

MOEL's Public Notice No. 2016-19 (Standards for Classification and Labeling of Chemical Substances and Safety Data Sheets)

WAI4 - KGHS - KOREAN Issue Date 05-Sep-2019 Revision Date 05-Sep-2019 Revision Number 1

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**Product Identifier** 

Product Name Reference Electrode Filling Solution

Product No 900004

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

**Supplier** 

Fisher Scientific Korea Thermo Fisher Scientific© D5,D6, Incheon Airport Logistics Water and Lab Products

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**CHEMTREC: 1-800-424-9300 or + 1-703-527-3887 Korea: 00-308-13-2549** (24 hours a day, 7 days a week)

Made in USA

## **SECTION 2: HAZARDS IDENTIFICATION**

#### Classification of the substance or mixture

Physical hazards

Based on available data, the classification criteria are not met

**Health hazards** 

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Based on available data, the classification criteria are not met

#### **Environmental hazards**

Based on available data, the classification criteria are not met

**Label Elements** 

Other Hazards

**NFPA** 

HealthFlammabilityInstabilityPhysical hazards00N/A

## **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

#### 3.2. Mixtures

Component	Common Name	CAS-No	Index No.	Weight %
Water	No information available	7732-18-5	KE-35400	80 - 90
Potassium Chloride	No information available	7447-40-7	KE-29086	>=10 - 20
Triton® X-100	No information available	9002-93-1	KE-33568	<0.1
Silver Nitrate	No information available	7761-88-8	KE-31281	<0.1

## **SECTION 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 Move to fresh air. Get medical attention immediately if symptoms occur.

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

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

effects

None reasonably foreseeable

#### **Reference Electrode Filling Solution**

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

Notes to Physician Treat symptomatically

#### SECTION 5: FIREFIGHTING 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.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment.

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

information.

#### 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.

#### **SECTION 7: HANDLING AND STORAGE**

#### **Precautions for Safe Handling**

Handling Wear personal protective equipment

Ensure adequate ventilation

Avoid contact with skin, eyes and 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

Keep away from direct sunlight

Incompatible Products No information available

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Control Parameters**

Component	CAS-No	Korea	ACGIH TLV	OSHA PEL
Water	7732-18-5	Not listed	Not listed	Not listed

#### **Reference Electrode Filling Solution**

Potassium Chloride	7447-40-7	Not listed	Not listed	Not listed
Triton® X-100	9002-93-1	Not listed	Not listed	Not listed
Silver Nitrate	7761-88-8	TWA: 0.01 mg/m <sup>3</sup>	TWA: 0.01 mg/m <sup>3</sup>	(Vacated) TWA: 0.01 mg/m <sup>3</sup>

Component	CAS-No	European Union	The United Kingdom	Germany
Water	7732-18-5	Not listed	Not listed	Not listed
Potassium Chloride	7447-40-7	Not listed	Not listed	Not listed
Triton® X-100	9002-93-1	Not listed	Not listed	Not listed
Silver Nitrate	7761-88-8	TWA: 0.01 mg/m <sup>3</sup> (8hr)	STEL: 0.03 mg/m <sup>3</sup> 15 min	TWA: 0.01 mg/m <sup>3</sup> (8
			TWA: 0.01 mg/m <sup>3</sup> 8 hr	Stunden). AGW - exposure
				factor 2
				TWA: 0.01 mg/m <sup>3</sup> (8
				Stunden). MAK
				Höhepunkt: 0.02 mg/m <sup>3</sup>

**Biological Exposure Indices** 

Component	CAS-No	Biological Exposure Indices
Water	7732-18-5	Not listed
Potassium Chloride	7447-40-7	Not listed
Triton® X-100	9002-93-1	Not listed
Silver Nitrate	7761-88-8	Not listed

#### **Appropriate engineering controls**

**Engineering Measures** None under normal use conditions

Individual protection measures, such as personal protective equipment

Personal protective equipment Use only those certified by the Korea Occupational Safety and Health Administration.

