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## SAFETY DATA SHEET

**Product Code:** HNH17030LC

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### SECTION 1 PRODUCT IDENTIFICATION

**Product name** Hanna 12880 µS/cm Conductivity Solution

**Intended use** Calibration of Conductivity Probes.

### SECTION 2 HAZARD IDENTIFICATION

The product is not classified as hazardous pursuant to the provisions set forth in OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200).

**Other hazards** Information not available

### SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

**Substances** The product does not contain substances classified as being hazardous to human health or the environment pursuant to the provisions set forth in OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200).

**Mixtures** Information not relevant

### SECTION 4 FIRST AID MEASURES

**Description of first aid measures** Not specifically necessary. Observance of good industrial hygiene is recommended

**Most important symptoms and effects, both acute and delayed** Specific information on symptoms and effects caused by the product are unknown.

**Indication of any immediate medical attention and special treatment needed** Information not available

### SECTION 5 FIRE FIGHTING MEASURES

**Suitable Extinguishing Equipment** The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

**Unsuitable Extinguishing Equipment** None in particular.

**Hazards Caused By Exposure In The Event Of Fire** Do not breathe combustion products

**Advice for firefighters** Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

**Special Protective Equipment For Fire-Fighters** Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).



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### SECTION 6 ACCIDENTAL RELEASE MEASURES

<b>Personal precautions, protective equipment and emergency procedures</b>	Block the leakage if there is no hazard. Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures
<b>Environmental precautions</b>	The product must not penetrate into the sewer system or come into contact with surface water or ground water
<b>Methods and material for containment and cleaning up</b>	Collect the leaked product into a suitable container. If the product is flammable, use explosion-proof equipment. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material. Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.
<b>Reference to other sections</b>	Any information on personal protection and disposal is given in sections 8 and 13.

### SECTION 7 HANDLING AND STORAGE

<b>Precautions for safe handling</b>	Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use
<b>Conditions for safe storage, including any incompatibilities</b>	Keep the product in clearly labelled containers. Keep containers away from any incompatible materials, see section 10 for details
<b>Specific end use(s)</b>	Information not available

### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Control parameters</b>	Information not available
<b>Exposure controls</b>	Comply with the safety measures usually applied when handling chemical substances.
<b>Hand Protection</b>	None required.
<b>Skin Protection</b>	None required.
<b>Eye Protection</b>	None required.
<b>Environmental Exposure Controls</b>	The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

### SECTION 9 PHYSICAL/CHEMICAL PROPERTIES

<b>Appearance</b>	liquid
<b>Colour</b>	colourless
<b>Odour odourless</b>	colourless
<b>Odour threshold</b>	Not available
<b>pH</b>	7
<b>Melting point / freezing point</b>	Not available
<b>Initial boiling point</b>	Not available
<b>Boiling range</b>	Not available

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<b>Flash point</b>	Not available
<b>Evaporation rate</b>	Not available
<b>Flammability (solid, gas)</b>	Not available
<b>Lower inflammability limit</b>	Not available
<b>Upper inflammability limit</b>	Not available
<b>Lower explosive limit</b>	Not available
<b>Upper explosive limit</b>	Not available
<b>Vapour pressure</b>	Not available
<b>Vapour density</b>	Not available
<b>Relative density</b>	1.00
<b>Solubility</b>	soluble in water
<b>Partition coefficient: n-octanol/ water</b>	Not available
<b>Auto-ignition temperature</b>	Not available
<b>Decomposition temperature</b>	Not available
<b>Viscosity</b>	Not available
<b>Explosive properties</b>	not applicable
<b>Oxidising properties</b>	not applicable
<b>Total solids (250°C / 482°F)</b>	0,00 %

### SECTION 10 STABILITY AND REACTIVITY

<b>Reactivity</b>	There are no particular risks of reaction with other substances in normal conditions of use.
<b>Chemical stability</b>	The product is stable in normal conditions of use and storage.
<b>Possibility of hazardous reactions</b>	No hazardous reactions are foreseeable in normal conditions of use and storage.
<b>Conditions to avoid</b>	None in particular. However the usual precautions used for chemical products should be respected.
<b>Incompatible materials</b>	Information not available
<b>Hazardous decomposition products</b>	Information not available

### SECTION 11 TOXICOLOGICAL INFORMATION

#### Information on toxicological effects

<b>Metabolism, toxicokinetics, mechanism of action and other information</b>	Information not available
<b>Information on likely routes of exposure</b>	Information not available
<b>Delayed and immediate effects as well as chronic effects from short and long-term exposure</b>	Information not available

