

Material Safety Data Sheet Glucose Standard Solution 1% (Aq.)

MSDS# 89827

Section 1 - Chemical Product and Company Identification

MSDS Name:

Glucose Standard Solution 1% (Aq.)

Catalog Numbers:

S76789

Synonyms:

Company Identification:

Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410

For information in the US, call:

201-796-7100

Emergency Number US:

201-796-7100

CHEMTREC Phone Number, US:

800-424-9300

Section 2 - Composition, Information on Ingredients

Risk Phrases:

CAS#:

50-99-7

Chemical Name:

Glucose

%:

1.0

EINECS#:

200-075-1

Hazard Symbols:

Risk Phrases:

CAS#:

65-85-0

Chemical Name:

Benzoic acid

%:

< 1.0

EINECS#:

200-618-2

Hazard Symbols:

Risk Phrases:

CAS#:

7732-18-5

Chemical Name:

Water

%:

Balance

EINECS#:

231-791-2

Hazard Symbols:

Text for R-phrases: see Section 16

Hazard Symbols:

None listed

Risk Phrases:

None listed

Section 3 - Hazards Identification

**EMERGENCY OVERVIEW** 

Caution! May cause allergic respiratory reaction. May cause allergic skin reaction. May cause eye and skin irritation. May cause respiratory and digestive tract irritation. Target Organs: None known.

Potential Health Effects

Eye: May cause eye irritation.

May cause skin irritation. May cause skin sensitization, an allergic reaction, which becomes evident upon re-Skin:

exposure to this material.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause allergic reaction.

May cause respiratory tract irritation. May cause asthmatic attacks due to allergic sensitization of the respiratory Inhalation:

Chronic: No information found.

#### Section 4 - First Aid Measures

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower Eyes:

eyelids. Get medical aid immediately.

Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get Skin:

medical aid if irritation develops or persists.

If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an Ingestion:

unconscious person. Get medical aid.

Remove from exposure and move to fresh air immediately. Get medical aid if cough or other symptoms Inhalation:

appear.

Notes to Physician:

# Section 5 - Fire Fighting Measures

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH General Information:

(approved or equivalent), and full protective gear.

Extinguishing Media: Substance is noncombustible; use agent most appropriate to extinguish surrounding fire.

Autoignition Not available

Temperature:

Flash Point: Not available

Explosion Limits: Not available Lower:

Explosion Limits: Not available Upper:

NFPA Rating: Not published

## Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container.

#### Section 7 - Handling and Storage

Wash thoroughly after handling. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Keep

container tightly closed. Avoid ingestion and inhalation.

Storage: Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

### Section 8 - Exposure Controls, Personal Protection

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Chemical Name	ACGIH		++  OSHA - Final PELs
Glucose	none listed	none listed	none listed
Benzoic acid	none listed	none listed	none listed
Water	none listed	none listed	none listed
·			

OSHA Vacated PELs: Glucose: None listed Benzoic acid: None listed Water: None listed

**Engineering Controls:** 

Use adequate ventilation to keep airborne concentrations low.

**Exposure Limits** 

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face

protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a

Respirators: NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if

irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Liquid

Color: clear, colorless

Odor: odorless

pH: Not available

Vapor Pressure: Not available

Vapor Density: Not available Evaporation Rate: Not available

Viscosity: Not available

Boiling Point: 100 deg C (212.00°F)

Freezing/Melting Point: 0 deg C (32.00°F)

Decomposition Temperature: Not available

Solubility in water: Not available

Specific Gravity/Density: ~1.0

Molecular Formula:

Molecular Weight:

Section 10 - Stability and Reactivity

Chemical Stability:

Stability: Stable.

Conditions to Avoid:

Incompatible materials, strong oxidants.

Incompatibilities with Other Materials

Oxidizing agents.

Hazardous Decomposition Products

Carbon monoxide, carbon dioxide.

Hazardous Polymerization

Will not occur.

Section 11 - Toxicological Information

RTECS#:

CAS# 50-99-7: LZ6600000

CAS# 65-85-0: DG0875000

CAS# 7732-18-5: ZC0110000

RTECS:

**CAS# 50-99-7:** Oral, rat: LD50 = 25800 mg/kg;

RTECS:

CAS# 65-85-0: Draize test, rabbit, eye: 100 mg Severe;

Draize test, rabbit, skin: 500 mg/24H Mild;

LD50/LC50:

Carcinogenicity:

Inhalation, rat: LC50 = >26 mg/m3/1H;

Oral, mouse: LD50 = 1940 mg/kg; Oral, rat: LD50 = 1700 mg/kg; Skin, rabbit: LD50 = >10 gm/kg;

RTECS:

**CAS# 7732-18-5:** Oral, rat: LD50 = >90 mL/kg;

Glucose - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Benzoic acid - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Water - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Other: See actual entry in RTECS for complete information.

Section 12 - Ecological Information

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

US DOT

Shipping Name: Not regulated as a hazardous material

Hazard Class: UN Number: Packing Group: Canada TDG

Shipping Name: Not available

Hazard Class: UN Number: Packing Group:

USA RQ: CAS# 65-85-0: 5000 lb final RQ; 2270 kg final RQ

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:Not available

Risk Phrases:

Safety Phrases:

WGK (Water Danger/Protection)

CAS# 50-99-7: 0

CAS# 65-85-0: 1

CAS# 7732-18-5: Not available

### Canada

CAS# 50-99-7 is listed on Canada's DSL List

CAS# 65-85-0 is listed on Canada's DSL List

CAS# 7732-18-5 is listed on Canada's DSL List

Canadian WHMIS Classifications: Not available

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

CAS# 50-99-7 is not listed on Canada's Ingredient Disclosure List.

CAS# 65-85-0 is listed on Canada's Ingredient Disclosure List

CAS# 7732-18-5 is not listed on Canada's Ingredient Disclosure List.

#### US Federal

#### **TSCA**

CAS# 50-99-7 is listed on the TSCA

Inventory.

CAS# 65-85-0 is listed on the TSCA

Inventory.

CAS# 7732-18-5 is listed on the TSCA

Inventory.

Section 16 - Other Information

MSDS Creation Date: 2/09/1998

Revision #5 Date 7/20/2009

REVIEWED

DATE: July 11/2012 Chutherford

The information above is believed to be accurate and represents the best information currently available

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