# SAFETY DATA SHEET



Revision Date 12-Oct-2020 WAI1 - AGHS - OSHA Revision Number 5

# 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

Manufacturer, Importer, Supplier Thermo Fisher Scientific©

Water and Lab Products

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Chelmsford, MA 01824, USA

1-978-232-6000

**Emergency Telephone** 24 Hour Emergency Phone Number

 $\mathsf{CHEMTREC}_{\mathbb{R}}$ 

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

(collect calls accepted)

E-mail address info.water@thermo.com

Made in USA

# 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 immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

medical attention.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. Get medical attention

immediately if symptoms occur.

**Inhalation** Remove to fresh air. Get medical attention immediately if symptoms occur.

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Clean mouth with water and drink afterwards plenty of water. Get medical attention if Ingestion

symptoms occur.

Self-Protection of the First Aider No special precautions required.

Most important symptoms and effects, both acute and delayed

Most important symptoms and

None reasonably foreseeable

effects

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

Ensure adequate ventilation. Use personal protective equipment as required. **Personal Precautions** 

Should not be released into the environment. See Section 12 for additional Ecological **Environmental Precautions** 

Information. Vapors may accumulate to form explosive concentrations.

### 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**

Wear personal protective equipment/face protection Handling

Ensure adequate ventilation

Avoid contact with skin, eyes or clothing

Avoid ingestion and inhalation

#### 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

Protect from direct sunlight

**Incompatible Products** No information available

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

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

limitsestablished by the region specific regulatory bodies.

Appropriate engineering controls

None under normal use conditions **Engineering Measures** 

Individual protection measures, such as personal protective equipment

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

protection shield.

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

**Respiratory Protection** None under normal use conditions. 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

pН 6.75 **PH Range** 5.0 - 8.5

**Property** Values Remarks • Method

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

Flash Point (High in °C) N/A

**Evaporation Rate** No information available No information available Flammability (solid, gas)

Flammability Limit in Air

**Upper flammability limit:** No information available Lower flammability limit: No information available Vapor pressure No information available **Vapor Density** No information available **Specific Gravity** No information available Water Solubility Soluble in water

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

**Autoignition Temperature** 

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

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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

### **Product Information**

**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 7447-40-7	LD50 = 2600 mg/kg (Rat)	-	-
FD & C Yellow #5 1934-21-0	LD50 > 2000 mg/kg (Rat)	-	-
FD & C Red #40 25956-17-6	LD50 > 10 g/kg (Rat)	LD50 = 10000 mg/kg ( Rabbit )	-

### 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

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Mutagenic Effects No information available

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA
Water	7732-18-5	Not listed	Not listed	Not listed	Not listed
Potassium Chloride	7447-40-7	Not listed	Not listed	Not listed	Not listed
FD & C Yellow #5	1934-21-0	Not listed	Not listed	Not listed	Not listed
FD & C Red #40	25956-17-6	Not listed	Not listed	Not listed	Not listed

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**

0.198% of the mixture consists of components(s) of unknown hazards to the aquatic environment

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

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# 14. TRANSPORT INFORMATION

**DOT** Not regulated

ICAO Not regulated

IATA Not regulated

IMDG/IMO Not regulated

# 15. REGULATORY INFORMATION

**International Inventories** 

United States of America InventoryCompliesCANINVCompliesEINECS/ELINCSComplies

ENCS Does not Comply
IECSC Complies
KECL Complies
PICCS Complies
AICS Complies

#### Legend:

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

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications. Under the amended regulations at 40 CFR 370, EPCRA 311/312 Tier II reporting for the 2017 calendar year will need to be consistent with updated hazard classifications.

### **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

12-Od-2020

#### 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 Regulatory Affairs

Prepared For Thermo Fisher Scientific Inc.©

Issue Date No information available

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**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**