

Printing 27.11.2023 version number 20 (replaces version 19) Revision: 27.11.2023

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

\*1.1 Product identifier

\*Trade name: REFERENCE ELECTRODE FILLING SOLUTION SATURATED POTASSIUM CHLORIDE

\*Article number: LKCL1
\*Registration number

A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

\*UFI: KY91-90MV-S00M-CFDE

\*1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

\*Application of the substance / the mixture Laboratory Chemicals

#### \*1.3 Details of the supplier of the safety data sheet

### \*Manufacturer/Supplier:

Reagecon Diagnostics Ltd.

Shannon Free Zone,

Shannon,

Co. Clare,

Ireland.

Tel +353 61 472622

Fax +353 61 472642

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Reagecon Diagnostics Ltd.

Shannon Free Zone,

Shannon,

Co. Clare,

Ireland.

Tel +353 61 472622

Fax +353 61 472642

#### \*Supplier:

BÜCHI Labortechnik AG

Meierseggstrasse 40

CH - 9230 Flawil

Telephone: +41 71 394 63 63 FAX: +41 71 394 65 65 Email: schweiz@buchi.com Internet: www.buchi.com

#### \*Further information obtainable by contacting: sds@reagecon.ie

#### \*1.4 Emergency telephone number:

National Poisons Information Centre: +353 (1) 809 2166 (8.00 a.m. to 10.00 p.m. 7 days a week)

Healthcare Professionals: +353 (1) 809 2566 (24 hour service)

For Hazardous Materials [or Dangerous Goods] Incident

Spill, Leak, Fire, Exposure, or Accident

Call CHEMTREC

For Ireland call +(353)-19014670

For Outside Ireland call +1 703-741-5970 / 1-800-424-9300 CCN849800

# SECTION 2: Hazards identification

- \*2.1 Classification of the substance or mixture
- \*Classification according to Regulation (EC) No 1272/2008

The product is not classified, according to the CLP regulation.

- \*2.2 Label elements
- \*Labelling according to Regulation (EC) No 1272/2008 Void
- \*Hazard pictograms Void

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- \*Signal word Void
- \*Hazard statements Void
- \*2.3 Other hazards
- \*Results of PBT and vPvB assessment
- \*PBT: Not applicable.
- \*vPvB: Not applicable.

# SECTION 3: Composition/information on ingredients

- \*3.2 Mixtures
- \*Description: Mixture of substances listed below with nonhazardous additions.
- \*Dangerous components: Void
- \*Additional information: For the wording of the listed hazard phrases refer to section 16.

# SECTION 4: First aid measures

- \*4.1 Description of first aid measures
- \*General information: No special measures required.
- \*After inhalation:

Provide fresh air, warmth and rest. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Obtain medical attention if any discomfort continues.

- \*After skin contact: Generally the product does not irritate the skin.
- \*After eve contact:

Promptly wash eyes with plenty of water for up to 15 minutes. Open eyes wide apart and rinse well to remove any contact lenses. Do not remove contact lenses by hand. Continue to rinse. Get medical attention if symptoms persist.

- \*After swallowing: If symptoms persist consult doctor.
- \*4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- \*4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

### **SECTION 5: Firefighting measures**

- \*5.1 Extinguishing media
- \*Suitable extinguishing agents:

Indications shall be given whether any extinguishing media are inappropriate for a particular situation involving the substance or mixture

*Use fire extinguishing methods suitable to surrounding conditions.* 

- \*5.2 Special hazards arising from the substance or mixture No further relevant information available.
- \*5.3 Advice for firefighters
- \*Protective equipment:

Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Avoid run off to waterways and sewers

#### SECTION 6: Accidental release measures

- \*6.1 Personal precautions, protective equipment and emergency procedures Not required.
- \*6.2 Environmental precautions:

Dilute with plenty of water.

Do not allow to enter sewers/surface or ground water.

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#### \*6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

#### \*6.4 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

- \*7.1 Precautions for safe handling No special measures required.
- \*Information about fire and explosion protection: No special measures required.
- \*7.2 Conditions for safe storage, including any incompatibilities
- \*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.
- \*7.3 Specific end use(s) No further relevant information available.

### SECTION 8: Exposure controls/personal protection

#### \*8.1 Control parameters

#### \*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.

#### \*8.2 Exposure controls

- \*Appropriate engineering controls No further data; see item 7.
- \*Individual protection measures, such as personal protective equipment
- \*General protective and hygienic measures:

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

\*Respiratory protection: Not required.

### \*Hand protection

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Always ensure that gloves are inspected before use.

Selection of protective gloves must include consideration of the penetration times along with rates of diffusion and degradation. The selected glove should comply with the specifications of EU Directive 89/686/EEC and the standard EN374 derived from it.

#### \*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.

#### \*Penetration time of glove material

In the absence of data above, the exact break through time has to be sourced from the manufacturer of the protective gloves and has to be observed.

