MATERIAL SAFETY DATA SHEET

Revision Number A95007D
3/30/09

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

Product name	YSI 2355 Glucose (Dextrose) Standard (200 mg/dL)
Synonyms	None
Chemical characterization	Dilute water 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	>97	None	N/A	N/A	N/A
50-99-7	Glucose	<1		N/A	N/A	N/A
532-32-1	Sodium benzoate	<1		N/A	N/A	N/A
25102-12—9	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	• Can cause severe irritation
Skin Contact	• Exposure can cause skin irritation
Inhalation	• Possible irritation of nasal passages from breathing mist from this product
Ingestion	• 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	• As with any chemical, use caution when handling • If exposure effects persist seek medical attention
Principle Routes of Exposure	• Eyes, absorption, ingestion

4. FIRST AID MEASURES

General Advice	• If exposure symptoms persist, seek medical attention.
Skin Contact	• Wash exposed areas with soap and water for 15 minutes
Eye Contact	• 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	• 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	• 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 • 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	• Ensure adequate ventilation • Use necessary personal protective equipment
Environmental precautions	• No information available
Methods for cleaning up	• Soak up with inert absorbent • After cleaning, flush away traces with water

7. HANDLING AND STORAGE

Technical Measures / Precautions	• Avoid contact with skin, eyes, and clothing
Safe Handling Advice	• Wash hands immediately after contact to avoid hand-eye transfer • Wear personal protective equipment

Storage

Technical Measures / Precautions	• Store in properly labeled containers • Keep containers tightly closed. Discard any material that may be contaminated or, which may have changed composition.
Incompatible Products	• No information available

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures	• Ensure adequate ventilation, especially in confined areas • Ensure eyewash station is readily available

Personal protective equipment

Hand Protection	• Wear the appropriate protective gloves
Eye protection	• Wear tightly fitting safety goggles or safety glasses with side-shields • Face-shield
Respiratory Protection	• Ensure adequate ventilation is a available before handling any chemical • In case of insufficient ventilation, wear suitable respiratory equipment
Skin and Body Protection	• Long sleeved clothing • Boots • apron
Hygiene measures	• Handle in accordance with good industrial hygiene and safety practice • Keep away from food, drink, and animal feeding stuffs

Environmental exposure controls	• 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	None
Vapor Pressure	Equivalent to water
Vapor Density	= water vapor
Water Solubility	Infinitely soluble
Specific Gravity	1.00

10. STABILITY AND REACTIVITY

Stability	• Stable under normal conditions
Materials to Avoid	• None
Hazardous Decomposition Products	• None
Polymerization	• Polymerization does not occur

11. TOXICOLOGICAL INFORMATION

Local Effects

Skin Irritation	• May cause skin irritation
Eye Irritation	• Can cause severe irritation
Inhalation	• May cause irritation in nasal passages
Ingestion	• No effects expected from normal use. Ingestion of this product may cause digestive system upset
Sensitization	• No information available
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

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 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 TWA
7732-18-5	Water	>97	None
50-99-7	Glucose	<1	
532-32-1	Sodium benzoate	<1	
25102-12—9	EDTA	<1	

* ACGIH - Occupational Exposure Limits - TWA's

International Inventories

CAS	Chemical Name	% Weight	EUOED - EU
7732-18-5	Water	>97	None
50-99-7	Glucose	<1	
532-32-1	Sodium benzoate	<1	
25102-12—9	EDTA	<1	

* 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.