

SAFETY DATA SHEET

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

1.1 Product identifier

Product name: ECCON1413BT, 1413µS/cm Conductivity Calibration Solution.

Product number: 01X211207

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

Blk 55, Ayer Rajah Crescent, #04-16/24, Singapore 139949,

Website: www.eutechinst.com Email: eutech@thermofisher.com Telephone number: (65) 6778 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.)

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	< 0.1%
CAS: 7732-18-5, EC-No: 231-791-2	Deionized water	>99.9%

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 soap 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 swallowingWash 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

Revision Date: 10 JAN 2015 Revision:0 Page:1 of 4 Document No:01X211207

SAFETY DATA SHEET

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 storage temperature: $20\,^{\circ}\text{C}$ +/- $5\,^{\circ}\text{C}$

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.



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) 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

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/cm³ 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

Revision Date: 10 JAN 2015 Revision:0 Page:2 of 4 Document No:01X211207

ECCON1413BT

SAFETY DATA SHEET

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 (dermal): No further relevant information available.

Acute toxicity (inhalative): No further relevant information available. Skin corrosion/irritation: No further relevant information available.

Eye damage/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 (repeated exposure): No further relevant information available.

Aspiration hazard: No further relevant information available

Symptoms:

After ingestion of high quantities: Headache, nausea, inebriation, vomiting, abdominal pain,

drowsiness, diarrhoea

SECTION12. Ecological information

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

OLO HORTA: Hunsport Information		
14.1 UN-Number ADR, ADN, IMDG, IATA	Not applicable.	
14.2 UN proper shipping name ADR, ADN, IMDG, IATA	Not restricted	
14.3 Transport hazard class(es) ADR, ADN, IMDG, IATA Class	Not applicable.	
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.	

Revision Date: 10 JAN 2015 Revision:0 Page:3 of 4 Document No:01X211207

SAFETY DATA SHEET

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
CAS - Chemical Abstracts Service

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-DomesticSubstances List
EINECS/ELINCS - European Inventory of Existing Commercial ChemicalSubstances/EU List of
Notified Chemical Substances

Notified Chemical Substances
NLP - EU No Longer Polymers
IECSC - Chinese Inventory of Existing Chemical Substances
ENCS - Japanese Existing and New Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
AICS - Australian Inventory of Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
WEL - Workplace Exposure Limit
TWA - Time Weighted Average
DNEL - Derived No Effect Concentration PNEC - Predicted No Effect Concentration
NOEC - No Observed Effect Concentration
RPE - Respiratory Protective Equipment
LD50 - Lethal Dose 50%
LC50 - Lethal Concentration 50%

EC50 - Effective Concentration 50%

POW - Partition coefficient Octanol:Water PBT - Persistent, Bioaccumulative, Toxic vPvB- very Persistent, very Bioaccumulative

BCF - Bioconcentration facto

IARC - International Agency for Research on Cancer

NTP - National Toxicity Program

OSHA - United States Occupational Safety and Health Administration ACGIH - American Conference of Governmental Industrial Hygienists

NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous

to Life or Health

NFPA - United States National Fire Protection Association
ADR - European Agreement Concerning the International Carriage of Dangerous Goods by

IMO/IMDG - International Maritime Organization/International Maritime Dangerous Goods Code ICAO/IATA - International Civil Aviation Organization/International Air Transport Association MARPOL - International Convention for the Prevention of Pollution from Ships

DOT - United States Department of Transportation

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

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.

Revision Date: 10 JAN 2015 Revision:0 Page:4 of 4 Document No:01X211207