#### \*Eye/face protection



Goggles recommended during refilling: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU)

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SECTION 9: Physical and chemical prope	ernes —
*9.1 Information on basic physical and chemical pr	roperties
General Information	
*Physical state	Liquid
*Colour:	According to product specification
*Odour:	Characteristic
*Odour threshold:	Not determined.
*Melting point/freezing point:	Undetermined.
*Boiling point or initial boiling point and boiling	
range	100 °C
*Flammability	Not applicable.
*Lower and upper explosion limit	11
*Lower:	Not determined.
*Upper:	Not determined.
*Flash point:	Not applicable.
*Decomposition temperature:	Not determined.
*pH	Not determined.
*Viscosity:	
*Kinematic viscosity	Not determined.
*Dynamic:	Not determined.
*Solubility	1101 determined.
*water:	Fully miscible.
*Partition coefficient n-octanol/water (log value)	Not determined.
*Vapour pressure at 20 °C:	23 hPa
*Density and/or relative density	23 m u
*Density and of relative density	$1.22779 \text{ g/cm}^3$
*Relative density	Not determined.
*Vapour density	Not determined.  Not determined.
v apour aensay	Not determined.
*9.2 Other information	
*Appearance:	
*Form:	Liquid
*Important information on protection of health and	l
environment, and on safety.	
*Auto-ignition temperature:	Product is not selfigniting.
*Explosive properties:	Product does not present an explosion hazard.
*Change in condition	
*Evaporation rate	Not determined.
*Information with regard to physical hazard classes	S
*Explosives	, Void
*Flammable gases	Void
*Aerosols	Void
*Oxidising gases	Void Void
*Gases under pressure	Void
	voia Void
*Flammable liquids *Elammable solide	vota Void
*Flammable solids	
*Self-reactive substances and mixtures	Void
*Pyrophoric liquids	Void
*Pyrophoric solids	Void
*Self-heating substances and mixtures	Void
*Substances and mixtures, which emit flammable	77.11
•	Void
gases in contact with water	
gases in contact with water *Oxidising liquids *Oxidising solids	Void Void Void



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*Corrosive to metals	Void
*Desensitised explosives	Void

# SECTION 10: Stability and reactivity

- \*10.1 Reactivity No further relevant information available.
- \*10.2 Chemical stability
- \*Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- \*10.3 Possibility of hazardous reactions No dangerous reactions known.
- \*10.4 Conditions to avoid No further relevant information available.
- \*10.5 Incompatible materials: No further relevant information available.
- \*10.6 Hazardous decomposition products: No dangerous decomposition products known.

# SECTION 11: Toxicological information

- \*11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- \*Acute toxicity Based on available data, the classification criteria are not met.
- \*Skin corrosion/irritation Based on available data, the classification criteria are not met.
- \*Serious eye damage/irritation Based on available data, the classification criteria are not met.
- \*Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- \*Germ cell mutagenicity Based on available data, the classification criteria are not met.
- \*Carcinogenicity Based on available data, the classification criteria are not met.
- \*Reproductive toxicity Based on available data, the classification criteria are not met.
- \*STOT-single exposure Based on available data, the classification criteria are not met.
- \*STOT-repeated exposure Based on available data, the classification criteria are not met.
- \*Aspiration hazard Based on available data, the classification criteria are not met.
- \*11.2 Information on other hazards
- \*Endocrine disrupting properties

None of the ingredients is listed.

### SECTION 12: Ecological information

- \*12.1 Toxicity
- \*Aquatic toxicity: No further relevant information available.
- \*12.2 Persistence and degradability No further relevant information available.
- \*12.3 Bioaccumulative potential No further relevant information available.
- \*12.4 Mobility in soil No further relevant information available.
- \*12.5 Results of PBT and vPvB assessment
- \*PBT: Not applicable.
- \*vPvB: Not applicable.
- \*12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- \*12.7 Other adverse effects
- \*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.



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# SECTION 13: Disposal considerations

- \*13.1 Waste treatment methods
- \*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.

SECTION 14: Transport information	ion
*14.1 UN number or ID number *ADR, ADN, IMDG, IATA	Void
*14.2 UN proper shipping name *ADR, ADN, IMDG, IATA	Void
*14.3 Transport hazard class(es)	
*ADR, ADN, IMDG, IATA	
*Class	Void
*14.4 Packing group *ADR, IMDG, IATA	Void
*14.5 Environmental hazards: *Marine pollutant:	No
*14.6 Special precautions for user	Not applicable.
*14.7 Maritime transport in bulk according instruments	<b>g to IMO</b> Not applicable.
*Transport/Additional information:	Not dangerous according to the above specifications.
*UN "Model Regulation":	Void

# **SECTION 15: Regulatory information**

- \*15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- \*Directive 2012/18/EU
- \*Named dangerous substances ANNEX I None of the ingredients is listed.
- \*DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment Annex II

None of the ingredients is listed.

- \*REGULATION (EU) 2019/1148
- \*Annex I RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

\*Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

\*Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

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\*Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

- \*National regulations:
- \*Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- \*15.2 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.

- \*Department issuing SDS: Health and Safety
- \*Contact: sds@reagecon.ie
- \*Date of previous version: 08.03.2019
  \*Version number of previous version: 19
- \*Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

REACH (Registration, Evaluation, Authorisation and restriction of Chemicals)

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

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