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

Face-shield.

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

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

protection.

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

No information available **Environmental exposure controls** 

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

**Physical State** Liquid Appearance Clear Odor None

**Odor Threshold** No information available

pН 7.0 PH Range 5.5 - 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)

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

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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

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

**Autoignition Temperature** 

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

**Other Information** 

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

## **SECTION 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.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

#### **Product Information**

#### Information on likely routes of exposure

Inhalation Not an expected route of exposure.

Ingestion No known effect based on information supplied.

**Eyes** Not an expected route of exposure.

Skin No known effect based on information supplied.

## Information on Toxicological Effects

**Symptoms** No information available

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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 None known.

Target Organs

None known.

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) 17333 mg/kg

## SECTION 12: ECOLOGICAL INFORMATION

#### **Ecotoxicity**

0.8% 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)
Silver Nitrate	-	LC50: = 0.0027 mg/L, 96h	EC50: 0.0008 - 0.001 mg/L, 48h
7761-88-8		semi-static (Cyprinus carpio)	Flow through (Daphnia magna)
		LC50: = 0.009 mg/L, 96h	EC50: 0.0008 - 0.0011 mg/L, 48h
		(Pimephales promelas)	Static (Daphnia magna)
		LC50: 0.0064 - 0.0106 mg/L, 96h	EC50: = 0.0006 mg/L, 48h
		semi-static (Pimephales promelas)	(Daphnia magna)
		LC50: 0.00181 - 0.00214 mg/L, 96h	
		static (Pimephales promelas)	
		LC50: 0.00452 - 0.00638 mg/L, 96h	
		flow-through (Pimephales promelas)	
		LC50: 0.00512 - 0.00787 mg/L, 96h	
		semi-static (Poecilia reticulata)	
		LC50: = 0.0075 mg/L, 96h	
		semi-static (Oncorhynchus mykiss)	
		LC50: 0.001339 - 0.001637 mg/L,	
		96h flow-through (Oncorhynchus	
		mykiss)	
		LC50: 0.05 - 0.07 mg/L, 96h static	
		(Lepomis macrochirus)	
		LC50: 0.0242 - 0.0484 mg/L, 96h	
		semi-static (Lepomis macrochirus)	
		LC50: 0.009 - 0.02 mg/L, 96h	
		flow-through (Lepomis macrochirus)	
		LC50: 0.00839 - 0.1802 mg/L, 96h	
		static (Oncorhynchus mykiss)	

## Persistence and Degradability

No information available

## **Bioaccumulation/ Accumulation**

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#### **Reference Electrode Filling Solution**

No information available

#### Mobility

No information available.

#### Other adverse effects

No information available

## **SECTION 13: DISPOSAL CONSIDERATIONS**

#### Waste treatment methods

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

regulations.

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

## SECTION 14: TRANSPORT INFORMATION

Road and Rail Transport Not Regulated

IATA Not regulated

IMDG/IMO Not regulated Not Applicable **Marine Pollutant** 

**Special Precautions for User** No special precautions required

## **SECTION 15: REGULATORY INFORMATION**

Safety, health and environmental regulations/legislation specific for the substance or mixture

Legend: X - Listed '-' - Not Listed

## **International Inventories**

Component	CAS-No	KECL	TSCA	EINECS	IECSC	DSL	NDSL	PICCS	ENCS	AICS
Water	7732-18-5	KE-35400	X	231-791-2	X	X	ı	X	-	Х
Potassium Chloride	7447-40-7	KE-29086	X	231-211-8	X	Х	-	Х	Х	Х
Triton® X-100	9002-93-1	KE-33568	Χ	-	Χ	Х	-	Х	-	Х
Silver Nitrate	7761-88-8	KE-31281	Х	231-853-9	Х	Х	-	Х	Х	Х

