

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

<u>Manufacturer/Supplier</u> Thermo Fisher Scientific©

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CHEMTREC®

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(collect calls accepted)

Product Number(s) 810007

Document No. 205538-001

Product Name ROSS Reference Electrode Filling Solution

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%	*

^{*}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.

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Use personal protective equipment. See Section 8 for more detail. Do not use **Protection of First-aiders**

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

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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. Refer to Section 8. 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

Prevent further leakage or spillage if safe to do so. **Methods for Containment**

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

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

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

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

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No information available Incompatible Products

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

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

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

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

Skin and Body Protection Wear protective gloves/clothing.

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

Remarks • Method

EN

protection.

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

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 - 8.5pH Range

Property Values

No information available Melting point/freezing point **Boiling Point/Range** ~ 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: No information available No information available Lower flammability limit: No information available Vapor pressure No information available **Vapor Density 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 No information available **Oxidizing Properties**

Other Information

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

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No Information available Density No information available **Bulk Density**

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

No information available Inhalation

Eye Contact No information available

Skin Contact No information available

Ingestion No information available

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

Information on Toxicological Effects

No information available **Symptoms**

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

No information available Sensitization

Mutagenic Effects No information available

Carcinogenicity No information available.

Reproductive Effects No information available

No information available STOT - single exposure

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 .

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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	2500: 72 h Desmodesmus	750 - 1020: 96 h Pimephales	83: 48 h Daphnia magna mg/L
7447-40-7	subspicatus mg/L EC50	promelas mg/L LC50 static 1060: 96	EC50 Static 825: 48 h Daphnia
	-	h Lepomis macrochirus mg/L LC50	magna mg/L EC50
		static	

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.

Not regulated

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

14. TRANSPORT INFORMATION

DOT Not regulated Not regulated TDG **MEX** Not regulated ICAO Not regulated Not regulated IATA IMDG/IMO Not regulated Not regulated RID ADR Not regulated

15. REGULATORY INFORMATION

International Inventories

ADN

USINV Complies

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Complies **CANINV EINECS/ELINCS** Complies

Does not Comply **ENCS**

IECSC Complies Complies **KECL 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 and Title 40n of the Code of Federal Regulations, Part

SARA 311/312 Hazardous

Categorization

Acute Health Hazard No **Chronic Health Hazard** No **Fire Hazard** No **Sudden Release of Pressure Hazard** Nο **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.©

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No information available **Issue Date**

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

the latest revision.

Update to CLP Format Reason for revision

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