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<b>Interactive effects</b>	Information not available	
<b>Acute Toxicity of the mixture:</b>	<b>LC50 (Inhalation)</b>	Not classified (no significant component)
	<b>LD50 (Oral)</b>	Not classified (no significant component)
	<b>LD50 (Dermal)</b>	Not classified (no significant component)
<b>Skin Corrosion / Irritation</b>	Does not meet the classification criteria for this hazard class	
<b>Serious Eye Damage / Irritation</b>	Does not meet the classification criteria for this hazard class	
<b>Respiratory Or Skin Sensitisation</b>	Does not meet the classification criteria for this hazard class	
<b>Germ Cell Mutagenicity</b>	Does not meet the classification criteria for this hazard class	
<b>Carcinogenicity</b>	Does not meet the classification criteria for this hazard class This product is not considered to be a carcinogen by IARC, ACGIH, NTP, and OSHA.	
<b>Reproductive Toxicity</b>	Does not meet the classification criteria for this hazard class	
<b>STOT - Single Exposure</b>	Does not meet the classification criteria for this hazard class	
<b>STOT - Repeated Exposure</b>	Does not meet the classification criteria for this hazard class	
<b>Aspiration Hazard</b>	Does not meet the classification criteria for this hazard class	

### SECTION 12 ECOLOGICAL INFORMATION

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

<b>Toxicity</b>	Information not available
<b>Persistence and degradability</b>	Information not available
<b>Bioaccumulative potential</b>	Information not available
<b>Mobility in soil</b>	Information not available
<b>Results of PBT and vPvB assessment</b>	Information not available
<b>Other adverse effects</b>	Information not available

### SECTION 13 DISPOSAL CONSIDERATIONS

<b>Waste treatment methods</b>	Reuse, when possible. Neat product residues should be considered special non-hazardous waste. Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.
<b>Contaminated Packaging</b>	Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations

### SECTION 14 TRANSPORT INFORMATION

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

<b>UN number</b>	Not applicable
<b>UN proper shipping name</b>	Not applicable

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<b>Transport hazard class(es)</b>	Not applicable
<b>Packing group</b>	Not applicable
<b>Environmental hazards</b>	Not applicable
<b>Special precautions for user</b>	Not applicable
<b>Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Information not relevant

## SECTION 15 REGULATORY INFORMATION

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

#### U.S. Federal Regulations

<b>TSCA:</b>	All components are listed on TSCA Inventory.	
<b>Clean Air Act</b>	<b>Section 112(b):</b>	No component(s) listed.
	<b>Section 602 Class I Substances:</b>	No component(s) listed.
	<b>Section 602 Class II Substances:</b>	No component(s) listed.
<b>Clean Water Act</b>	<b>Priority Pollutants:</b>	No component(s) listed.
	<b>Toxic Pollutants:</b>	No component(s) listed.
<b>DEA</b>	<b>List I Chemicals (Precursor Chemicals):</b>	No component(s) listed.
	<b>List II Chemicals (Essential Chemicals):</b>	No component(s) listed.
<b>EPA List of Lists:</b>	<b>313 Category Code:</b>	No component(s) listed.
<b>EPCRA</b>	<b>302 EHS TPQ:</b>	No component(s) listed.
	<b>304 EHS RQ:</b>	No component(s) listed.
	<b>313 TRI:</b>	No component(s) listed.
<b>CERCLA RQ:</b>	No component(s) listed.	
<b>RCRA Code:</b>	No component(s) listed.	
<b>CAA 112 (r) RMP TQ:</b>	No component(s) listed.	

#### State Regulations

<b>Massachusetts:</b>	No component(s) listed.
<b>Minnesota:</b>	No component(s) listed.
<b>New Jersey:</b>	No component(s) listed.
<b>New York:</b>	No component(s) listed.
<b>Pennsylvania:</b>	No component(s) listed.
<b>California:</b>	No component(s) listed.

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**Proposition 65:** This product does not contain any substances known to the State of California to cause cancer, reproductive harm or birth defects.

### International Regulations

**Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:** None

**Substances subject to the Rotterdam Convention:** None

**Substances subject to the Stockholm Convention:** None

**Canadian WHMIS:** Information not available

### SECTION 16 OTHER INFORMATION

**LEGEND:**

- 313 CATEGORY CODE: Emergency Planning and Community Right-to Know Act Section 313 Category Code
- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAA 112 @ RMP TQ: Risk Management Plan Threshold Quantity (Clean Air Act Section 112@)
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CERCLA RQ: Reportable Quantity (Comprehensive Environment Response, Compensation, and Liability Act)
- CLP: EC Regulation 1272/2008
- DEA: Drug Enforcement Administration
- EmS: Emergency Schedule
- EPA: US Environmental Protection Agency
- EPCRA: Emergency Planning and Community Right-to Know Act
- EPCRA 302 EHS TPQ: Extremely Hazardous Substance Threshold Planning Quantity (Section 302 Category Code)
- EPCRA 304 EHS RQ: Extremely Hazardous Substance Reportable Quantity (Section 304 Category Code)
- EPCRA 313 TRI: Toxics Release Inventory (Section 313 Category Code)
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PEL: Predicted exposure level
- RCRA Code: Resource Conservation and Recovery Act Code
- REL: Recommended exposure limit
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TSCA: Toxic Substances Control Act
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- WHMIS: Workplace Hazardous Materials Information System.

## END OF SDS

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