

# MATERIAL SAFETY DATA SHEET

Date Prepared: May, 2014  
Version No: 1

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## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

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Product Name: Reference Gel Electrolyte  
Product Code: RE45  
Other Names: Nil  
Uses: Analytical Reagent

Supplier: Ionode Pty Ltd  
12 Walker Street, Tennyson Qld 4105

Contacts: Telephone: 61 07 38481660  
Fax: 61 07 38481428  
Emergency Phone: 61 07 38481660

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## 2. HAZARDS INFORMATION

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**Hazard classification:** Non Hazardous. Non Dangerous Goods.

**Risk phrases:**

Not considered a hazard according to the criteria of NOHSC.

**Safety phrases:**

Not considered a hazard according to the criteria of NOHSC.

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## 3. COMPOSITION / INFORMATION ON INGREDIENTS

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**Ingredients :**

Chemical Entity	CAS No	Proportion
Potassium chloride	[7447-40-7]	26%
Triethylene glycol	[ 112-27-6 ]	21%
Hydroxyethyl cellulose	[9004-62-0]	2%
Water	[7732-18-5]	to 100%

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## 4. FIRST AID MEASURES

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Safety showers and eye wash facilities should be provided.

**Swallowed :**

If conscious wash out mouth with water. Seek medical advice. Show this MSDS to medical practitioner.

**Eye :**

Immediately hold eyelids open and flood with water for at least 15 minutes. Obtain medical aid. Show this MSDS to medical practitioner.

**Skin :**

Remove contaminated clothing. Immediately wash skin thoroughly with water and mild soap. Seek medical advice if irritation persists. Show this MSDS to medical practitioner. Launder clothing before reuse.

**Inhaled :**

Remove from contaminated air. Maintain breathing with artificial respiration if necessary. Seek medical assistance. Show this MSDS to a doctor.

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## 5. FIRE FIGHTING MEASURES

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### Suitable Extinguishing Media:

Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

### Hazards From Combustion Products:

Solution will not burn or support combustion. Decomposition products include oxides of carbon and potassium.

### Precautions For Fire Fighters and Special Protective Equipment:

Fire fighters and others who may be exposed to combustion products during fire should wear full protective clothing including positive pressure self-contained breathing apparatus (SCBA).

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## 6. ACCIDENTAL RELEASE MEASURES

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### Emergency procedures:

Prevent from entering waterways. Restrict access to area. Remove chemicals that can react with the spilled material.

### Methods and materials for containment and clean up:

Wear protective clothing when dealing with spills. Use inert material such as sand or earth to contain spill or leak. Absorb spills with chemical absorber or vermiculite and dispose of in accordance with local regulations.

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## 7. HANDLING AND STORAGE

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### Precautions for Safe Handling:

Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.

### Conditions for Safe Storage:

Store sealed in original container in a cool well ventilated situation away from foods and other chemicals. Do not store in direct sunlight. Observe good hygiene and housekeeping practices.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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### National Exposure Standards:

Worksafe – None known

**Biological Limit Values:** No data available.

### Engineering Controls:

Not required with normal use. If mists are likely to be generated maintain atmospheric concentrations to minimal levels with extraction ventilation.

### Personal Protective Equipment (PPE):

The use of nitrile or neoprene gloves complying with AS 2161 and the use of faceshield, chemical goggles or safety glasses with side shield protection complying with AS/NZS 1337 is recommended.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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<b>Appearance :</b>	Clear gel
<b>Odour:</b>	Nil
<b>pH:</b>	7
<b>Boiling Point (°C) :</b>	Not known
<b>Freezing/melting Point:</b>	Not known
<b>Vapour Pressure (mm of Hg @ 25°C) :</b>	Not known
<b>Vapour Density:</b>	Not applicable
<b>Specific Gravity :</b>	Not known
<b>Flash Point (°C) :</b>	Not flammable
<b>Flammability Limits (%) :</b>	Not flammable
<b>Solubility in Water (g/L) :</b>	Soluble

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## 10. STABILITY AND REACTIVITY

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**Chemical stability:**

Stable.

**Conditions to avoid:**

Excessive heat.

**Incompatible materials:**

Materials that react with water

**Hazardous decomposition products:**

Refer to section 5 (Fire Fighting Measures).

**Hazardous reactions:**

Hazardous polymerization will not occur.

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## 11. TOXICOLOGICAL INFORMATION

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**Health Effects:**

**Swallowed** : May be irritating to tissue. May be harmful by if swallowed. Ingestion of large quantities may cause vomiting, diarrhoea. Ingestion of large quantities may cause heart condition due to high potassium level. For triethylene glycol LDLo Oral Human 5000 mg/kg

**Eye** : May be irritating to eye tissue.

**Skin** : May be irritating to skin tissue. May be harmful by skin absorption.

**Inhaled** : May be irritating to respiratory tissue.

**Chronic Effects:** May be harmful with repeated or prolonged exposure.

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## 12. ECOLOGICAL INFORMATION

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**Ecotoxicity:**

No data available.

**Persistence and degradability:**

No data available.

**Mobility:**

No data available.

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## 13. DISPOSAL CONSIDERATIONS

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Contact a licensed professional waste disposal service to dispose of this material. Observe all federal, state and local environmental regulations.

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## 14. TRANSPORT INFORMATION

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**UN Number:** Not applicable

**UN Proper Shipping Name:** Not applicable

**Class and subsidiary risk(s):** Not applicable

**Packing Group:** Not applicable

**Hazchem Code:** Not applicable

**Special precautions for user** : Nil

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## **15. REGULATORY INFORMATION**

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**Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP):**  
Not Scheduled

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## **16. OTHER INFORMATION**

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