

# SAFETY DATA SHEET

Revision Date 10-Aug-2016 WAI1 - AGHS - OSHA Revision Number 4

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

**Product Identifier** 

Product Name ROSS Reference Electrode Filling Solution

Product No 810007

**Synonyms** 219626-A01

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

Water and Lab Products

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Chelmsford, MA 01824, USA

1-978-232-6000

E-mail address <u>info.water@thermo.com</u>

Made in USA

<u>Emergency Telephone</u> 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

#### **Precautionary Statements**

#### Hazards not otherwise classified (HNOC)

No information available

### Other Information

No information available

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
Water	7732-18-5	70 - 80%
Potassium Chloride	7447-40-7	20 - 30%
FD & C Yellow #5	1934-21-0	<0.1%
FD & C Red #40	25956-17-6	<0.1%

<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. Take off

contaminated clothing and shoes immediately. In case of skin reactions, consult a

physician.

**Inhalation** Move to fresh air. If breathing is difficult, give oxygen. Get medical attention if symptoms

occur.

ROSS Reference Electrode Filling Solution

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 information. Do not use

mouth-to-mouth method if victim ingested or inhaled the substance; give 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**Use personal protective equipment. For further specification, refer to section 8 of the SDS.

Evacuate personnel to safe areas.

Environmental Precautions 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/vapors/spray Ensure adequate ventilation, especially in confined areas

### Conditions for Safe Storage, Including any Incompatibilities

ROSS Reference Electrode Filling Solution

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

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 known or suspected reproductive hazards.

Appropriate engineering controls

**Engineering Measures** Showers

Evewash stations Ventilation systems

Individual protection measures, such as personal protective equipment

Wear chemical splash goggles and face shield. If splashes are likely to occur, wear:. **Eye/face Protection** 

Face-shield.

**Skin and Body Protection** Wear protective gloves/clothing.

None under normal use conditions. In case of inadequate ventilation wear respiratory **Respiratory Protection** 

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

5.0 - 8.5**PH Range** 

Property Values Remarks • Method

No information available Melting point/freezing point ~ 100 °C / 212 °F **Boiling Point/Range** 

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: No information available Lower flammability limit: No information available No information available Vapor pressure Vapor Density No information available **Specific Gravity** No information available

Water Solubility Soluble in water

Solubility in other solvents No information available **Partition coefficient** No information available

**Autoignition Temperature** 

**Decomposition Temperature** No information available Kinematic viscosity No information available **Dynamic viscosity** No information available **Explosive Properties** No information available **Oxidizing Properties** No information available

#### **Other Information**

Softening Point
Molecular Weight
VOC Content(%)
Density
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
Water	LD50 > 90 mL/kg (Rat)	-	=
7732-18-5			
Potassium Chloride	LD50 = 2600 mg/kg (Rat)	-	-
7447-40-7			
FD & C Red #40	LD50 > 10 g/kg (Rat)	LD50 > 10 g/kg (Rabbit)	-
25956-17-6			

# 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
Ī	Potassium Chloride 7447-40-7	EC50: = 2500 mg/L, 72h (Desmodesmus subspicatus)	LC50: 750 - 1020 mg/L, 96h static (Pimephales promelas) LC50: = 1060 mg/L, 96h static	EC50: = 83 mg/L, 48h Static (Daphnia magna) EC50: = 825 mg/L, 48h (Daphnia
			(Lepomis macrochirus)	magna)

#### **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

DOTNot regulatedICAONot regulatedIATANot regulatedIMDG/IMONot regulated

# 15. REGULATORY INFORMATION

**International Inventories** 

USINV Complies
CANINV Complies
EINECS/ELINCS Complies
ENCS Does not Comply
IECSC Complies
KECL Does not Comply

PICCS Complies AICS Complies

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

CANINY/ 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 Title 40 of the Code of Federal Regulations, Part 372

#### SARA 311/312 Hazard Categories

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

# **CWA (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

# U.S. State Right-to-Know Regulations

Component	New Jersey	Massachusetts	Pennsylvania
Water	-	-	X
7732-18-5			

#### U.S. EPA Label Information

No information available

# **16. OTHER INFORMATION**

Prepared By Environmental, Health and Safety

Prepared For Thermo Fisher Scientific Inc.©

Issue Date No information available

Revision Date 10-Aug-2016

Reason for revision SDS sections updated.

#### **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**