

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

Trade Names: Celtic dNTP mix, 10mM each
Celtic dNTP mix, 25mM each

Catalogue Numbers: CM1110-0001
CM1120-00.05

Kit Components: dNTP mix, 10mM each
dNTP mix, 25mM each

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

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.

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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: 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

General information

No special measures required.

After inhalation

Supply fresh air; consult doctor in case of complaints.

After skin contact

Generally the product does not irritate the skin.

After eye contact

Rinse opened eye for several minutes under running water.

After swallowing

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

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CO₂, 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 WEL () Short-term value: 20 mg/m³ Long-term value: 10 mg/m³
56-81-5 glycerol WEL () Long-term value: 10 mg/m³

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

Appearance:	Form: Fluid
Colour:	Colourless
Odour:	Odourless
Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition	Melting point/Melting range: undetermined. Boiling point/Boiling range: 100°C
Flash point:	> 55°C
Flammability (solid, gaseous)	Not applicable.
Ignition temperature:	270°C
Decomposition temperature:	Not determined.
Self-igniting:	Product is not self-igniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	Lower: 1.8 Vol % Upper: 63.0 Vol %
Vapour pressure at 20°C:	23 hPa
Density:	Not determined
Relative density:	Not determined.
Vapour density:	Not determined.
Evaporation rate:	Not determined.
Solubility in / Miscibility with Water:	Fully miscible
Segregation coefficient (n-octanol/water):	Not determined.
Viscosity:	dynamic: Not determined. kinematic: Not determined.
Solvent content:	Organic solvents: 12.0 % Water: 71.3 %
Solids content:	16.7 %
Other information:	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

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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

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.