

**PRODUCT IDENTIFICATION:**ROSS Reference Electrode Filling Solution  
110007

PRODUCT USE: Reagent

NFPA RATINGS: HEALTH: 0 FLAMMABILITY: 0 REACTIVITY: 0

**II. COMPOSITION/INFORMATION ON INGREDIENTS**

COMPONENT		%	LD <sub>50</sub> mg/kg
COMPONENT	FD&C Yellow No. 5		
CAS NO.	1934-21-0	<0.1	12,750 (ORL-MUS)
COMPONENT	FD&C Red No. 40		
CAS NO.	25956-17-6	<0.1	None listed
COMPONENT	Potassium Chloride (KCl)		
CAS NO.	7447-40-7	<22	2,500 (ORL-GPG)
COMPONENT	Triton X-100 (C <sub>33</sub> H <sub>58</sub> O <sub>11</sub> )		
CAS NO.	9036-19-5	<0.1	1,800 (ORL-RAT)
COMPONENT	Water		
CAS NO.	7732-18-5	<78	190,000 (IPR-MUS)

**III. HAZARDS IDENTIFICATION**

None

**IV. FIRST AID MEASURES**

EYE AND SKIN CONTACT: Not hazardous

INGESTION: May cause an electrolyte imbalance if swallowed

INHALATION: Not hazardous

**V. FIRE FIGHTING MEASURES**FLASH POINT: NOT APPLICABLE AUTOIGNITION POINT: NOT APPLICABLE  
FLAMMABILITY LIMITS: UPPER: NOT APPLICABLE LOWER: NOT APPLICABLE  
EXTINGUISHING MEDIA: Water, CO<sub>2</sub>, dry chemical or water spray**VI. ACCIDENTAL RELEASE MEASURES**

Take up with absorbent materials. Place in small containers for disposal. Wash spill site after material pick up is complete.

**VII. HANDLING AND STORAGE**Always wear eye protection and gloves when working with this product.  
Avoid ingestion. Keep container closed during storage.**VIII. EXPOSURE CONTROLS/ PERSONAL PROTECTION**OSHA THRESHOLD LIMIT: None listed  
PROTECTIVE EQUIPMENT: Safety glasses**IX. PHYSICAL AND CHEMICAL PROPERTIES**STATE: Orange liquid ODOR THRESHOLD: None  
SENSITIVITY TO MECHANICAL IMPACT: None  
SENSITIVITY TO STATIC DISCHARGE: None  
COEFFICIENT OF OIL/WATER DISTRIBUTION: None  
SOLUBILITY IN WATER: Soluble pH: (5.5 - 8.0)  
SPECIFIC GRAVITY: 1.11  
BOILING POINT: 100°C MELTING POINT: Not determined  
VAPOR DENSITY: Not determined**X. STABILITY AND REACTIVITY**Product is stable. Hazardous polymerization will not occur.  
Incompatibles: None  
Hazardous decomposition product: None**XI. TOXICOLOGICAL INFORMATION**Route of Exposure: May cause itching or stinging of cuts in skin. May be harmful if swallowed in large doses.  
Teratogen Status: None  
Mutagen Status: None  
Reproductive Toxicity: None  
Carcinogen Status: None**XII. ECOLOGICAL INFORMATION**

Not an ecological hazard

**XIII. DISPOSAL CONSIDERATIONS**

Dispose of in a manner consistent with Federal, State and Local Regulations.

**XIV. TRANSPORT INFORMATION**

Product is not regulated for transport.

**XV. REGULATORY INFORMATION****EUROPEAN INFORMATION:**

None

**US/ CANADA INFORMATION**

SARA/Title III: Not on lists

Cal. Proposition 65: Ingredients not listed

US TSCA Inventory: Ingredients are listed

CPR Class: None

TDG Class: None

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by those regulations.

**XVI. OTHER INFORMATION**

THE ABOVE INFORMATION IS BELIEVED TO BE ACCURATE AND REPRESENTS THE BEST INFORMATION CURRENTLY AVAILABLE TO US. ALL PRODUCTS ARE OFFERED IN ACCORDANCE WITH THE MANUFACTURER'S CURRENT PRODUCTION SPECIFICATIONS AND ARE INTENDED SOLELY FOR USE IN ANALYTICAL TESTING. THE MANUFACTURER SHALL IN NO EVENT BE LIABLE FOR ANY INJURY, LOSS OR DAMAGE RESULTING FROM THE HANDLING, USE OR MISUSE OF THESE PRODUCTS.

