

## SECTION1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier Product name: ECCON2764BT, 2764µS/cm Conductivity Calibration Solution. Product number: 01X211214

 1.2 Relevant Identified uses of the substance or mixture and uses advised against No further relevant information available.
 Application of the substance / the preparation: Reagent for water analysis

1.3 Details of the supplier of the safety data sheet Company name: Thermo Fisher Scientific, Inc 7 Gul Circle, Ievel 2M, Keppel Logistic Building,Singapore 629563, Website: www.eutechinst.com Email: eutech@thermofisher.com Telephone number: (65) 6773 6876. Fax number: (65) 6773 0836. 1.4 Emergency telephone number CHEMTREC 24 HR Emergency: SINGAPORE: 800-101-2201

International: +1 703-741-5970

## **SECTION2.** Hazards identification

2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 (CLP) The product (mixture) is classified as not hazardous. Classification according to Directive 67/548/EEC or Directive 1999/45/EC. The product (preparation) is classified as not hazardous.

2.2 Label elements	
Labelling (CLP)	
Hazard statements:	not applicable.
Safety precautions:	not applicable.

# Labelling (67/548/EEC or Directive 1999/45/EC.)

R phrase(s): not applicable. S phrase(s): not applicable.

#### SECTION3. Composition/information on ingredients

#### 3.1 Substances: not applicable

3.2 Mixtures

Components:		Weight %
CAS: 7447-40-7,EC-No: 231-211-8	Potassium Chloride	< 1%
CAS: 7732-18-5, EC-No: 231-791-2	Deionized water	>99%

# SECTION4. First aid measures

# 4.1 Description of first aid measures General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. After Inhalation: Remove to fresh air. Call a physician if breathing becomes difficult. After Skin contact: Wash off with scap and plenty of water. Call a physician if irritation develops. After Eye contact: Rinse out with plenty of water for at least 15 minutes. If pain persists, summon medical advice. After swallowing Wash out mouth with plenty of water, provided person is conscious. Obtain medical attention if feeling unwell. General Information: Remove contaminated, soaked clothing immediately and dispose of safely.

# SECTION5. Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing agents: Product is non-combustible. Extinguishing materials should therefore be selected according to surroundings.

. 5.2 Special hazards arising from the substance or mixture Hydrogen chloride gas, Potassium oxides. Fire hazard: Not flammable. Explosion hazard: Product is not explosive. Reactivity: Hazardous reactions will not occur under normal conditions.

5.3 Advice for firefighters Protective equipment: Wear self-contained breathing apparatus. Wear full protective suit.

#### Additional information

Product itself is non-combustible. Cool container with spray water from a safe distance. Contain escaping vapors with water. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

# SECTION6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away

6.2 Environmental precautions:

Do not allow product to reach sewage system or water bodies.

6.3 Methods and material for containment and cleaning up: Soak up with inert absorbent material and dispose of properly. Clean up affected area. Dispose according to local regulation.

6.4 Reference to other sections:

No dangerous materials are released.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment. See Section 13 for information on disposal.

SECTION7. Handling and storage

#### 7.1 precautions for safe handling

Avoid contact with skin and eyes. Avoid generation of vapors/aerosols. Do not inhale substance. Information about protection against explosions and fires: The product is not flammable. 7.2 Conditions for safe storage, including any incompatibilities Storage Requirements to be met by storerooms and containers:

Store in cool location. Keep container tightly closed. Out of direct sun and away from heat source. Do not refrigerate. Recommended stores temperature: 20 °C +/- 5 °C Storage class 12=Non-combustible liquids. 7.3 Specific end use(s): Calibration of conductivity sensors.

## SECTION8. Exposure controls/personal protection

Additional information about design of technical systems: No further data; see item 7.

8.1 Control parameters

Components with limit values that require monitoring at the workplace. No Occupational Exposure Limits (OELs) have been established for this product or its chemical components.

8.2 Exposure controls

#### Appropriate engineering controls

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. **Personal protective equipment:** Safety glasses. Gloves.



Material Of gloves Nitrile rubber, NBR

Recommended thickness of the material:≥ 0.11 mm

Penetration time of glove material The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. Value for the permeation: Level = 1 (<10 min)

Value for the permeation: Level = 1 (<10 min) Materials for protective clothing: Not available

Hand protection: Wear chemically resistant protective gloves.

Eye protection: Chemical goggles or safety glasses.

Skin and body protection: Not available

Respiratory protection: Use NIOSH-approved air-purifying or supplied-air respirator where airborne concentrations of vapor or mist are expected to exceed exposure limits. Other information: When using, do not eat, drink or smoke.

# SECTION9. Physical and chemical properties

9.1 Information on basic physical and chemical properties		
Appearance:		
Form:	Liquid	
colour:	Clear	
Odour:	Odourless	
Odour threshold:	Not applicable	
pH-value	Approximately 7 at 25 °C	
Melting point/Melting range:	Not determined	
Boiling point/Boiling range:	Approximately 100 °C	
Flash point:	Not applicable	
Inflammability (solid, gaseous)	Not applicable	
Danger Of explosion:	Not applicable	
Critical values for explosion		
Lower:	Not applicable	
Upper:	Not applicable	
Density:	1.0 g/cm <sup>3</sup> at 25°C	
Relative density	Not applicable	
Vapour density	Not applicable	
Evaporation rate	Not applicable	
Solubility in / Miscibility with		
Water:	Soluble	
Segregation coefficient (n-octanol/water):	Not applicable	
Viscosity:		
Dynamic:	Not applicable	
kinematic	Not applicable	
Solvent content:		
Organic solvents:	Not applicable	
Solids content:	Not applicable	

9.2 Other information: No further relevant information available

# SECTION10. Stability and reactivity

Reactivity
No further relevant information available.
Chemical Stability
Stable under standard ambient conductions.
Possibility Of Hazardous Reactions:
Not to be expected because of low concentration of the dissolved substances.
Conditions to avoid:
Heating
Incompatible materials:
Strong acids
Strong Oxidizing agents
Hazardous decomposition products:
Potassium oxides. Upon heating, toxic fumes are formed. (chlorine).