Component	CAS-No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Water	7732-18-5	Not applicable	Not applicable	Not applicable	Not applicable
Potassium Chloride	7447-40-7	Not applicable	Not applicable	Not applicable	Not applicable
Triton® X-100	9002-93-1	Not applicable	Not applicable	Not applicable	Not applicable
Silver Nitrate	7761-88-8	Not applicable	Not applicable	Not applicable	Not applicable

Component	CAS-No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential
Water	7732-18-5	Listed	Not applicable	Not applicable
Potassium Chloride	7447-40-7	Listed	Not applicable	Not applicable
Triton® X-100	9002-93-1	Not applicable	Not applicable	Not applicable
Silver Nitrate	7761-88-8	Listed	Not applicable	Not applicable

## **Korean National Regulations**

900004

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Component	CAS-No	Act on Registration and Evaluation of Chemical Substances (K-REACH)	Authorised Chemicals	Existing Substances Subject to Registration
Water	7732-18-5	Annex 1 - KE-35400 Exempt (Index No. 25)	Not applicable	Not applicable
Potassium Chloride	7447-40-7	Annex 1 - KE-29086	Not applicable	Not applicable
Triton® X-100	9002-93-1	Annex 1 - KE-33568	Not applicable	Not applicable
Silver Nitrate	7761-88-8	Annex 1 - KE-31281	Not applicable	Listed
			. так орранизация	
Component	CAS-No	Chemical Control Act - Toxic Chemicals	Chemical Control Act - Prohibited Chemicals	Chemical Control Act - Use Restricted Chemicals
Water	7732-18-5	Not applicable	Not applicable	Not applicable
Potassium Chloride	7447-40-7	Not applicable	Not applicable	Not applicable
Triton® X-100	9002-93-1	Not applicable	Not applicable	Not applicable
Silver Nitrate	7761-88-8	97-1-92 (>25%)	Not applicable	Not applicable
Component	CAS-No	Chemical Control Act - Accident Precaution Chemicals (% in mixtures)	Chemical Control Act - Accident Precaution Chemicals - Quantity limits Storage (% in mixtures)	Chemical Control Act - Accident Precaution Chemicals - Quantity limits Manufacture/Use (% in mixtures)
Water	7732-18-5	Not applicable	Not applicable	Not applicable
Potassium Chloride	7447-40-7	Not applicable	Not applicable	Not applicable
Triton® X-100	9002-93-1	Not applicable	Not applicable	Not applicable
Silver Nitrate	7761-88-8	Not applicable	Not applicable	Not applicable
Component	CAS-No	Waste Control Law	Ministry of Environment - CMR risk	Ministry of Environment Critically Controlled Substance
Water	7732-18-5	Not applicable	Not applicable	Not applicable
Potassium Chloride	7447-40-7	Not applicable	Not applicable	Not applicable
Triton® X-100	9002-93-1	Not applicable	Not applicable	Not applicable
Silver Nitrate	7704 00 0	Not applicable	Not applicable	Not applicable
	7761-88-8	Not applicable		Not applicable
	<u> </u>	Not applicable	.vot applicable	ног аррисавіе
Component	CAS-No	ISHA - Harmful Agents Subject to Work Environment Monitoring	ISHA - Prohibited substances	ISHA - Substances requiring permission
<b>Component</b> Water		ISHA - Harmful Agents Subject to Work	ISHA - Prohibited	ISHA - Substances
·	CAS-No	ISHA - Harmful Agents Subject to Work Environment Monitoring	ISHA - Prohibited substances	ISHA - Substances requiring permission
Water	CAS-No 7732-18-5	ISHA - Harmful Agents Subject to Work Environment Monitoring Not applicable	ISHA - Prohibited substances  Not applicable	ISHA - Substances requiring permission  Not applicable
Water Potassium Chloride	CAS-No 7732-18-5 7447-40-7	ISHA - Harmful Agents Subject to Work Environment Monitoring Not applicable Not applicable	ISHA - Prohibited substances  Not applicable Not applicable	ISHA - Substances requiring permission  Not applicable  Not applicable
Water Potassium Chloride Triton® X-100 Silver Nitrate	7732-18-5 7447-40-7 9002-93-1 7761-88-8	ISHA - Harmful Agents Subject to Work Environment Monitoring Not applicable Not applicable Not applicable Not applicable Not applicable	ISHA - Prohibited substances  Not applicable Not applicable Not applicable Not applicable Not applicable	ISHA - Substances requiring permission  Not applicable Not applicable Not applicable Not applicable
