kit
CM3711-0600	CelEct Virus Universal Probe One-step kit
CM3711-1000	CelEct Virus Universal Probe One-step kit

**Kit Components:** 4x CelEct Virus Universal Probe One-step mix  
20x CelScript Reverse Transcriptase  
ROX Additive (50µM)

#### 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  
Tel: + 27 21 762 7703  
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#### 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

**Tradename:** CelEct Virus Universal Probe One-step kit

#### 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.

<b>Dangerous components:</b>	CAS: 67-68-5
	EINECS: 200-664-3
	Dimethyl sulfoxide 5-10%
	CAS: 126-33-0
	EINECS: unclassified
	Sulfolane 5-10%
	CAS: 56-81-5
	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 RF I

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.

<b>Breathing equipment:</b>	Not required.
<b>Protection of hands:</b>	Protective gloves.
<b>Material of gloves</b>	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.

<b>Eye protection:</b>	Safety glasses
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## 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:**

**LC50 – Oral** mouse – 1900 mg/kg

**LC50 – Dermal** rat - > 3800 mg/kg

**Skin corrosion/irritation** - no data available

**Serious eye damage/eye irritation**

Eyes - rabbit - Mild eye irritation

**Respiratory or skin sensitization** - no data available

**Germ cell mutagenicity** - no data available

**Carcinogenicity**

**IARC:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**Reproductive toxicity** - no data available

**Specific target organ toxicity** - single exposure no data available

**Specific target organ toxicity** - repeated exposure no data available

**Aspiration hazard** - no data available

### Potential health effects

**Inhalation** May be harmful if inhaled. May cause respiratory tract irritation.

**Ingestion** Harmful if swallowed.

**Skin** May be harmful if absorbed through skin. May cause skin irritation.

**Eyes** Causes eye irritation.

**Signs and Symptoms of Exposure**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## Section 12: Ecological information

### Toxicity

**Acquatic 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.

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

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**Kit Components:** 4x CelEct Virus Universal Probe One-step mix  
20x CelScript Reverse Transcriptase  
ROX Additive (50µM)

#### Company Details

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Kenilworth  
Cape Town  
South Africa  
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### Section 2: Hazards identification

**Tradename:** 20x CelScript Reverse Transcriptase

#### 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.





## 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 RF I

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 %
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<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

**Acquatic 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

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