



MATERIAL SAFETY DATA SHEET

Revision Number A95031D
3/30/09

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

Product name YSI 2790 Ethanol Standard Kit
Synonyms None
Chemical characterization Dilute aqueous solution of the listed ingredients
Manufacturer, importer, supplier YSI, Inc
1700/1725 Brannum Lane
Yellow Springs, OH 45387
EMERGENCY TELEPHONE NUMBER 1- 937- 767- 7241

2. COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Chemical Name	% Weight	ACGIH TWA	IARC*	NTP*	OSHA*
7732-18-5	Water	>95	None	N/A	N/A	N/A
64-17-5	Ethyl Alcohol	<1		N/A	N/A	N/A
532-32-1	Sodium Benzoate	<1		N/A	N/A	N/A
25102-12-9	Potassium EDTA	<1		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">May cause severe irritation
Skin Contact	<ul style="list-style-type: none">May cause irritation with repeated exposure
Inhalation	<ul style="list-style-type: none">Inhalation may cause mild irritation of respiratory tract
Ingestion	<ul style="list-style-type: none">Ingestion of large amounts can cause digestive system upset.
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
Eye Contact	<ul style="list-style-type: none">Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes
Inhalation	<ul style="list-style-type: none">Move to fresh air in case of accidental inhalation
Ingestion	<ul style="list-style-type: none">For ingestion of large amounts induce vomiting if person is conscious. If conditions persist, seek medical attention.
Notes to Physician	<ul style="list-style-type: none">Treat symptomatically
Protection of First-Aiders	<ul style="list-style-type: none">Use necessary personal protective equipment
Aggravated Medical Conditions	<ul style="list-style-type: none">Users with skin conditions (eczema, psoriasis, etc), respiratory conditions (asthma, bronchitis, emphysema, etc), or with chemical sensitivities should take protective precautions

5. FIRE-FIGHTING MEASURES

Flash Point	<ul style="list-style-type: none">None
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
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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 As in any fire, wear self-contained breathing apparatus, and full protective gear

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"> Use necessary personal protective equipment
Environmental precautions	<ul style="list-style-type: none"> No information available
Methods for cleaning up	<ul style="list-style-type: none"> Soak up with inert absorbent After cleaning, flush away traces with water

7. HANDLING AND STORAGE

Technical Measures / Precautions	<ul style="list-style-type: none"> Ensure there is adequate ventilation
Safe Handling Advice	<ul style="list-style-type: none"> Wash hands immediately after contact to avoid hand-eye transfer. Take necessary personal protective precautions before using this product.

Storage

Technical Measures / Precautions	<ul style="list-style-type: none"> Store 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"> No information available

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 the appropriate protective gloves
Eye protection	<ul style="list-style-type: none"> Wear tightly fitting safety goggles or safety glasses with side-shields
Respiratory Protection	<ul style="list-style-type: none"> In case of insufficient ventilation, wear suitable respiratory equipment
Skin and Body Protection	<ul style="list-style-type: none"> Long sleeved 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 stuffs
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	Slight smell of ethanol

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	= 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">None
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">Can cause severe irritation
Inhalation	<ul style="list-style-type: none">May cause irritation in nasal passages
Ingestion	<ul style="list-style-type: none">No effects expected from normal use. Ingestion of this product may cause digestive system upset
Sensitization	<ul style="list-style-type: none">No information available
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

Product Information

Aquatic Toxicity	<ul style="list-style-type: none">No information available.
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Other Information

Ozone Depletion Potential; ODP; (R-11=1)	<ul style="list-style-type: none">No information available.
Global Warming Potential (GWP)	<ul style="list-style-type: none">No information available.
Additional Ecological Information	<ul style="list-style-type: none">No information available
Mobility	<ul style="list-style-type: none">No information available.
Bioaccumulative Potential	<ul style="list-style-type: none">No information available.
Ecotoxicity Effects	<ul style="list-style-type: none">No information available
Aquatic Toxicity	<ul style="list-style-type: none">No information available.

13. DISPOSAL CONSIDERATIONS

Waste From Residues / Unused Products	<ul style="list-style-type: none">Dispose of in accordance with local regulations
Contaminated Packaging	<ul style="list-style-type: none">Empty containers should be rinsed and disposed of as appropriate for glass and plastic containers

14. TRANSPORT INFORMATION

DOT Not regulated

15. REGULATORY INFORMATION

U.S. Inventories

CAS	Chemical Name	% Weight	ACGIH TWA
7732-18-5	Water	>95	None
64-17-5	Ethyl Alcohol	<1	N/A
532-32-1	Sodium Benzoate	<1	N/A
25102-12-9	Potassium EDTA	<1	N/A

* ACGIH - Occupational Exposure Limits - TWA's

International Inventories

CAS	Chemical Name	% Weight	EUOED - EU
7732-18-5	Water	>95	None
64-17-5	Sucrose	<5	N/A
532-32-1	Copper (II) chloride	<1	N/A
25102-12-9	DL-Malic Acid	<1	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.