

SAFETY DATA SHEET – GRANULATED

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

Section 1	Identification	Granulated Sugar		
		Manufacturer's Name:	Food additive, beverage sweetener, flavor enhancer, baking ingredient, intended for human consumption No restrictions on use	
		United Sugar Producers and Refiners 8000 West 78 th St., Suite 300 Edina, MN 55439		
		Emergency Telephone Number: 701-261-0660		
		Information Telephone Number: 800-984-3585		
Section 2	Hazard(s) Identification	No Hazardous Components	The dust generated by the transportation and	
		Sugar itself supports combustion only poorly and is not by itself a hazard unless it is involved as a secondary fuel in an existing fire.	handling of sugar is an explosion hazard; 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, D(+)Saccharose; C_{12} H ₂₂ O ₁₁ IUPAC: (2R,3R,4S,5S,6R)-2-	Table sugar, white sugar, fine gran sugar, sugar, natural sweetener	
		[(2S,3S,4S,5R)-3,4-dihydroxy-2, 5- bis(hydroxymethyl) oxolan-2-yl] oxy-6- (hydroxymethyl) oxane-3,4,5-triol]	CAS 57-50-1 UNII C151H8M554 EINECS 200-334-9	
		beta-D-Fructofuranosyl-alpha D glucopyranoside	RTECS WN6500000 CHEMBL 253582	
		alpha-D-Gluco pyranosyl beta-D- fructofuranoside	Pure product (organic compound)	
Section	First Aid Measures			
4		INHALED: 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	EYES: Mechanical irritant (red, watery, sore eyes). Flush granular material with running water, holding eyelids open. Get medical help if symptoms persist.	
Granulated			Page 1 of 4	

Granulated Sugar

Page 1 of 4



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. Remove ignition sources.	Store in doors in areas of low humidity away from sources of moisture to avoid caking. In case of caking in large capacity storage vessels, personnel working inside the vessel should not stand under large cakes of sugar which could break loose and fall on those personnel.

Granulated Sugar

Page 2 of 4



Section 8	Exposure 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. Pre-existing respiratory conditions: use approved mask.		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 ₂ 0 = 1)	1.587	LEL	Dust 20 g/m ³
		Vapor Pressure (mm Hg.)	5.15E-17	UEL	Dust 15 kg/m ³
		Vapor Density (AIR = 1)	N/A		
		Evaporation Rate Butyl (Acetate = 1)	N/A	Appearance and O	dor: White
		 Solubility in Water: 2.07 grams per gram w 331 grams per 100 gra 70° C 		Appearance and Odor: White, crystalline solid (monoclinic sphenoidal); odorless to a characteristic caramel odor.	
Section 10	Stability and Reactivity	Stable under ordinary conc and storage. Hazardous po will NOT occur. Avoid temperatures above flames, ignition sources, ar incompatibles	olymerization 160° F; heat,	Avoid strong oxidizers (e.g. nitric acid or sulfuric acid). Thermal decomposition or burning will produce carbon dioxide, carbon monoxide	

Granulated Sugar

Page 3 of 4



			1
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	Other Information	Note: sugar dust is explosive, similar to flour and grain products.	
16		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
			Preparation Date: 10/10/2023 Revised: New
Granulated S	Sugar		Page 4 of 4

Granulated Sugar

Page 4 of 4

20231001_USPR_SDS_GRANULATED