

# Dextrose, Hydrous, USP

## Material Safety Data Sheet

### Section 1. Product and Company Identification

**Product Name** Dextrose, Hydrous, USP

**Product Code** DX0155

**Manufacturer** EMD Chemicals Inc.

P.O. Box 70

480 Democrat Road

Gibbstown, NJ 08027

Prior to January 1, 2003 EMD Chemicals Inc. was

EM Industries, Inc. or EM Science, Division of

EM Industries, Inc.

**Effective Date** 3/3/2003

#### For More Information Call

856-423-6300 Technical Service

Monday-Friday: 8:00 AM - 5:00 PM

#### In Case of Emergency Call

800-424-9300 CHEMTREC  
(USA)

613-996-6666 CANUTEC  
(Canada)

24 Hours/Day: 7 Days/Week

**Synonym** D-Glucose Monohydrate

**Material Uses** Analytical reagent.

**Chemical Family** Sugar

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### Section 2. Composition and Information on Ingredients

#### Component

**CAS # % by Weight**

Dextrose, Monohydrate

5996-10-1 100

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### Section 3. Hazards Identification

**Physical State and Appearance** Solid. (Powdered solid.)

#### Emergency Overview

CAUTION!

Handling care generally in keeping with safe laboratory practices is recommended.

**Routes of Entry** Inhalation. Ingestion.

#### Potential Acute Health Effects

**Eyes** No known acute effects of this product resulting from eye contact.

**Skin** No known acute effects of this product resulting from skin contact.

**Inhalation** No known acute effects of this product resulting from inhalation.

**Ingestion** No known acute effects of this product resulting from ingestion.

#### Potential Chronic Health Effects

**Carcinogenic Effects** This material is not known to cause cancer in animals or humans.

Additional information See Toxicological Information (section 11)

**Medical Conditions Aggravated by Overexposure:** Repeated or prolonged exposure is not known to aggravate medical condition.

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### Section 4. First Aid Measures

**Eye Contact** Check for and remove any contact lenses. In case of contact, immediately

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flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.

### **Skin Contact**

In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

### **Inhalation**

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

### **Ingestion**

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

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### **Section 5. Fire Fighting Measures**

**Flammability of the Product** Non-flammable.

**Auto-ignition Temperature** Not applicable.

**Flash Points** Not applicable.

**Flammable Limits** Not applicable.

**Products of Combustion** Not available.

**Fire Hazards in Presence of Various Substances** Not applicable.

**Explosion Hazards in Presence of Various Substances** **Risks of explosion of the product in presence of static discharge:** No.

**Risks of explosion of the product in presence of mechanical impact:** No.

**Fire Fighting Media and Instructions** Not applicable.

**Protective Clothing (Fire)** Not applicable.

**Special Remarks on Fire Hazards** Not available.

**Special Remarks on Explosion Hazards** Not available.

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

**Small Spill and Leak** Use appropriate tools to put the spilled solid in a convenient waste disposal container.

**Large Spill and Leak** Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

**Spill Kit Information** No specific spill kit required for this product.

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

**Handling** Avoid breathing dust. Do not ingest.

**Storage** Keep container tightly closed. Keep container in a cool, well-ventilated area.

**Section 8. Exposure Controls/Personal Protection**

**Engineering Controls** Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

**Personal Protection**

**Eyes** Safety glasses.

**Body** Lab coat.

**Respiratory** Not applicable.

**Hands** Not applicable.

**Feet** Not applicable.

**Protective Clothing****(Pictograms)**

**Personal Protection in Case of a Large Spill** Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

<b>Product Name</b>	<b>Exposure Limits</b>
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Dextrose, Monohydrate	Not available.
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**Section 9. Physical and Chemical Properties**

**Odor** Not available.

**Color** White.

**Physical State and Appearance** Solid. (Powdered solid.)

**Appearance**

**Molecular Weight** 198.17 g/mole

**Molecular Formula** HOCH<sub>2</sub>CH(CHOH)<sub>4</sub>O . H<sub>2</sub>O

**pH** Not available.

**Boiling/Condensation Point** Not available.

**Point**

**Melting/Freezing Point** Not available.

**Point**

**Specific Gravity** Not available.

**Vapor Pressure** Not available.

**Vapor Density** Not available.

**Odor Threshold** Not available.

**Evaporation Rate** Not available.

**LogKow** Not available.

**Solubility** Soluble in water.

**Section 10. Stability and Reactivity**

**Stability and Reactivity** The product is stable.

**Conditions of Instability** Not available.

**Instability**

**Incompatibility with Various Substances** Not available.

**Rem/Incompatibility**

Not available.

**Hazardous Decomposition** Not available.

**Decomposition**

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### Products

**Hazardous** Will not occur.

### Polymerization

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### Section 11. Toxicological Information

#### RTECS Number:

Dextrose, Hydrous, USP Not available.

#### Toxicity

LD50: Not available.

LC50: Not available.

**Chronic Effects on** Not available.

#### Humans

**Acute Effects on** Not available.

#### Humans

**Synergetic Products** Not available.

#### (Toxicologically)

#### Irritancy

Draize Test: Not available.

#### Sensitization

Not available.

#### Carcinogenic

This material is not known to cause cancer in animals or humans.

#### Effects

#### Toxicity to

Not available.

#### Reproductive

#### System

**Teratogenic Effects** Not available.

**Mutagenic Effects** Not available.

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### Section 12. Ecological Information

**Ecotoxicity** Not available.

**BOD5 and COD** Not available.

#### Toxicity of the

The product itself and its products of degradation are not toxic.

#### Products of

#### Biodegradation

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### Section 13. Disposal Considerations

**EPA Waste** Not available.

#### Number

#### Treatment

Material does not have an EPA Waste Number and is not a listed waste, however consultation with a permitted waste disposal site (TSD) should be accomplished. ALWAYS CONTACT A PERMITTED WASTE DISPOSAL (TSD) TO ASSURE COMPLIANCE WITH ALL CURRENT LOCAL, STATE AND FEDERAL REGULATIONS.

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### Section 14. Transport Information

**DOT Classification** Proper Shipping Name: CHEMICALS,  
N.O.S.

RQ: Not applicable.

**TDG Classification** Not available.

**IMO/IMDG** Proper Shipping Name: CHEMICALS,  
N.O.S.

**Classification** RQ: Not applicable.

Not available.

**ICAO/IATA  
Classification**

**Section 15. Regulatory Information**

**U.S. Federal  
Regulations**

TSCA 8(b) inventory: Dextrose, Monohydrate

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: No products were found.

SARA 311/312 MSDS distribution – chemical inventory – hazard identification: No products were found.

SARA 313 toxic chemical notification and release reporting: No products were found.

Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: No products were found.

Clean air act (CAA) 112 accidental release prevention: No products were found.

Clean air act (CAA) 112 regulated flammable substances: No products were found.

Clean air act (CAA) 112 regulated toxic substances: No products were found.

**WHMIS (Canada)**

Not controlled under WHMIS (Canada).

No products were found.

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

**International  
Regulations**

**EINECS** Not available.

**DSCL (EEC)** This product is not classified according to the EU regulations.

**International** No products were found.

**Lists**

China: No products were found.

**State Regulations**

No products were found.

California prop. 65: No products were found.

**Section 16. Other Information**

<b>National Fire Protection Association (U.S.A.)</b>	<b>00</b>	<b>Fire Hazard</b>
	<b>Health</b>	<b>Reactivity</b>
		<b>Specific Hazard</b>

**Changed Since Last  
Revision** +

**Notice to Reader**

The statements contained herein are based upon technical data that EMD Chemicals Inc.

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