



# MATERIAL SAFETY DATA SHEET

Revision Number **A96038A**  
2/5/09

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

**Product name** YSI 2767 Xylose Calibration Standard, 20 g/L  
**Synonyms** None  
**Chemical characterization** Dilute aqueous solution of the listed ingredients.  
**Manufacturer, importer, supplier** YSI, Inc.  
1700/1725 Brannum Lane  
Yellow Springs, OH 45387  
USA

**EMERGENCY TELEPHONE NUMBER** (937) 767-7241

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Chemical Name	% Weight	ACGIH TWA	OSHA*	NTP*	IARC*
7732-18-5	Water	>96	None	N/A	N/A	N/A
65-85-0	Benzoic Acid	<1	N/A	N/A	N/A	N/A
25102-12-9	Dipotassium EDTA Dihydrate	<1	N/A	N/A	N/A	N/A
609-06-3	L(-)Xylose	2	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>	Contact with eyes may cause irritation
<b>Skin Contact</b>	Exposure can cause skin irritation
<b>Inhalation</b>	Depending on the length of exposure and temperature of liquid, may cause mild irritation from vapors if inhaled
<b>Ingestion</b>	No effects expected from normal use and minor amounts ingested. Ingestion of large amounts, a cup full or more, may cause digestive system upset.
<b>General Advice</b>	If exposure effects persist seek medical attention
<b>Principle Routes of Exposure</b>	Eyes, absorption, ingestion

## 4. FIRST AID MEASURES

<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>Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing 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 in case of accidental inhalation</li><li>If exposure symptoms persist, seek medical attention</li></ul>
<b>Ingestion</b>	<ul style="list-style-type: none"><li>For ingestion of large amounts induce vomiting if person is conscious.</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</li></ul>

	take protective precautions.
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## 5. FIRE-FIGHTING MEASURES

Flash Point	None
Suitable Extinguishing Media	Not applicable to this product
Extinguishing media which must not be used for safety reasons	None

### Specific Hazards

Special exposure hazards rising from the substance or preparation itself, its combustion products, or released gases	none			
Special protective equipment for firefighters	none			
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><li>Use necessary personal protective equipment</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

Technical Measures / Precautions	<ul style="list-style-type: none"><li>Ensure adequate ventilation</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 labeled containers</li><li>Keep containers tightly closed; discard any material that may be contaminated or, which may have changed composition.</li></ul>
Incompatible Products	
Specific use(s)	<ul style="list-style-type: none"><li>No information</li></ul>

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures	<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

Hand Protection	<ul style="list-style-type: none"><li>Wear appropriate protective gloves</li></ul>
Eye protection	<ul style="list-style-type: none"><li>Wear tightly fitting safety goggles or safety glasses with side-shields</li></ul>
Respiratory Protection	<ul style="list-style-type: none"><li>Ensure adequate ventilation is available before handling any chemical.</li><li>In case of insufficient ventilation, wear suitable respiratory equipment</li></ul>
Skin and Body Protection	<ul style="list-style-type: none"><li>Wear 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>
Environmental exposure controls	<ul style="list-style-type: none"><li>No information available</li></ul>

## 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	None
Vapor Pressure	Equivalent to water
Vapor Density	Equal to water vapor
Water Solubility	Infinitely soluble
Specific Gravity	1.00

## 10. STABILITY AND REACTIVITY

Stability	Stable
Materials to Avoid	None
Hazardous Decomposition Products	None
Polymerization	Polymerization does not occur

## 11. TOXICOLOGICAL INFORMATION

### Local Effects

Skin Irritation	May cause skin irritation in susceptible persons
Eye Irritation	May cause eye irritation
Ingestion	Ingestion of large amounts (over 1 tablespoon) may cause digestive system upset
Chronic Toxicity	No information available

### Specific Effects

Carcinogenic Effects	No information available
Mutagenic Effects	No information available
Reproductive Toxicity	No information available
Target Organ Effects	No information available

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity Effects

#### Component information

CAS	Chemical Name	% Weight	ACGIH*
7732-18-5	Water	>96	None
65-85-0	Benzoic Acid	<1	N/A
25102-12-9	Dipotassium EDTA Dihydrate	<1	N/A
609-06-3	L(-)Xylose	2	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.
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<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
7732-18-5	Water	>96	This product contains no substances which at their given concentration, are considered to be hazardous to health
65-85-0	Benzoic Acid	<1	
25102-12-9	Dipotassium EDTA Dihydrate	<1	
609-06-3	L(-)Xylose	2	

\* ACGIH - Occupational Exposure Limits - TWA's

#### International Inventories

CAS	Chemical Name	% Weight	EUOED*
7732-18-5	Water	>96	N/A
65-85-0	Benzoic Acid	<1	N/A
25102-12-9	Dipotassium EDTA Dihydrate	<1	N/A
609-06-3	L(-)Xylose	2	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.