



MATERIAL SAFETY DATA SHEET

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MSDS No. DD 20
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SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	DEXTROSE, ANHYDROUS	 CHEMTREC 800-424-9300 Day 716-226-6177 NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4 HMIS * Health 0 Fire 1 Reactivity 1
Chemical Synonyms	Glucose	
Formula	C ₆ H ₁₂ O ₆	
Unit Size	up to 2.5 Kg.	
C.A.S. No.	50-99-7 (Anhydrous)	

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Dextrose, Anhydrous	100%	None established.
LOW HAZARD FOR USUAL LABORATORY HANDLING;		
NON-TOXIC.		

SECTION III PHYSICAL DATA

Melting Point (°F)	148°C (298°F)	Specific Gravity (H ₂ O = 1)	1.5
Boiling Point (°F)	Decomposes.	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	Negligible as solid.	Evaporation Rate (= 1)	N/A
Vapor Density (Air=1)	6.3		
Solubility in Water	90 grams per 100 mL. water at 20°C.		
Appearance & Odor	White crystals or powder; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-flammable.	Flammable Limits in Air % by Volume	N/A	Lower	Upper
Extinguisher Media	Carbon dioxide; dry chemical; water spray.				

SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved, self-contained breathing apparatus and full protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Fire or excessive heat may produce hazardous decomposition products; can react vigorously with oxidizing materials.

SECTION V HEALTH HAZARD DATA

Threshold Limited Value

None established by (ACGIH 1992-93).

Effects of Overexposure

INHALATION: Low hazard for usual laboratory handling. **SKIN:** Low hazard for usual laboratory handling. **EYES:** No specific hazard known. Contact may cause transient irritation. **INGESTION:** Expected to be a low ingestion hazard. Exercise appropriate procedures to minimize potential hazards.

Emergency and First Aid Procedures

EYES: Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. If irritation develops or persists, get medical attention. **SKIN:** Wash with soap and water. If irritation develops or persists, get medical attention. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. **INGESTION:** Treat symptomatically and supportively. Get medical attention immediately. If vomiting occurs, keep head lower than hips to prevent aspiration. Never give anything by mouth to an unconscious person.

SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Excessive temperature and heat
	Stable	X		
Incompatibility (Materials to Avoid)		Strong oxidizers.		
Hazardous Decomposition Products		Combustion will produce carbon dioxide, smoke and probably emits carbon monoxide.		
Hazardous Polymerization		Conditions to Avoid		
May Occur	Will Not Occur	Not applicable.		
	X			

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled

Sweep up and place in a suitable container for disposal. Flush spill area with soap and water.

Waste Disposal Method

Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only.

Dispose of in accordance with federal, state and local regulations.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	None needed in normal laboratory handling. If dusty conditions prevail, wear a NIOSH/MSHA-approved dust mask or work in ventilation hood.			
Ventilation	Local Exhaust	Not needed.	Special	No.
	Mechanical (General)	Not needed.	Other	No.
Protective Gloves	None needed.		Eye Protection	Chemical safety glasses.

Other Protective Equipment: Safety glasses, lab coat, eye wash station.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing
Store in a cool, dry place away from oxidizing materials. Wash thoroughly after handling.

Other Precautions
Read label on container before using. Do not wear contact lenses when working with chemicals.

Remove and wash contaminated clothing.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Revision No. 4	Date 11/13/96	Approved Michael Raszeja	Chemical Safety Coordinator MR
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D.O.T. NON-REGULATED.

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20