

# SAFETY DATA SHEET

Revision Date 18-May-2015

WAI1 - AGHS - OSHA

**Revision Number 1** 

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product Identifier** 

**Product Name** 

ROSS Reference Electrode Filling Solution

Product Number(s)

810007

Pure substance/mixture

Mixture

Relevant identified uses of the substance or mixture and uses advised against

Recommended Use

Use as laboratory reagent

Uses advised against

No Information available

Manufacturer/Supplier

Thermo Fisher Scientific® Water and Lab Products

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Made in

USA

Emergency Telephone

24 Hour Emergency Phone Number

**CHEMTREC®** 

Within USA and Canada: 1-800-424-9300 Outside USA and Canada: 1-703-527-3887

(collect calls accepted)

# 2. HAZARDS IDENTIFICATION

### Classification

#### **OSHA Regulatory Status**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

#### Label Elements

#### **Emergency Overview**

The product contains no substances which at their given concentration, are considered to be hazardous to health

Appearance Orange

Physical State Liquid

Odor None

Safety data sheet available on request

#### **Precautionary Statements**

Do not handle until all safety information has been read and understood.

# Hazards not otherwise classified (HNOC)

No information available

#### Other Information

No information available

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %	Trade Secret
Potassium Chloride	7447-40-7	20 - 30%	*

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

# 4. FIRST AID MEASURES

### First aid measures

General Advice Use first aid treatment according to the nature of the injury. Get medical attention

immediately if symptoms occur. Show this safety data sheet to the doctor in attendance.

Eye Contact Rinse thoroughly with plenty of water, also under the eyelids. Obtain medical attention.

Skin Contact Wash off immediately with soap and plenty of water for at least 15 minutes while removing

all contaminated clothing and shoes. If skin reactions occur, contact a physician.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, obtain medical

attention.

Ingestion Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting. Call a

physician or Poison Control Center immediately.

**Protection of First-aiders** 

Use personal protective equipment. See Section 8 for more detail. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

# Most important symptoms and effects, both acute and delayed

Most important symptoms/effects

No information available

### Indication of any immediate medical attention and special treatment needed

Notes to Physician

Treat symptomatically

# 5. FIRE-FIGHTING MEASURES

#### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### Unsuitable Extinguishing Media

No information available

### Specific Hazards Arising from the Chemical

No information available

#### **Explosion Data**

Sensitivity to Mechanical Impact None Sensitivity to Static Discharge None

### Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

# 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions
Environmental Precautions

Use personal protective equipment. Refer to Section 8, Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

### Methods and Material for Containment and Cleaning Up

**Methods for Containment** 

Prevent further leakage or spillage if safe to do so.

**Methods for Cleaning Up** 

Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

### 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Handling

To avoid risks to human health and the environment, comply with the instructions for use

Wear personal protective equipment

Avoid breathing dust/fume/gas/mist/vapours/spray Ensure adequate ventilation, especially in confined areas

# Conditions for Safe Storage, Including any Incompatibilities

Storage

Keep container tightly closed in a dry and well-ventilated place

Store at room temperature in the original container

Keep away from direct sunlight

**Incompatible Products** 

No information available

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limits

established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering Measures Showers

Eyewash stations Ventilation systems

Individual protection measures, such as personal protective equipment

Eyelface Protection Wear chemical splash goggles. If splashes are likely to occur, wear:. Face-shield.

Skin and Body Protection Wear protective gloves/clothing.

Respiratory Protection None required under normal usage. In case of inadequate ventilation wear respiratory

protection.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State Liquid
Appearance Orange
Odor None

Odor Threshold No information available

**pH Range** 5.0 - 8.5

Property Values Remarks • Method

Melting point/freezing point

No information available

Point/Range

No information available

100 °C / 212 °F

Flash Point (High in °C) N/A

Evaporation Rate No information available Flammability (solid, gas) No information available Flammability Limit in Air

Upper flammability limit:
Lower flammability limit:
Vapor pressure
Vapor Density
Specific Gravity

No information available
No information available
No information available
No information available

Water Solubility Soluble in water

Solubility in other solvents

Partition coefficient

No information available
No information available

Autoignition Temperature

Decomposition Temperature

Kinematic Viscosity

Dynamic viscosity

No information available
No information available

Explosive Properties No information available
Oxidizing Properties No information available

Other Information

Softening Point
Molecular Weight
VOC Content(%)
No information available
No information available
No information available