MSDS prepared by John Meserve, Quality Assurance group.

## Polarographic D.O. Probe Electrolyte Solution Material Safety Data Sheet

### I. PRODUCT IDENTIFICATION: Polarographic D. O. Probe Electrolyte Solution

Orion 080514

PRODUCT USE: Reagent

NFPA RATINGS: HEALTH: 1 · FLAMMABILITY: 0 REACTIVITY: 0

### II. COMPOSITION/INFORMATION ON INGREDIENTS

		%	LD <sub>50</sub> mg/kg
COMPONENT	Potassium Chloride (KCl)		
CAS NO.	7447-40-7	4	3,600 (ORL-RAT)
COMPONENT	Deionized Water (H <sub>2</sub> O)		
CAS NO.	7732-18-5	96	190,000 (IPR-MUS)

### III. HAZARDS IDENTIFICATION

TARGET ORGANS: Skin and eyes.

ACUTE TOXICITY: Low hazard. An electrolyte imbalance might occur if swallowed.

CHRONIC TOXICITY: Low hazard.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Cause stinging in an open cut.

### IV. FIRST AID MEASURES

EYE AND SKIN CONTACT: Irrigate with water.

INGESTION: Dilute with water and seek medical attention.

INHALATION: Not hazardous.

### V. FIRE FIGHTING MEASURES

FLASH POINT: NA AUTOIGNITION POINT: NA

FLAMMABILITY LIMITS: UPPER: NA LOWER: NA

EXTINGUISHING MEDIA: Dry chemical, water spray, foam or CO<sub>2</sub>.

### VI. ACCIDENTAL RELEASE MEASURES

Clean up and set aside for waste disposal.

### VII. HANDLING AND STORAGE

Always wear eye protection and gloves when working with this product.

Product is low hazard.

Keep at room temperature and well sealed.

### VIII. EXPOSURE CONTROLS/ PERSONAL PROTECTION

OSHA & ACGIH THRESHOLD LIMIT: None listed.

PROTECTIVE EQUIPMENT: Safety glasses, lab coat and gloves.

### IX. PHYSICAL AND CHEMICAL PROPERTIES

STATE: Clear liquid ODOR THRESHOLD: None

SENSITIVITY TO MECHANICAL IMPACT: None

SENSITIVITY TO STATIC DISCHARGE: None

COEFFICIENT OF OIL/WATER DISTRIBUTION: None

SOLUBILITY IN WATER: Soluble pH: 5.5 - 7.5

SPECIFIC GRAVITY: 1.08

BOILING POINT: 106°C MELTING POINT: Not determined

VAPOR DENSITY: Not determined

### X. STABILITY AND REACTIVITY

Product is stable. Hazardous polymerization will not occur.

Incompatibles: None.

Hazardous decomposition product: None.

### XI. TOXICOLOGICAL INFORMATION

Route of Exposure: Itching of skin, irritation of eyes if allowed to come in direct contact.

Teratogen Status: None

Mutagen Status: None

Reproductive Toxicity: None

Carcinogen Status: None

### XII. ECOLOGICAL INFORMATION

None available.

### XIII. DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with Federal, State and Local Regulations.

### XIV. TRANSPORT INFORMATION

Product is not hazardous for transport.

### XV. REGULATORY INFORMATION

EUROPEAN INFORMATION:

None.

US/ CANADA INFORMATION

SARA/Title III: Ingredients not listed.

Cal. Proposition 65: Ingredients not listed.

US TSCA Inventory: Ingredients are listed.

CPR Class: None.

TDG Class: None.

MSDS discloses elements required by the CPR.

### XVI. OTHER INFORMATION

THE ABOVE INFORMATION IS BELIEVED TO BE ACCURATE AND REPRESENTS THE BEST INFORMATION CURRENTLY AVAILABLE TO US. ALL PRODUCTS ARE OFFERED IN ACCORDANCE WITH THE MANUFACTURER'S CURRENT PRODUCTION SPECIFICATIONS AND ARE INTENDED SOLELY FOR USE IN ANALYTICAL TESTING. THE MANUFACTURER SHALL IN NO EVENT BE LIABLE FOR ANY INJURY, LOSS OR DAMAGE RESULTING FROM THE HANDLING, USE OR MISUSE OF THESE PRODUCTS.

MSDS prepared by Quality Assurance Group.