Water Potassium Chloride Triton® X-100 Silver Nitrate  Component	CAS-No  7732-18-5 7447-40-7 9002-93-1 7761-88-8  CAS-No	ISHA - Harmful Agents Subject to Work Environment Monitoring Not applicable Not applicable Not applicable Not applicable ISHA - Substances subject to control	ISHA - Prohibited substances  Not applicable Not applicable Not applicable Not applicable Solution applicable ISHA - Harmful Agents Requiring Health Examination	ISHA - Substances requiring permission  Not applicable Not applicable Not applicable Not applicable Soft applicable ISHA - Permissible Exposure Limits
Water Potassium Chloride Triton® X-100 Silver Nitrate  Component  Water	CAS-No  7732-18-5 7447-40-7 9002-93-1 7761-88-8  CAS-No  7732-18-5	ISHA - Harmful Agents Subject to Work Environment Monitoring Not applicable Not applicable Not applicable Not applicable ISHA - Substances subject to control Not applicable	ISHA - Prohibited substances  Not applicable Not applicable Not applicable Not applicable Solution Not applicable  ISHA - Harmful Agents Requiring Health Examination Not applicable	ISHA - Substances requiring permission  Not applicable Not applicable Not applicable Not applicable Standard Applicable ISHA - Permissible Exposure Limits Not applicable
Water Potassium Chloride Triton® X-100 Silver Nitrate  Component  Water Potassium Chloride	CAS-No  7732-18-5 7447-40-7 9002-93-1 7761-88-8  CAS-No  7732-18-5 7447-40-7	ISHA - Harmful Agents Subject to Work Environment Monitoring Not applicable Not applicable Not applicable Not applicable ISHA - Substances subject to control  Not applicable Not applicable	ISHA - Prohibited substances  Not applicable Not applicable Not applicable Not applicable Solution Not applicable  ISHA - Harmful Agents Requiring Health Examination Not applicable Not applicable	ISHA - Substances requiring permission  Not applicable Not applicable Not applicable Not applicable Shat - Permissible Exposure Limits Not applicable Not applicable
Water Potassium Chloride Triton® X-100 Silver Nitrate  Component  Water Potassium Chloride Triton® X-100	CAS-No  7732-18-5 7447-40-7 9002-93-1 7761-88-8  CAS-No  7732-18-5 7447-40-7 9002-93-1	ISHA - Harmful Agents Subject to Work Environment Monitoring Not applicable Not applicable Not applicable Not applicable ISHA - Substances subject to control  Not applicable Not applicable Not applicable Not applicable Not applicable	ISHA - Prohibited substances  Not applicable Not applicable Not applicable Not applicable Solution Not applicable  ISHA - Harmful Agents Requiring Health Examination Not applicable Not applicable Not applicable	ISHA - Substances requiring permission  Not applicable Not applicable Not applicable Not applicable ISHA - Permissible Exposure Limits Not applicable Not applicable Not applicable Not applicable
Water Potassium Chloride Triton® X-100 Silver Nitrate  Component  Water Potassium Chloride	CAS-No  7732-18-5 7447-40-7 9002-93-1 7761-88-8  CAS-No  7732-18-5 7447-40-7	ISHA - Harmful Agents Subject to Work Environment Monitoring Not applicable Not applicable Not applicable Not applicable ISHA - Substances subject to control  Not applicable Not applicable	ISHA - Prohibited substances  Not applicable Not applicable Not applicable Not applicable Solution Not applicable  ISHA - Harmful Agents Requiring Health Examination Not applicable Not applicable	ISHA - Substances requiring permission  Not applicable Not applicable Not applicable Not applicable Shat - Permissible Exposure Limits Not applicable Not applicable
Water Potassium Chloride Triton® X-100 Silver Nitrate  Component  Water Potassium Chloride Triton® X-100	CAS-No  7732-18-5 7447-40-7 9002-93-1 7761-88-8  CAS-No  7732-18-5 7447-40-7 9002-93-1	ISHA - Harmful Agents Subject to Work Environment Monitoring Not applicable Not applicable Not applicable Not applicable ISHA - Substances subject to control  Not applicable Not applicable Not applicable Not applicable Not applicable	ISHA - Prohibited substances  Not applicable Not applicable Not applicable Not applicable Solution Not applicable  ISHA - Harmful Agents Requiring Health Examination Not applicable Not applicable Not applicable	ISHA - Substances requiring permission  Not applicable Not applicable Not applicable Not applicable ISHA - Permissible Exposure Limits Not applicable Not applicable Not applicable Not applicable

