



# MATERIAL SAFETY DATA SHEET

Revision Number A96007F  
03/04/11

## 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY / UNDERTAKING

**Product name** YSI 3169 Conductivity Calibrator 50,000 micromho/cm  
**Synonyms** None  
**Chemical characterization** Liquid  
**Manufacturer, importer, supplier** YSI Inc.  
1725 Brannum Lane  
Yellow Springs, OH 45387  
**EMERGENCY TELEPHONE NUMBER** (937) 767-7241

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Chemical Name	% Weight	ACGI H TWA	Acute Toxicity	IARC*	NTP*	OSHA*
7447-40-7	Potassium chloride	0-4	None	N/A	N/A	N/A	N/A
7732-18-5	Water	96-100	None	N/A	N/A	N/A	N/A

\* IARC - Group 1 (Carcinogenic to humans)

\* NTP - Report on Carcinogens - Known Carcinogens

\* OSHA - Regulated Carcinogens

## 3. HAZARDS IDENTIFICATION

### Emergency Overview

- This product contains no substances which at their given concentration, are considered to be hazardous to health.

<b>Eye Contact</b>	• Can cause severe irritation. May cause irritation with repeated exposure
<b>Skin Contact</b>	• Exposure can cause skin irritation. Prolonged or repeated exposure may cause irritation
<b>Inhalation</b>	• Avoid breathing vapors or mists. Inhalation may cause irritation of respiratory tissue.
<b>Ingestion</b>	• Ingestion may cause irritation of mouth, throat, and upset stomach.
<b>General Advice</b>	• As with any chemical, use caution when handling.
<b>Principle Routes of Exposure</b>	• Eyes, absorption, ingestion

## 4. FIRST AID MEASURES

<b>General Advice</b>	• If exposure symptoms persist, seek medical attention.
<b>Skin Contact</b>	• Wash exposed areas with soap and water for 15 minutes. • Remove contaminated clothing and wash them before wearing again. • If skin irritation persists, seek medical attention.
<b>Eye Contact</b>	• Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. • If eye irritation persists, seek medical attention
<b>Inhalation</b>	• Move to fresh air • If breathing is difficult, give oxygen • If exposure symptoms persist, seek medical attention
<b>Ingestion</b>	• Do not swallow. Rinse mouth with water and afterwards drink plenty of water. • If symptoms persist, seek prompt medical attention
<b>Notes to Physician</b>	• Treat symptomatically

<b>Protection of First-Aiders</b>	Use necessary personal protective equipment
<b>Aggravated Medical Conditions</b>	Users with skin conditions (eczema, psoriasis, etc.,) respiratory conditions (asthma, bronchitis emphysema, etc.,) or chemical sensitivities should take protective precautions.

## 5. FIRE-FIGHTING MEASURES

<b>Flash Point</b>	• N/A
<b>Suitable Extinguishing Media</b>	• Not applicable to this product
<b>Extinguishing media which must not be used for safety reasons</b>	• None

### Specific Hazards

<b>Special exposure hazards rising from the substance or preparation itself, its combustion products, or released gases</b>	• None
<b>Special protective equipment for firefighters</b>	• None

### Specific Methods

<b>NFPA (National Fire Protection Association)</b>	Health=1 (slight)	Reactivity=0	Fire=0	Special=0 (none)
<b>HMI S (Hazardous Material Information System)</b>	Health=1 (slight)	Reactivity=0	Fire=0	Special=0 (none)

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	<ul style="list-style-type: none"> <li>• Ensure adequate ventilation</li> <li>• Wear personal protective equipment</li> </ul>
<b>Environmental precautions</b>	• No information available
<b>Methods for cleaning up</b>	<ul style="list-style-type: none"> <li>• Wear personal protective equipment</li> <li>• Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container</li> <li>• After cleaning, flush away traces with water.</li> </ul>

## 7. HANDLING AND STORAGE

### Handling

<b>Technical Measures / Precautions</b>	• As a rule, at least 10 air changes per hour are recommended at the workplace.
<b>Safe Handling Advice</b>	• Avoid contact with skin and eyes. Wash hands immediately after contact to avoid hand-eye transfer.

### Storage

<b>Technical Measures / Precautions</b>	<ul style="list-style-type: none"> <li>• Keep in properly labeled containers</li> <li>• Keep containers tightly closed: discard any material that may be contaminated or, which may have changed composition.</li> </ul>
<b>Incompatible Products</b>	• Avoid strong acids, oxidizing agents
<b>Specific use(s)</b>	

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Engineering measures</b>	<ul style="list-style-type: none"> <li>• Ensure adequate ventilation especially in confined areas</li> <li>• Ensure eyewash station is readily available</li> </ul>
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### Personal protective equipment

<b>Hand Protection</b>	• Wear appropriate protective gloves
<b>Eye protection</b>	• Avoid contact with eyes

