

## SAFETY DATA SHEET – POWDERED

Prepared to U.S. OSHA Standards in compliance with the GHS system (29 CFR 1910.1200(g), rev. 2012.

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Section 1	Identification	Powdered Sugar		
		Manufacturer's Name:	Food additive, beverage	
		United Sugar Producers and Refiners 8000 West 78 <sup>th</sup> St., Suite 300 Edina, MN 55439	sweetener, flavor enhancer, baking ingredient, intended for human consumption	
		Emergency Telephone Number: 701-261-0660	No restrictions on use	
		Information Telephone Number: 800-984-3585		
Section 2	Hazard(s) Identification	<b>No Hazardous Components</b> Sugar and starch support combustion only poorly and are not by themselves hazards unless they are involved as secondary fuels in an existing fire.	The <b>dust</b> generated by the <b>transportation and handling</b> of sugar is an <b>explosion hazard</b> ; measures must be taken to avoid the creation of fugitive dust and to abate any dust created.	
Section 3	Composition/Information on Ingredients	Sucrose, sugar, Saccharose; C <sub>12</sub> H <sub>22</sub> O <sub>11</sub> : 97% UPAC: (2R,3R,4S,5S,6R)-2- [(2S,3S,4S,5R)-3,4-dihydroxy-2,5- bis(hydroxymethyl) oxolan-2-yl] oxy-6- (hydroxymethyl) oxane-3,4,5-triol ] <b>Corn starch: 3%</b>	Table sugar, beet sugar, natural sweetener CAS 57-50-1 UNII C151H8M554 EINECS 200-334-9 RTECS WN6500000 CAS 9005-25-8 RTECS C151H8M554 EINECS 232-679-6	
Section 4	First Aid Measures	<b>INHALED:</b> not expected to require first aid. Exposure to dust may cause coughing or aggravate pre-existing respiratory conditions (asthma). Remove to fresh air; get medical attention for any breathing difficulty	<b>EYES:</b> Mechanical irritant (red, watery, sore eyes). Flush granular material with running water, holding eyelids open. Get medical help if symptoms persist.	

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Section 5	Fire-fighting Measures	Use water or other approved media. Avoid creating airborne dust with high pressure water streams; the use of a fine spray to saturate the material is suitable for any firefighting. Thermal decomposition or burning will produce carbon dioxide, carbon monoxide. Normal fire dept SOP for precautions and PPE.	Sugar dust is explosive, similar to flour and grain products. Though sugar itself supports combustion poorly, the relative explosion hazard of the dust is severe. As with any finely divided organic (carbon- based) solid, dust may be explosive if mixed with air in critical proportions and in the presence of an ignition source possibly resulting in chain reaction-style, serial explosions.
Section 6	Accidental Release Measures	To mitigate possible dust hazard: • remove ignition sources • avoid dispersing dust into the air • ventilate area of spill • use non -sparking tools	Clean-up personnel should wear proper protective equipment. Sweep or scoop up spill for recovery or disposal and place into a closed container. Non-toxic and biodegradable. Whatever cannot be saved for recovery may be discarded as permitted by applicable regulations.
Section 7	Handling and Storage	Avoid handling techniques which are capable of producing and/or dispersing fugitive dust. <b>Remove ignition sources.</b>	Store in doors in areas of low humidity away from sources of moisture. Page 2 of 4

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8	Controls/Personal Protection	None normally required. Inhalation of high concentrations of the dust may cause coughing and upper respiratory tract irritation. In dusty situation, a NIOSH-approved respirator for dust may be worn. <b>Pre-existing</b> <b>respiratory conditions: use approved</b> <b>mask.</b>		In cases of water being used to flush spilled material, floors and steps may become sticky. Use proper footwear when negotiating floors and steps. Wearing of contact lenses when handling product should be avoided. Wear protective goggles.	
Section 9	Physical and Chemical Properties	Melting Point	Decomposes >185° C	Flash Point	N/A
		Boiling Point	N/A	Flammable Limits	N/A
		Specific Gravity (H <sub>2</sub> 0 = 1)	1.587 (sucrose)	LEL	Dust 20 g/m <sup>3</sup>
		Vapor Pressure (mm Hg.)	N/A	UEL	Dust 15 kg/m <sup>3</sup>
		Vapor Density (AIR = 1)	N/A		
		Evaporation Rate Butyl (Acetate = 1)	N/A		
		Solubility in Water: Sucrose: 2.07 grams per gr water @ 25° C 331 grams per 100 grams v @ 70° C; Starch gelatinizes in hot wa	water	<b>Appearance and Odor:</b> Very finely-powdered, white, crystalline solid; odorless.	
Section 10	Stability and Reactivity	Stable under ordinary conditions of use and storage. Hazardous polymerization will NOT occur. Avoid temperatures above 160° F; heat, flames, ignition sources, and incompatibles		acid). ion ce	

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Section 11	Toxicological Information	Non-toxic LD50 29,700 mg/kg (oral, rat): Respiratory cyanosis	Product contains no ingredients currently classified as carcinogenic by NTP, IARC, or OSHA.
Section 12	Ecological Information (non-mandatory)	Non-toxic and biodegradable	
Section 13	Disposal Considerations (non-mandatory)	Whatever cannot be saved for recovery may be discarded as permitted by applicable regulations.	
Section 14	Transport Information (non-mandatory)	Not applicable	
Section 15	Regulatory Information (non-mandatory)	Not ordinarily regulated. (Note some countries do have import quotas which restrict total amount of sugar entering their borders.)	
Section 16	Other Information	Note: sugar dust is explosive, similar to flour and grain products. (values given here are for sucrose only)	
		Ignition temperature of dust cloud	350° C
		Minimum igniting energy	< 10mJ
		Minimum explosion concentration	0.035 oz/cu ft
		Maximum explosion pressure	9 bar
		Maximum rate of pressure rise	5,000 psi/sec
		Minimum exposable concentration in air	0.045 g/L
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