



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	ACGIH 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.

Eye Contact	<ul style="list-style-type: none">Can cause severe irritation. May cause irritation with repeated exposure
Skin Contact	<ul style="list-style-type: none">Exposure can cause skin irritation. Prolonged or repeated exposure may cause irritation
Inhalation	<ul style="list-style-type: none">Avoid breathing vapors or mists. Inhalation may cause irritation of respiratory tissue.
Ingestion	<ul style="list-style-type: none">Ingestion may cause irritation of mouth, throat, and upset stomach.
General Advice	<ul style="list-style-type: none">As with any chemical, use caution when handling.
Principle Routes of Exposure	<ul style="list-style-type: none">Eyes, absorption, ingestion

4. FIRST AID MEASURES

General Advice	<ul style="list-style-type: none">If exposure symptoms persist, seek medical attention.
Skin Contact	<ul style="list-style-type: none">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.
Eye Contact	<ul style="list-style-type: none">Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.If eye irritation persists, seek medical attention
Inhalation	<ul style="list-style-type: none">Move to fresh airIf breathing is difficult, give oxygenIf exposure symptoms persist, seek medical attention
Ingestion	<ul style="list-style-type: none">Do not swallow. Rinse mouth with water and afterwards drink plenty of water.If symptoms persist, seek prompt medical attention
Notes to Physician	<ul style="list-style-type: none">Treat symptomatically

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

5. FIRE-FIGHTING MEASURES

Flash Point	<ul style="list-style-type: none"> N/A
Suitable Extinguishing Media	<ul style="list-style-type: none"> Not applicable to this product
Extinguishing media which must not be used for safety reasons	<ul style="list-style-type: none"> None

Specific Hazards

Special exposure hazards rising from the substance or preparation itself, its combustion products, or released gases	<ul style="list-style-type: none"> None
Special protective equipment for firefighters	<ul style="list-style-type: none"> None

Specific Methods

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

7. HANDLING AND STORAGE

Handling

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

Storage

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

Hand Protection	<ul style="list-style-type: none"> Wear appropriate protective gloves
Eye protection	<ul style="list-style-type: none"> Avoid contact with eyes

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

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Form	Liquid
Appearance	Clear colorless liquid
Odor	None

Important Health Safety and Environmental Information

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

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

Local Effects

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

Specific Effects

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

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

Aquatic Toxicity	No information available.
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Other Information

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

13. DISPOSAL CONSIDERATIONS

Waste From Residues / Unused Products	Dispose of in accordance with local and national regulations
Contaminated Packaging	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.