Glucose Solution, 1%



Section 1

Product Description

Product Name: Glucose Solution, 1%

Recommended Use: Science education applications

Synonyms: N/A

Distributor: Carolina Biological Supply Company

2700 York Road, Burlington, NC 27215

1-800-227-1150

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)

Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2

Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

GHS Classification:

Other Safety Precautions: Not a dangerous substance according to GHS classification criteria.

No known OSHA hazards.

Section 3

Composition / Information on Ingredients

 Chemical Name
 CAS #
 %

 Water
 7732-18-5
 98.8

 D-glucose, Anhydrous
 50-99-7
 1

 Benzoic Acid
 65-85-0
 0.2

Section 4

First Aid Measures

Emergency and First Aid Procedures

In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Eyes: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Section 5

Firefighting Procedures

Extinguishing Media: Use media suitable to extinguish surrounding fire.

Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Fire and/or Explosion Hazards: N/A

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

Section 6

Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled:

No adverse health affects expected from the clean-up of spilled material. Follow personal protective equipment recommendations found in Section 8 of this (M)SDS.

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the

recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

Section 7

Handling and Storage

Handling: N/A

Storage: Keep container tightly closed in a cool, well-ventilated place.

Storage Code: Green - general chemical storage

Section 8 Protection Information

ACGIH OSHA PEL

 Chemical Name
 (TWA)
 (STEL)
 (TWA)
 (STEL)

 D-glucose, Anhydrous
 N/A
 N/A
 N/A
 N/A

Control Parameters

Engineering Measures:No exposure limits exist for the constituents of this product. General room ventilation

might be required to maintain operator comfort under normal conditions of use.

Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower.

Respiratory Protection: No respiratory protection required under normal conditions of use.

Eye Protection: Wear chemical splash goggles when handling this product. Have an eye wash station

available.

Skin Protection: Avoid skin contact by wearing chemically resistant gloves, an apron and other protective

equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving

work.

Gloves: No information available

Section 9 Physical Data

Formula: Mixture Vapor Pressure: 14

Molecular Weight: N/A
Appearance: Colorless Liquid
Odor: None

Evaporation Rate (BuAc=1): < 1
Vapor Density (Air=1): 0.7
Specific Gravity: Approx. 1.0

Odor Threshold: No data available Solubility in Water: Soluble

pH: No data available
 Melting Point: No data available
 Boiling Point: 100 C
 Log Pow (calculated): No data available
 Autoignition Temperature: No data available
 Decomposition Temperature: No data available

Boiling Point: 100 C

Flash Point: No data available

Decomposition Temperature: No data available

Viscosity: No data available

Flammable Limits in Air: N/A N/A Percent Volatile by Volume: 98.50%

Section 10 Reactivity Data

Reactivity: Not generally reactive under normal conditions.

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: None known.

Incompatible Materials: Water-reactive materials

Hazardous Polymerization: Will not occur

Section 11 Toxicity Data

Routes of Entry N/A Symptoms (Acute): N/A

Delayed Effects: No data available

Acute Toxicity:

Benzoic Acid

Chemical Name CAS Number Oral LD50 Dermal LD50 Inhalation LC50

 Water
 7732-18-5
 Oral LD50 Rat 90000 mg/kg

 D-glucose, Anhydrous
 50-99-7
 Oral LD50 Rat 0.000 mg/kg

25800 mg/kg 65-85-0 Oral LD50 Rat

1700 mg/kg Oral LD50 Mou

Oral LD50 Mouse 1940 mg/kg

Carcinogenicity:

Chemical NameCAS NumberIARCNTPOSHAD-glucose, Anhydrous50-99-7Not listedNot listedNot listed

Chronic Effects:

Mutagenicity: No evidence of a mutagenic effect.

Teratogenicity: No evidence of a teratogenic effect (birth defect).

Sensitization: No evidence of a sensitization effect.

Reproductive: No evidence of negative reproductive effects.

Target Organ Effects:

Acute: See Section 2

Chronic: To the best of our knowledge, the toxicological properties of this mixture have not been thoroughly

evaluated., Reproductive data cited., Tumorigenic data cited., Not listed as a carcinogen by IARC, NTP or

OSHA

Section 12 Ecological Data

Overview: This material is not expected to be harmful to the ecology.

Mobility:No dataPersistence:BiodegradationBioaccumulation:No dataDegradability:No dataOther Adverse Effects:No data

Chemical NameCAS NumberEco ToxicityWater7732-18-5No data available

D-glucose, Anhydrous 50-99-7

Benzoic Acid 65-85-0 96 HR LC50 GAMBUSIA AFFINIS 180 MG/L

48 HR EC50 DAPHNIA MAGNA 860 MG/L [STATIC]

24 HR EC50 DAPHNIA MAGNA 300 MG/L 3 HR EC50 ANABAENA INAEQUALIS 5 MG/L

Section 13 Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always

contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s): Not Determined

Section 14 Transport Information

Ground - DOT Proper Shipping Name:Not regulated for air transport by DOT.

Air - IATA Proper Shipping Name:
Not regulated for air transport by IATA.

Section 15 Regulatory Information

TSCA Status: All components in this product are on the TSCA Inventory.

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
D-glucose, Anhydrous	50-99-7	No	No	No	No	No
Benzoic Acid	65-85-0	No	5000 lb RQ	5000 lb final RQ; 2270 kg final RQ	No	No

Section 16 Additional Information

Revised: 09/09/2015 Replaces: 11/06/2014 Printed: 10-29-2015

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.

Glossary

ACGIH	American Conference of Governmental Industrial Hygienists	NTP OSHA	National Toxicology Program Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
N/A	Not Available	TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health