



# MATERIAL SAFETY DATA SHEET

## MASTER NON HAZARDOUS

Revision Number A96007D,  
3/30/06

### 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.  
1700/1725 Brannum Lane  
Yellow Springs, OH 45387  
USA  
**EMERGENCY TELEPHONE NUMBER** CHEMTREC: 1-800-424-9300

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

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

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

<b>Eye contact</b>	Can cause severe irritation.
<b>Skin contact</b>	Exposure can cause skin irritation.
<b>Inhalation:</b>	Inhalation of dust may cause irritation of respiratory tissue.
<b>Ingestion:</b>	May be harmful if swallowed.
<b>General advice</b>	As with any chemical, use caution when handling.
<b>Properties affecting health</b>	No information available
<b>Principle Routes of Exposure</b>	eyes, absorption, ingestion

### 4. FIRST AID MEASURES

<b>General advice</b>	<ul style="list-style-type: none"><li>If exposure symptoms persist, seek medical attention.</li></ul>
<b>Skin contact</b>	<ul style="list-style-type: none"><li>Wash exposed areas with soap and water for 15 minutes.</li><li>If skin irritation persists, seek medical attention.</li></ul>
<b>Eye contact</b>	<ul style="list-style-type: none"><li>Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes</li><li>If eye irritation persists, seek medical attention</li></ul>
<b>Inhalation:</b>	<ul style="list-style-type: none"><li>Move to fresh air</li><li>If exposure symptoms persist, seek medical attention.</li></ul>
<b>Ingestion:</b>	<ul style="list-style-type: none"><li>Do not swallow. Rinse mouth with water and afterwards drink plenty of water.</li><li>If effects persist, seek medical attention.</li></ul>
<b>Notes to physician</b>	<ul style="list-style-type: none"><li>Treat symptomatically</li></ul>
<b>Protection of first-aiders</b>	<ul style="list-style-type: none"><li>Use necessary personal protective equipment</li></ul>
<b>Aggravated Medical Conditions</b>	<ul style="list-style-type: none"><li>Users with skin conditions (eczema, psoriasis, etc.) respiratory conditions (asthma, bronchitis, emphysema, etc.) or with chemical sensitivities should take protective precautions.</li></ul>



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## 5. FIRE-FIGHTING MEASURES

Flash point	NA
Suitable extinguishing media	<ul style="list-style-type: none"> <li>Not applicable to this product</li> </ul>
Extinguishing media which must not be used for safety reasons	<ul style="list-style-type: none"> <li>None</li> </ul>
Specific hazards	<ul style="list-style-type: none"> <li>None</li> </ul>
Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases	<ul style="list-style-type: none"> <li>None</li> </ul>
Special protective equipment for firefighters	<ul style="list-style-type: none"> <li>None</li> <li>As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear</li> </ul>
Specific methods	<ul style="list-style-type: none"> <li>No special protective measures against fire required</li> </ul>
NFPA (National Fire Protection Association)	Health=1 (slight); Reactivity=0, fire=0, & Special = 0 (none)
HMIS (Hazardous Material Information System)	Health=1(slight); Reactivity=0, fire=0, & Special = 0 (none)

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions	<ul style="list-style-type: none"> <li>Ensure adequate ventilation</li> </ul>
Environmental precautions	<ul style="list-style-type: none"> <li>No information available</li> </ul>
Methods for cleaning up	<ul style="list-style-type: none"> <li>Soak up with inert absorbent material</li> <li>After cleaning, flush away traces with water</li> </ul>

## 7. HANDLING AND STORAGE

### Handling

Technical measures/Precautions	<ul style="list-style-type: none"> <li>As a rule, at least 10 air changes per hour are recommended at the workplace</li> </ul>
Safe handling advice	<ul style="list-style-type: none"> <li>Avoid contact with eyes. Wash hands immediately after contact to avoid hand-eye transfer.</li> </ul>

### Storage

Technical measures/Precautions	<ul style="list-style-type: none"> <li>Keep in properly labelled containers</li> <li>Keep containers tightly closed; discard any material that may be contaminated or, which may have changed composition.</li> <li>The product is not flammable</li> </ul>
Incompatible products	<ul style="list-style-type: none"> <li>Avoid strong acids, oxidizing agents.</li> </ul>

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures	<ul style="list-style-type: none"> <li>Ensure eyewash station is readily available</li> <li>Ensure adequate ventilation, especially in confined areas</li> </ul>
Personal protective equipment	
Hand protection	<ul style="list-style-type: none"> <li>Wear appropriate protective gloves</li> </ul>
Eye protection	<ul style="list-style-type: none"> <li>Avoid contact with eyes</li> <li>Safety glasses with side-shields or full face shield.</li> </ul>
Respiratory protection	<ul style="list-style-type: none"> <li>No information available</li> </ul>
Skin and body protection	<ul style="list-style-type: none"> <li>lightweight protective clothing</li> <li>boots</li> <li>apron</li> </ul>
Hygiene measures	<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 stuffs</li> </ul>



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<b>Environmental exposure controls</b>	• No information available
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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### General Information

<b>Form</b>	Liquid.
<b>Appearance</b>	Clear colorless liquid.
<b>Odour</b>	None.

### Important Health Safety and Environmental Information

<b>pH</b>	6.50 to 7.50
<b>Boiling point/range</b>	100°C
<b>Flash point</b>	None
<b>Vapour pressure</b>	equivalent to water.
<b>Vapour 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>	Stable under normal conditions.
<b>Materials to avoid</b>	Incompatible with strong acids and oxidizing agents.
<b>Hazardous decomposition products</b>	None.
<b>Polymerization</b>	Polymerization does not occur.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

### Component Information

### Product Information

<b>Local effects</b>	
<b>Skin irritation</b>	May cause skin irritation in susceptible persons.
<b>Eye irritation</b>	Dust may cause eye irritation.
<b>Inhalation:</b>	Inhalation of dust may cause irritation of respiratory tissue.
<b>Ingestion:</b>	May be harmful if swallowed.
<b>Sensitization</b>	Not a sensitizer.
<b>Chronic toxicity</b>	No information available.
<b>Specific effects</b>	
<b>carcinogenic effects</b>	No information available.
<b>mutagenic effects</b>	No information available.
<b>Reproductive toxicity</b>	No information available.
<b>Target Organ Effects</b>	No information available.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity effects

### Component Information

CAS	Chemical Name	% Weight	ACGIH*
7447-40-7	Potassium chloride	0-4	N/A
7732-18-5	Water	96-100	N/A

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\* ACGIH - Occupational Exposure Limits - TWA's

## Product Information

**Aquatic toxicity** No information available.

## 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>	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	0-4	N/A
7732-18-5	Water	96-100	N/A

\* ACGIH - Occupational Exposure Limits - TWA's

### International Inventories

CAS	Chemical Name	% Weight	EUOED*
7447-40-7	Potassium chloride	0-4	N/A
7732-18-5	Water	96-100	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