	<ul style="list-style-type: none"> <li>Wear safety glasses with side-shields or full face shield.</li> </ul>
<b>Respiratory Protection</b>	<ul style="list-style-type: none"> <li>Ensure adequate ventilation is available before handling any chemical</li> </ul>
<b>Skin and Body Protection</b>	<ul style="list-style-type: none"> <li>Lightweight protective clothing</li> <li>Boots</li> <li>Apron</li> </ul>
<b>Hygiene measures</b>	<ul style="list-style-type: none"> <li>Handle in accordance with good industrial hygiene and safety practice</li> <li>Keep away from food, drink and animal feeding material</li> </ul>
<b>Environmental exposure controls</b>	<ul style="list-style-type: none"> <li>No information available</li> </ul>

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### General Information

<b>Form</b>	Liquid
<b>Appearance</b>	Clear colorless liquid
<b>Odor</b>	None

### Important Health Safety and Environmental Information

<b>pH</b>	6.5 to 7.5
<b>Boiling Point / Range</b>	100°C
<b>Flash Point</b>	Not applicable
<b>Vapor Pressure</b>	Equivalent to water
<b>Vapor Density</b>	Equivalent to water vapor
<b>Water Solubility</b>	Infinitely soluble
<b>Specific Gravity</b>	1.00

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	<ul style="list-style-type: none"> <li>Stable under normal conditions.</li> </ul>
<b>Materials to Avoid</b>	<ul style="list-style-type: none"> <li>Strong acids and oxidizing agents</li> </ul>
<b>Hazardous Decomposition Products</b>	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>Polymerization</b>	<ul style="list-style-type: none"> <li>Polymerization does not occur</li> </ul>

## 11. TOXICOLOGICAL INFORMATION

### Local Effects

<b>Skin Irritation</b>	<ul style="list-style-type: none"> <li>May cause skin irritation in susceptible persons.</li> </ul>
<b>Eye Irritation</b>	<ul style="list-style-type: none"> <li>Splashed liquid may cause eye irritation. If irritation persists,</li> <li>seek medical attention</li> </ul>
<b>Inhalation</b>	<ul style="list-style-type: none"> <li>Inhalation of mist or vapors may cause irritation of respiratory tissue.</li> </ul>
<b>Ingestion</b>	<ul style="list-style-type: none"> <li>No effects expected from normal use and minor amounts ingested. Ingestion of large amounts (over 1 tablespoon) may cause digestive system upset</li> </ul>
<b>Sensitization</b>	<ul style="list-style-type: none"> <li>Not a sensitizer.</li> </ul>
<b>Chronic Toxicity</b>	<ul style="list-style-type: none"> <li>No information available</li> </ul>

### Specific Effects

<b>Carcinogenic Effects</b>	<ul style="list-style-type: none"> <li>No information available</li> </ul>
<b>Mutagenic Effects</b>	<ul style="list-style-type: none"> <li>No information available</li> </ul>
<b>Reproductive Toxicity</b>	<ul style="list-style-type: none"> <li>No information available</li> </ul>
<b>Target Organ Effects</b>	<ul style="list-style-type: none"> <li>No information available</li> </ul>

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity Effects

#### Component information

CAS	Chemical Name	% Weight	ACGIH*
7447-40-7	Potassium chloride	0-1	N/A
7732-18-5	Water	99-100	N/A

\* ACGIH - Occupational Exposure Limits - TWA's

#### Product Information

<b>Aquatic Toxicity</b>	No information available.
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#### Other Information

<b>Ozone Depletion Potential; ODP; (R-11 = 1)</b>	No information available.
<b>Global Warming Potential (GWP)</b>	No information available.
<b>Additional Ecological Information</b>	No information available.
<b>Mobility</b>	No information available.
<b>Bioaccumulative Potential</b>	No information available.
<b>Ecotoxicity Effects</b>	No information available.
<b>Aquatic Toxicity</b>	No information available.

## 13. DISPOSAL CONSIDERATIONS

<b>Waste From Residues / Unused Products</b>	Dispose of in accordance with local and national regulations
<b>Contaminated Packaging</b>	Empty containers should be rinsed and disposed of as appropriate for glass and plastic containers.

## 14. TRANSPORT INFORMATION

DOT Not regulated  
UN-No  
Proper shipping name  
Packing group  
Subsidiary Risk  
Description

## 15. REGULATORY INFORMATION

### U.S. Inventories

CAS	Chemical Name	% Weight	ACGIH*
7447-40-7	Potassium chloride	0-1	N/A
7732-18-5	Water	99-100	N/A

\* ACGIH - Occupational Exposure Limits - TWA's

### International Inventories

CAS	Chemical Name	% Weight	EUOED*
7447-40-7	Potassium chloride	0-1	N/A
7732-18-5	Water	99-100	N/A

\* EUOED - EU Occupational Exposure Directive (98/24/EC) Indicative Occupational Exposure Limit Values (IOELV)

## 16. OTHER INFORMATION

Literary Reference None.  
Prepared By YSI, Inc.  
End of Safety Data Sheet.