



D-Glucose, Anhydrous			
Safety Data Sheet (SDS)		SP-CN-G013	
Issued by: Quality Control	Rev: 00	Effective Date: 5-Jun-20	Pg. 1 of 9

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## 1. Identification

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**Production Name:** D-Glucose, Anhydrous

**Catalog Number:** G013

**Company:** Caisson Laboratories

**Address:** 836 South 100 East, Smithfield UT 84335

**Telephone:** 435.755.7615

**Fax:** 435.755.7617

**Emergency Contact:** CHEMTREC 800.424.9300 (703.527.3887)

**Recommended Use:** For research and laboratory use only.

**Restrictions on Use:** This product is intended for research and laboratory use only. This product is not to be used as human or animal therapeutics, cosmetics, pesticidal products, food additives, or as household chemicals.

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## 2. Hazard(s) Identification

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### Classification of the Substance or Mixture

**GHS Classification:** Not a hazardous substance or mixture

### GHS Label Elements, Including Precautionary Statements

**Signal Word:** Not Hazardous

**Hazard Statements:**

Not a hazardous substance or mixture

**Precautionary Statements:**

Not a hazardous substance or mixture

**Pictograms:** N/A

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### ***3. Composition/Information on Ingredients***

**Synonyms:** Dextrose, D-(+)-Glucose, D-Glucose

**Formula:** C<sub>6</sub>H<sub>12</sub>O<sub>6</sub>

**Molecular Weight:** 180.16 g/mol

**CAS-No:** 50-99-7

**EC-No:** 200-075-1

### ***4. First-Aid Measures***

**General Advice:** Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**Route of Exposure**

**If Swallowed:** Never give anything by mouth to an unconscious person. Rinse mouth with water.

**In Case of Skin Contact:** Wash area thoroughly with soap and water.

**In Case of Eye Contact:** In case of contact with eyes, flush with copious amounts of water.

**If Inhaled:** Safely remove victim to fresh air. If not breathing, institute cardiopulmonary resuscitation (CPR).

**Most Important Symptoms and Effects, Both Acute and Delayed:** The most important known symptoms and effects are described in the labelling (see section 2 – Hazards Identification) and/or in section 11 – Toxicological Information.

**Recommendation for Immediate Medical Care and Special Treatment Needed:** No Data Available

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## ***5. Fire-Fighting Measures***

**Suitable Extinguishing Media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special Protective Equipment and Precautions for Fire-Fighters:** Wear self-contained breathing apparatus for firefighting if necessary.

**Special Hazards Arising from the Substance or Mixture:** Carbon oxides

**Additional Information:** No Data Available

## ***6. Accidental Release Measures***

**Personal Precautions, Protective Equipment and Emergency Procedures:** Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

**Environmental Precautions:** No special environmental precautions required.

**Methods and Material for Containment and Cleanup:** Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

## ***7. Handling and Storage***

**Precautions for Safe Handling:** Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.

**Conditions for Safe Storage:** Keep container tightly closed in a dry and well-ventilated place. Keep in a dry place.

**Recommended Storage Temperature:** 15 to 30 °C

**Incompatibilities:** Strong oxidizing agents



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## 8. Exposure controls / Personal Protection

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**OSHA Permissible Exposure Limits (PELs):** Contains no substances with occupational exposure limit values.

**ACGIH Threshold Limit Values (TLVs):** Contains no substances with occupational exposure limit values.

**Engineering controls:** Practice general industrial hygiene practice. Ensure adequate ventilation, especially in confined areas.

**Personal Protective Equipment (PPE):**

**Eye/face protection:** Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards.

**Skin Protection:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Respiratory protection:** Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Body protection:** Wear lab coat, gown, or coveralls to protect from exposure.

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## 9. Physical and Chemical Properties

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**Appearance:** White Powder

**pH:** No Data Available

**Solubility:** No Data Available

**Specific Gravity:** No Data Available

**Melting Range:** 150 - 152 °C (302 - 306 °F)

**Odor:** No Data Available



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**Odor Threshold:** No Data Available

**Viscosity:** No Data Available

**Relative Density:** No Data Available

**Evaporation Rate:** No Data Available

**Initial Boiling Point and Boiling Range:** No Data Available

**Flash Point:** No Data Available

**Flammability (Solid, gas):** No Data Available

**Flammability Upper/Lower Limits:** No Data Available

**Partition Coefficient:** No Data Available

**Vapor Density:** No Data Available

**Vapor Pressure:** No Data Available

**Auto-ignition Temperature:** No Data Available

**Decomposition Temperature:** No Data Available

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## ***10. Stability and Reactivity***

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**Reactivity:** No Data Available

**Chemical Stability:** Stable under recommended storage conditions.

**Possibilities of Hazardous Reactions:** No Data Available

**Conditions to Avoid:** No Data Available

**Incompatible Materials:** Strong oxidizing agents

**Hazardous Decomposition Productions:** Hazardous decomposition products formed under fire conditions. - Carbon oxides

In the event of fire: see section 5



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## 11. Toxicological Information:

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**Toxicity:** LD50 Oral - Rat - 25,800 mg/kg

**Carcinogenicity:**

**NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**IARC:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive Toxicity:** No Data Available

**Symptoms Associated with Overexposure:** No Data Available

**Specific Target Organ Toxicity – Single Exposure:** No Data Available

**Specific Target Organ Toxicity – Repeated Exposure:** No Data Available

**Target Organs:** None Identified

**Medical Conditions Aggravated by Exposure:** None Identified

**Routes of Entry:** No Data Available

**NIOSH/RTECS:** LZ6600000

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## 12. Ecological Information

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**Toxicity:** Toxicity to fish LC0 - Fish - 60,000 mg/l

**Persistence and Degradability:** Biodegradability Result: 48 % - Readily biodegradable.  
(OECD Test Guideline 301D)

**Bioaccumulative Potential:** No Data Available

**Mobility in Soil:** No Data Available



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**Results of PBT and vPvB:** PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

**Other Adverse Effects:** Discharge into the environment must be avoided.

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### 13. Disposal Considerations

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**Disposal of Product:** Dispose in accordance with all applicable federal, state, and local environmental regulations.

**Disposal of Packaging:** Dispose of as unused product.

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### 14. Transport Information

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**DOT (US):**

Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

UN/NA number: N/A    Class: N/A    Packaging group: N/A    Hazard Label: N/A

Reportable Quantity (RQ): N/A

Poison Inhalation Hazard: N/A

**IMDG:**

Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

UN number: N/A    Class: N/A    Packaging group: N/A    Hazard Label: N/A

**IATA:**

Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

UN Number: N/A    Class: N/A    Packaging group: N/A    Hazard Label: N/A



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## 15. Regulatory Information

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TSCA: Listed

SARA Title III:

Section 302 (EHS) Ingredients: No

Section 313 Ingredients: No

Section 304 (EHS/CERCLA) Ingredients: No

Section 311/312 Hazard: No

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## 16. Other Information

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### HMIS Rating

Health Hazard: 0

Chronic Health Hazard: -

Flammability: 0

Physical Hazard: 0

### NFPA Rating

Health Hazard: 0

Fire Hazard: 0

Reactivity: 0

Special Hazard: -

**Further Information:** All chemicals may pose unknown hazards and should be used with caution. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Caisson Laboratories, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.



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**SP-CN-G013** Revision Change Summary:

Rev.	Date	CR#	Approved	Change description
00	5-Jun-20	3408	E. Welker	New Document