## SECTION11. Toxicological information

# 11.1 Information on toxicological effects

 Toxicological effects:

 Acute toxicity (oral): No further relevant information available.

 Acute toxicity (inhalative): No further relevant information available.

 Acute toxicity (inhalative): No further relevant information available.

 Skin corrosion/irritation: No further relevant information available.

 Sensitisation to the respiratory tract: No further relevant information available.

 Skin sensitisation: No further relevant information available.

 Germ cell mutagenicity/Genotoxicity: No further relevant information available.

 Carcinogenicity: No further relevant information available.

 Reproductive toxicity: No further relevant information available.

 Effects on or via lactation: No further relevant information available.

 Specific target organ toxicity (single exposure): No further relevant information available.

 Specific target organ toxicity (single exposure): No further relevant information available.

 Specific target organ toxicity (repeated exposure): No further relevant information available.

 Specific target organ toxicity (repeated exposure): No further relevant information available.

 Specific target organ toxicity (repeated exposure): No further relevant information available.

# SECTION12. Ecological information

12.1 Toxicity Aquatic toxicity: No further relevant information available. 12.2 Persistence and degradability No further relevant information available. Other information: No further relevant information available. 12.3 Bioaccumulative potential No further relevant information available 12.4 Mobility in soil No further relevant information available. Additional ecological information: General notes: No ecological problems are to be expected when the product is handled and used with due care and attention. 12.5 Results of PBT and vPvB assessment No data available 12.6 Other adverse effects No further relevant information available.

## SECTION13. Disposal considerations

#### 13.1 Waste treatment methods

Chemical residues are generally classified as special waste and thus covered by local regulations. Contact local authorities or disposal companies for advice. Handle contaminated packaging in the same way as the substance itself.
Uncleanedpackagings:
Recommendation:
Disposal must be made according to official regulations.
Recommended cleaning agent:
Water, if necessary with cleaning agent.

## SECTION14. Transport information

14.1 UN-Number	Not applicable.
ADR. ADN. IMDG. IATA	
14.2 UN proper shipping name	Not restricted
	Not restricted
ADR, ADN, IMDG, IATA	
14.3 Transport hazard class(es)	Not applicable.
ADR, ADN, IMDG, IATA	
Class	
14.4 Packing group	
ADR, IMDG, IATA	Not applicable.
14.5 Environmental hazards:	
Marine pollutant:	No
14.6 Special precautions for user	Not applicable.
14.7 Transport in bulk according to Annex II of	
MARPOL73/78 and the IBC code	Not applicable.
Transport/Additional information:	Not dangerous according to the above specifications.

# SECTION15. Regulatory information

15.4 Safety, health and environmental regulations/legislation specific for the substance or mixture National regulations This safety datasheet complies with the requirements of Regulation According to Regulation (EC) No. 1272/2008 and GHS system. Information about limitation of use: Not required. Chemical safety assessment: For this mixture a chemical safety assessment is not required.

# **SECTION 16. Other information**

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Abbreviations and acronyms:	
ATE - Acute Toxicity Estimate	POW - Partition coefficient Octanol:Water
CAS - Chemical Abstracts Service	PBT - Persistent, Bioaccumulative, Toxic
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory	vPvB- very Persistent, very Bioaccumulative
DSL/NDSL - Canadian Domestic Substances List/Non-DomesticSubstances List	BCF - Bioconcentration factor
EINECS/ELINCS - European Inventory of Existing Commercial ChemicalSubstances/EU List	
of Notified Chemical Substances	IARC - International Agency for Research on Cancer
NLP - EU No Longer Polymers	NTP - National Toxicity Program
IECSC - Chinese Inventory of Existing Chemical Substances	OSHA - United States Occupational Safety and Health Administration
ENCS - Japanese Existing and New Chemical Substances	ACGIH - American Conference of Governmental Industrial Hygienists
KECL - Korean Existing and Evaluated Chemical Substances	NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately
AICS - Australian Inventory of Chemical Substances	Dangerous to Life or Health
PICCS - Philippines Inventory of Chemicals and Chemical Substances	NFPA - United States National Fire Protection Association
WEL - Workplace Exposure Limit	ADR - European Agreement Concerning the International Carriage of Dangerous Goods by
TWA - Time Weighted Average	Road
DNEL - Derived No Effect Level	IMO/IMDG - International Maritime Organization/International Maritime Dangerous Goods
PNEC - Predicted No Effect Concentration	Code
NOEC - No Observed Effect Concentration	ICAO/IATA - International Civil Aviation Organization/International Air Transport Association
RPE - Respiratory Protective Equipment	MARPOL - International Convention for the Prevention of Pollution from Ships
LD50 - Lethal Dose 50%	DOT - United States Department of Transportation
LC50 - Lethal Concentration 50%	GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EC50 - Effective Concentration 50%	

#### Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.