

MATERIAL SAFETY DATA SHEET

GLUCOSE STANDARD SOLUTION
Carolina Biological Supply Company

Revised: 10/13/09
Replaces: 09/12/07
Printed: 03/06/10

1. PRODUCT DESCRIPTION

Product Name: Glucose Standard Solution
Product Code(s): 86-5393
Size: 500 mL
Chemical Name: N/A
CAS Number: 50-99-7 (Dextrose)
65-85-0 (Benzoic acid)
Synonyms: D-Glucose, Grape Sugar, Corn Sugar, Dextrose
Distributor: Carolina Biological Supply Company
2700 York Road
Burlington, NC 27215

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)
Chemtrec (Transportation Spill Response 24 hours): 800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

Principal Hazardous Components: Dextrose (CAS#50-99-7) 1%
Benzoic Acid (CAS#65-85-0) 0.2%

TLV and PEL units: None established

3. HAZARD IDENTIFICATION

Emergency Overview: Not considered hazardous under normal conditions.

Potential Health Effects:

Eyes: May cause irritation.

Skin: May cause irritation.

Ingestion: May cause gastrointestinal discomfort.

Inhalation: May cause irritation to respiratory tract.

4. FIRST AID MEASURES

Emergency and First Aid Procedures:

Eyes - Flush with water for at least 15 minutes, raising and lowering eyelids occasionally. Get medical attention if irritation persists.
Skin - Thoroughly wash exposed area for at least 15 minutes. Remove contaminated clothing. Launder contaminated clothing before reuse. Get medical attention if irritation persists.

Ingestion - If swallowed, if conscious, give plenty of water.

Immediately call a physician or poison control center. Never give anything by mouth to an unconscious person.

Inhalation - Remove to fresh air. Give oxygen if breathing is difficult; give artificial respiration if breathing has stopped. Keep person warm and quiet, and get medical attention.

5. FIREFIGHTING PROCEDURES

Flash Point(Method Used): Not applicable

NFPA Rating: Health: 0
Fire: 0
Reactivity: 0

Extinguisher Media:

Use media suitable to extinguish surrounding fire.

Flammable Limits in Air % by Volume: Not applicable

Autoignition Temperature: No information available

Special Firefighting Procedures:

Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

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Unusual Fire and Explosion Hazards: None expected

6. SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled:

Ventilate area of spill. Eliminate all sources of ignition. Remove all non-essential personnel from area. Clean-up personnel should wear proper protective equipment and clothing. Absorb material with suitable absorbent and containerize for disposal.

7. SPECIAL PRECAUTION

Precautions to be Taken in Handling or Storing: Store tightly closed in a cool, dry, well ventilated area suitable for general chemical storage. Other Precautions: Wash thoroughly after handling. Do not take internally.

8. SPECIAL PROTECTION INFORMATION

Respiratory Protection(Specify Type):

None needed under normal conditions of use with adequate ventilation. NIOSH approved equipment should be worn if PELs are exceeded.

Ventilation:

Local Exhaust: Preferred
Mechanical(General): Acceptable
Special: No
Other: No

Protective Gloves:

Rubber, neoprene, PVC, or equivalent.

Eye Protection:

Splash proof chemical safety goggles should be worn at all times.

Other Protective Clothing or Equipment:

Lab apron, eye wash, and safety shower.

9. PHYSICAL DATA

Molecular Weight: 180.16 (Dextrose)
Melting Point: Not available
Boiling Point: Not available
Vapor Pressure: Not available
Vapor Density(Air=1): Not available
Specific Gravity(H2O=1): Not available
Percent Volatile by Volume: Not available
Evaporation Rate(H2O=1): Not available
Solubility in Water: This is an aqueous solution
Appearance and Odor: Clear liquid

10. REACTIVITY DATA

Stability: Stable

Conditions to Avoid: May react violently with strong oxidizers

Incompatibility(Materials to Avoid): Oxidizers

Hazardous Decomposition Products: Carbon dioxide, carbon monoxide.

Hazardous Polymerization: Will not occur

11. TOXICITY DATA

Toxicity Data: orl-rat LD50: 25800 mg/kg (dextrose)
 orl-rat LD50: 1700 mg/kg (benzoic acid)

Effects of Overexposure:

Acute: See section 3

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Chronic: Mutation data cited. Reproductive effects data cited.
Not listed as causing cancer by IARC, NTP, or OSHA.
Conditions Aggravated by Overexposure: No information available
Target Organs: No information available
Primary Route(s) of Entry: Inhalation

12. ECOLOGICAL DATA

EPA Waste Numbers: Dextrose U206

13. DISPOSAL INFORMATION

Waste Disposal Methods: Dispose in accordance with all applicable
Federal, State and Local regulations.
Always contact a permitted waste disposer (TSD) to assure compliance.

14. TRANSPORT INFORMATION

Not regulated

15. REGULATORY INFORMATION

EPA TSCA Status: On TSCA Inventory
Hazard Category for SARA Section 311/312 Reporting: Acute

Product or Components	SARA EHS Sec. 302 TPQ	SARA Sec. 313		CERCLA Sec. 103 RQ lbs.	RCRA Sec. 261.33
		Chemicals Name	Chemical List Category		

Dextrose, Anhydrous	No	No	No	No	U206
Benzoic Acid	No	No	No	5000	No

16. ADDITIONAL INFORMATION

The information provided in this Material Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the Material Safety Data Sheet. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

Glossary

ACGIH.....American Conference of Governmental Industrial Hygienists
CAS Number..Chemical Abstracts Service Number
CERCLA.....Comprehensive Environmental Response, Compensation, and
Liability Act
DOT.....U.S. Department of Transportation
IARC.....International Agency of Research on Cancer
mppcf.....million particles per cubic foot
N/A.....Not Available
NTP.....National Toxicology Program
OSHA.....Occupational Safety and Health Administration
PEL.....Permissible Exposure Limit
ppm.....parts per million
RCRA.....Resource Conservation and Recovery Act
SARA.....Superfund Amendments and Reauthorization Act

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TLV.....Threshold Limit Value
TSCA.....Toxic Substances Control Act