

SECTION I		NAME	24 HOUR EMERGENCY ASSISTANCE		
Product	D-FRUCTOSE		CHEMTREC 800-424-9300 Day 716-226-6177 NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4	Health	0
Chemical Synonyms	d-Levulose			Fire	1
Formula	C ₆ H ₁₂ O ₆			Reactivity	0
Unit Size	up to 2.5 Kg.			HMIS *	
C.A.S. No.	57-48-7				

SECTION II INGREDIENTS OF MIXTURES		
Principal Component(s)	%	TLV Units
D-Fructose	100%	None established.
LOW HAZARD FOR USUAL LABORATORY HANDLING; NON-TOXIC.		

SECTION III PHYSICAL DATA			
Melting Point (°F)	104°C (219°F) dec.	Specific Gravity (H ₂ O = 1)	1.60 (20/4°C)
Boiling Point (°F)	Decomposes.	Percent Volatile by Volume (%)	Non-volatile (NA).
Vapor Pressure (mm Hg)	Negligible as solid.	Evaporation Rate (=1)	Non-volatile (NA).
Vapor Density (Air=1)	6.2		
Solubility in Water	Freely soluble.		
Appearance & Odor	White crystalline powder; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA				
Flash Point (Method Used)	Non-flammable (NA).	Flammable Limits in Air % by Volume	NA	Lower Upper
Extinguisher Media	Water spray; dry chemical (ABC); carbon dioxide (CO ₂).			

SPECIAL FIREFIGHTING PROCEDURES	Evacuate personnel to an area of upwind direction and remove unneeded materials; keep fire exposed containers cool with water spray, and provide fire fighters with self-contained breathing apparatus.
UNUSUAL FIRE AND EXPLOSION HAZARDS	Fire or excessive heat may produce hazardous decomposition products; can react vigorously with oxidizing materials. This material in powder form, is capable of creating a dust explosion.

SECTION V HEALTH HAZARD DATA		FF 290
Threshold Limited Value	None established. TWA: 10 mg/m ³ total dust, or 5 mg/m ³ respirable dust. (ACGIH 1992-93).	

Effects of Overexposure	Specific data is not available. This compound is considered to be of low hazard by ingestion or by contact. Exercise appropriate procedure to minimize potential hazards. EYES: No specific hazard is known. However, any material that contacts the eye may be irritating.
Emergency and First Aid Procedures	EYES: Flush thoroughly with water for at least 15 minutes, lifting lower and upper eyelids occasionally. If irritation develops or persists, get medical attention. SKIN: Flush with water. INHALATION: Remove to fresh air. If symptoms of illness develop, get medical attention.

SECTION VI REACTIVITY DATA		
Stability	Unstable	Conditions to Avoid
	Stable	
		Excessive temperature, heat or humidity.
Incompatibility (Materials to Avoid)	Strong oxidizers.	
Hazardous Decomposition Products	Thermal decomposition or burning may produce carbon monoxide and/or carbon dioxide.	
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	Small spills: Recover for use if not contaminated. Sweep up and place in a suitable container. Dissolve in water and flush to sewer with copious amounts of 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. Uncontaminated material may be disposed of in a sanitary landfill or dispose of in an approved incinerator.

SECTION VIII SPECIAL PROTECTION INFORMATION				
Respiration Protection (Specify Type)	None should be needed in normal laboratory handling. If dusty conditions prevail, work in a ventilation hood or wear a NIOSH/MSHA-approved dust mask or respirator.			
Ventilation	Local Exhaust	Not needed.	Special	No.
	Mechanical (General)	If dust prevails.	Other	No.
Protective Gloves	Rubber.	Eye Protection	Chemical safety glasses.	
Other Protective Equipment	Lab coat, eye wash station, ventilation hood, safety glasses, proper gloves.			

SECTION IX SPECIAL PRECAUTIONS	
Precautions to be Taken in Handling & Storing	Store in a cool, dry place away from strong oxidants. 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.