

## Material Safety Data Sheet According to 91/155 EEC

Printing date 19.01.2007

version number 11

Reviewed on 22.12.2006

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

\***Trade name:** REFERENCE ELECTRODE FILLING SOLUTION

\***Article number:** LKCL

\***Application of the substance / the preparation** Laboratory chemicals

\***Manufacturer/Supplier:**

Reagecon Diagnostics Ltd.

Shannon Free Zone,

Shannon,

Co. Clare,

IRL.

Tel +353 61 472622

Fax +353 61 472642

\***Further information obtainable from:** EMERGENCY CONTACT NUMBER :- 353-87-7976154

### 2 Composition/information on ingredients

\***Chemical characterization**

\***Description:** Mixture of substances listed below with nonhazardous additions.

\***Additional information:** For the wording of the listed risk phrases refer to section 16.

### 3 Hazards identification

\***Hazard description:** Not applicable.

\***Information concerning to particular hazards to man 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 is according to the latest editions of the EU-lists, and extended by company and literature data.

### 4 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:** If symptoms persist consult doctor.

### 5 Fire-fighting measures

\***Suitable extinguishing agents:**

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

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

IRL

(Contd. on page 2)

## Material Safety Data Sheet According to 91/155 EEC

Printing date 19.01.2007

version number 11

Reviewed on 22.12.2006

**Trade name: REFERENCE ELECTRODE FILLING SOLUTION**

(Contd. of page 1)

### 6 Accidental release measures

- \***Person-related safety precautions:** Not required.
- \***Measures for environmental protection:**  
Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.
- \***Measures for cleaning/collecting:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- \***Additional information:** No dangerous substances are released.

### 7 Handling and storage

- \***Handling:**PPE to be worn. See section 8
- \***Information for safe handling:** No special measures required.
- \***Information about fire - and explosion protection:** No special measures required.
- \***Storage:**
- \***Requirements to be met by storerooms and receptacles:** No special requirements.
- \***Information about storage in one common storage facility:** Not required.
- \***Further information about storage conditions:** None.

### 8 Exposure controls/personal protection

- \***Additional information about design of technical facilities:** No further data; see item 7.
- \***Ingredients with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- \***Additional information:** The lists valid during the making were used as basis.
- \***Personal protective equipment:**
- \***General protective and hygienic measures:**  
The usual precautionary measures are to be adhered to when handling chemicals.
- \***Respiratory protection:** Not required.
- \***Protection of hands:**  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- \***Material of gloves**  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- \***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.

(Contd. on page 3)

- IRL

**Material Safety Data Sheet**  
According to 91/155 EEC

Printing date 19.01.2007

version number 11

Reviewed on 22.12.2006

**Trade name: REFERENCE ELECTRODE FILLING SOLUTION**

*\*Eye protection: Goggles recommended during refilling*

(Contd. of page 2)

### 9 Physical and chemical properties

**\*General Information**

<b>Form:</b>	Liquid
<b>Colour:</b>	According to product specification
<b>Odour:</b>	Characteristic

**\*Change in condition**

**Melting point/Melting range:** Undetermined.  
**Boiling point/Boiling range:** 100°C

**\*Flash point:** Not applicable.

**\*Self-igniting:** Product is not selfigniting.

**\*Danger of explosion:** Product does not present an explosion hazard.

**\*Vapour pressure at 20°C:** 23.0 hPa

**\*Density at 20°C:** 1.22779 g/cm<sup>3</sup>

**\*Solubility/ miscibility with water:** Fully miscible.

**\*Solvent content:**  
**Organic solvents:** 0.0 %

### 10 Stability and reactivity

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

**\*Dangerous reactions** No dangerous reactions known.

**\*Dangerous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological information

**\*Acute toxicity:**

**\*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.

(Contd. on page 4)

## Material Safety Data Sheet According to 91/155 EEC

Printing date 19.01.2007

version number 11

Reviewed on 22.12.2006

**Trade name: REFERENCE ELECTRODE FILLING SOLUTION**

(Contd. of page 3)

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

### 12 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.

### 13 Disposal considerations

**\*Product:**

**\*Recommendation** Smaller quantities can be disposed of with household waste.

**\*Uncleaned packaging:**

**\*Recommendation:** Disposal must be made according to official regulations.

**\*Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### 14 Transport information

**\*Land transport ADR/RID (cross-border)**

**\*ADR/RID class:** -

**\*Maritime transport IMDG:**

**\*IMDG Class:** -

**\*Marine pollutant:** No

**\*Air transport ICAO-TI and IATA-DGR:**

**\*ICAO/IATA Class:** -

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

### 15 Regulatory information

**\*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 (German GefStoffV).

**\*National regulations:**

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

### 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.

(Contd. on page 5)

**Material Safety Data Sheet**  
**According to 91/155 EEC**

Printing date 19.01.2007

version number 11

Reviewed on 22.12.2006

**Trade name: REFERENCE ELECTRODE FILLING SOLUTION**

(Contd. of page 4)

**\*Department issuing MSDS:** Safety Officer

**\*Contact:** Mr. John O'Keeffe

IRL