



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 |
|-----------------------------|---|

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. |
|-------------------------|---------------------------|

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 |
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* 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.