Process Safety Reports | Values (TLVs) Chemicals

Not applicable

Not applicable

Not applicable

TWA: 0.01 mg/m<sup>3</sup>

(minimum quantity)

Not applicable

Not applicable

Not applicable

Not applicable

National Fire Association - Dangerous Substances Minimum quantity requiring a permit

7732-18-5

7447-40-7

9002-93-1

7761-88-8

Water

Potassium Chloride

Triton® X-100 Silver Nitrate management materials

Not applicable

Not applicable

Not applicable

Not applicable

## **Reference Electrode Filling Solution**

Component	CAS-No	Class 1 - Oxidising solids	Class 2 - Flammable solid	Class 3 - Spontaneously Combustible Substances and Dangerous Substances When Wet	Class 4 - Flammable liquids	Class 5 - Self-reactive substances	Class 6 - Oxidising liquids
Water	7732-18-5	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Potassium Chloride	7447-40-7	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Triton® X-100	9002-93-1	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Silver Nitrate	7761-88-8	6. Nitric acid	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

#### **Control Parameters**

Component	CAS-No	Korea	Biological Exposure Indices
Water	7732-18-5	Not listed	Not listed
Potassium Chloride	7447-40-7	Not listed	Not listed
Triton® X-100	9002-93-1	Not listed	Not listed
Silver Nitrate	7761-88-8	TWA: 0.01 mg/m <sup>3</sup>	Not listed

### **US Management Information**

**OSHA** - Occupational Safety and Health Administration

Not applicable

Component	CAS-No	Specifically Regulated Chemicals	Highly Hazardous Chemicals
Water	7732-18-5	Not applicable	Not applicable
Potassium Chloride	7447-40-7	Not applicable	Not applicable
Triton® X-100	9002-93-1	Not applicable	Not applicable
Silver Nitrate	7761-88-8	Not applicable	Not applicable

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	CAS-No	CERCLA EHS RQs	Hazardous Substances	SARA 313 - Threshold
			RQs	Values %
Water	7732-18-5	Not applicable	Not applicable	Not applicable
Potassium Chloride	7447-40-7	Not applicable	Not applicable	Not applicable
Triton® X-100	9002-93-1	Not applicable	Not applicable	Not applicable
Silver Nitrate	7761-88-8	Not applicable	1 lb	1.0

## CLP Classification - Regulation (EC) No 1272/2008

Based on available data, the classification criteria are not met.

EUH210 - Safety data sheet available on request.

## **SECTION 16: OTHER INFORMATION**

Prepared By Regulatory Affairs

Prepared For Thermo Fisher Scientific Inc.©

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Revision Date 05-Sep-2019

Reason for revision Initial Release.

900004

**Reference Electrode Filling Solution** 

Revision Date 05-Sep-2019

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#### 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** 

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