Product Name ROSS Reference Electrode Filling Solution Revision Date 18-May-2015

Density Bulk Density No Information available No information available

# 10. STABILITY AND REACTIVITY

#### Reactivity

No Information available

#### **Chemical Stability**

Stable under normal conditions

#### Possibility of Hazardous Reactions

None under normal processing

### **Conditions to Avoid**

Extremes of temperature and direct sunlight

### **Incompatible Materials**

No information available

### **Hazardous Decomposition Products**

Thermal decomposition can lead to release of irritating gases and vapors

# 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

Inhalation

No information available

**Eye Contact** 

No information available

**Skin Contact** 

No information available

Ingestion

No information available

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Potassium Chloride 7447-40-7	= 2600 mg/kg (Rat)	-	-

# Information on Toxicological Effects

**Symptoms** 

No information available

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization

No information available

**Mutagenic Effects** 

No information available

Carcinogenicity

No information available.

**Reproductive Effects** 

No information available

STOT - single exposure

No information available

STOT - repeated exposure

No information available

Aspiration hazard

No information available

### Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral)

11818 mg/kg

### 12. ECOLOGICAL INFORMATION

### Ecotoxicity

0.2% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Component	Freshwater Algae	Freshwater Fish	Water Flea
Potassium Chloride 7447-40-7	2500: 72 h Desmodesmus subspicatus mg/L EC50	750 - 1020: 96 h Pimephales promelas mg/L LC50 static 1060: 96 h Lepomis macrochirus mg/L LC50 static	83: 48 h Daphnia magna mg/L EC50 Static 825: 48 h Daphnia magna mg/L EC50

# Persistence and Degradability

No information available

### Bioaccumulation/ Accumulation

No information available

#### Mobility

No information available.

### Other adverse effects

No information available

# 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

**Waste Disposal Methods** 

Disposal should be in accordance with applicable regional, national and local laws and

regulations.

**Contaminated Packaging** 

Improper disposal or reuse of this container may be dangerous and illegal.

# 14. TRANSPORT INFORMATION

DOT

Not regulated

TDG

Not regulated

MEX

Not regulated

ICAO

Not regulated

<u>IATA</u>

Not regulated

IMDG/IMO

Not regulated

RID

Not regulated

ADR

Not regulated

**ADN** 

Not regulated

### 15. REGULATORY INFORMATION

International Inventories

USINV

Complies

CANINV Complies EINECS/ELINCS Complies

ENCS Does not Comply

IECSCCompliesKECLCompliesPICCSCompliesAICSComplies

USINV/ TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

CANINV/ DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS - Japanese Existing and New Chemical Substances

IECSC - Chinese Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

### U.S. Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and and Title 40n of the Code of Federal Regulations, Part 372.

#### SARA 311/312 Hazardous

#### Categorization

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

### Clean Water Act

Not applicable

### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

### U.S. State Regulations

#### California Proposition 65

This product does not contain any Proposition 65 chemicals

#### State Right-to-Know

#### U.S. EPA Label Information

No information available

# **16. OTHER INFORMATION**

Prepared By Environmental, Health and Safety

Prepared For Thermo Fisher Scientific Inc.©

Product Name ROSS Reference Electrode Filling Solution

Revision Date 18-May-2015

**Issue Date** 

No information available

**Revision Date** 

18-May-2015

**Expiration Date** 

SDS is valid 3 years from revision date. Contact wai.techservbev@thermofisher.com for

the latest revision.

Reason for revision

Update to CLP Format

#### **Disclaimer**

IMPORTANT: The information contained in this SDS is correct to the best of our knowledge as of the issue date (or subsequent revision date, if any), and is to be used only as a guide. This SDS does not constitute a guarantee (express or implied) of any kind and we make no warranties of any kind as to the accuracy or completeness of the information contained herein or the merchantability or fitness of the product or this information for a particular purpose. It is the responsibility of each individual buyer/user to determine the suitability of this information and the product for its intended purposes. Product sales are subject to Thermo Fisher Scientifics standard terms and conditions of sale. This information relates only to the designated product as shipped and may not be valid if the product is used in combination with any other materials or is not used in accordance with our instructions, or is altered in any way. It is the responsibility of the buyer/user to ensure that its activities comply with all applicable government requirements. Since conditions of use of the product are not under direct control of Thermo Fisher Scientific, it is the duty of the buyer/user to determine the necessary conditions for the safe use of the product. Thermo Fisher Scientific will not be liable for any injuries or damages resulting from handling, use, misuse or contact with the product.

**End of Safety Data Sheet**