



MATERIAL SAFETY DATA SHEET

Revision Number A95001D
3/30/09

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

Product name YSI 1515 Cell Lysing Agent
Synonyms None
Chemical characterization Mixtures of organic glycols
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	IARC*	NTP*	OSHA*
9002-93-1	Polyethylene glycol octylphenol ether	38-44	N/A	N/A	N/A
57-55-6	1,2-Propylene glycol	58-64	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

- Use all necessary personal protection when handling this material.

Eye Contact	<ul style="list-style-type: none">• Can cause severe irritation
Skin Contact	<ul style="list-style-type: none">• Possible irritation and rash from defatting solvent action
Inhalation	<ul style="list-style-type: none">• Possible irritation in nasal passages from any mists.
Ingestion	<ul style="list-style-type: none">• No effects expected from normal use and minor amounts ingested. Ingestion of large amounts, a cup full or more, 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	Move to fresh air in case of accidental inhalation
Ingestion	For ingestion of large amounts induce vomiting if person is conscious. If conditions persist, seek medical attention.
Notes to Physician	Treat symptomatically
Protection of First-Aiders	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	>212 F
Suitable Extinguishing Media	<ul style="list-style-type: none"> • Water spray • Carbon dioxide (CO₂) • Alcohol-resistant foam • Dry chemical
Extinguishing media which must not be used for safety reasons	<ul style="list-style-type: none"> • No information available

Specific Hazards

Special exposure hazards rising from the substance or preparation itself, its combustion products, or released gases	<ul style="list-style-type: none"> • Thermal decomposition can lead to release of irritating gases and vapors
Special protective equipment for firefighters	<ul style="list-style-type: none"> • As in any fire, wear

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"> • Spilled product may cause floors to be slippery • Wear the appropriate 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

7. HANDLING AND STORAGE

Handling

Technical Measures / Precautions	<ul style="list-style-type: none"> • Avoid contact with skin, eyes, and clothing
Safe Handling Advice	<ul style="list-style-type: none"> • Wash hands immediately after contact to avoid hand-eye transfer • Wear personal protective equipment

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.
Incompatible Products	<ul style="list-style-type: none"> • Contact with active metals like copper, aluminum, and zinc can generate explosive hydrocarbons

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 • Face-shield
Respiratory Protection	<ul style="list-style-type: none"> • Ensure adequate ventilation is available before handling any chemical • 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 green liquid
Odor	None

Important Health Safety and Environmental Information

pH	6.5 to 7.5
Boiling Point / Range	220 °F
Flash Point	> 220 °F
Vapor Pressure	<1mm Hg @ 20 °C
Vapor Density	>1.0
Water Solubility	Infinitely soluble
Specific Gravity	Approx 1.05

10. STABILITY AND REACTIVITY

Stability	<ul style="list-style-type: none"> • Stable
Conditions to avoid	<ul style="list-style-type: none"> • Contact with active metals (copper, aluminum, zinc) can generate explosive hydrocarbons.
Materials to Avoid	<ul style="list-style-type: none"> • Oxidizing agents
Hazardous Decomposition Products	<ul style="list-style-type: none"> • When burned, carbon dioxide, carbon monoxide, hydrocarbons
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
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
Chronic Toxicity	<ul style="list-style-type: none"> • No information available
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

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
UN-No
Proper shipping name
Packing group
Subsidiary Risk
Description

15. REGULATORY INFORMATION

U.S. Inventories

CAS	Chemical Name	% Weight	ACGIH*
9002-93-1	Polyethylene glycol octylphenol ether	38-44	N/A
57-55-6	1,2-Propylene glycol	58-64	N/A

* ACGIH - Occupational Exposure Limits - TWA's

International Inventories

CAS	Chemical Name	% Weight	EUOED*
9002-93-1	Polyethylene glycol octylphenol ether	38-44	N/A
57-55-6	1,2-Propylene glycol	58-64	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.