

## SAFETY DATA SHEET - LIGHT (or DARK) BROWN GRANULATED

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

Section	Identification	Light (or Dark) Brown	
'		Granulated Sugar	
		Manufacturer's Name:	Food additive, beverage sweetener, flavor
		United Sugar Producers and Refiners 8000 West 78 <sup>th</sup> St., Suite 300	enhancer, baking ingredient, intended for human consumption
		Edina, MN 55439	No restrictions on use
		Emergency Telephone Number: <b>701-261-0660</b>	
		Information Telephone Number: <b>800-984-3585</b>	
Section 2	Hazard(s) Identification	No Hazardous Components  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.	The dust generated by the transportation and 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	Composition/Information		Table sugar, beet sugar, natural sweetener
3	on Ingredients	Sucrose, sugar, Saccharose; C <sub>12</sub> H <sub>22</sub> O <sub>11</sub> : 92%  IUPAC: (2R,3R,4S,5S,6R)-2- [(2S,3S,4S,5R)-3,4-dihydroxy-2,5-	CAS 57-50-1 EINECS 200-334-9 Pure product (organic compound)
		bis(hydroxymethyl) oxolan-2-yl] oxy-6- (hydroxymethyl) oxane-3,4,5-triol]	Highly variable, innocuous composition of saccharides, amino and carboxylic acids, minerals, and salts from the processing of sugar cane.
Section 4	First Aid Measures	INHALED: not expected to require first aid.	EYES: Possible mechanical irritant. 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. Thermal decomposition or burning will produce carbon dioxide, carbon monoxide.  Normal fire dept SOP for precautions and PPE.	Though brown sugars are moist due to molasses content, it is conceivable that large amounts of brown sugar could dry out due to improper storage and handling; the dust of the dried sugar is explosive, similar to flour and grain products.
Section 6	Accidental Release Measures	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.	Clean-up personnel should wear non-slip footwear.
Section 7	Handling and Storage	No special handling is required. In cases of plugged material-handling piping or enclosed scrolls, avoid using steam to loosen material in plugged piping (please see §16, Other Information).	Store in-doors in temperature and humidity-controlled areas between 40–85° F (5–30° C) and 40–65% relative humidity 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.

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Section 8	Exposure Controls/Personal Protection	None normally required. Dust is not normally a consideration with brown sugars.  Wearing of contact lenses when handling product should be avoided.		In cases of water being used to flush spilled material, floors and steps may become sticky; wear non-slip footwear and use caution when negotiating floors and steps.	
Section 9	Physical and Chemical Properties	Melting Point	160–186° C (320–367° F)	Flash Point	N/A
		Boiling Point	N/A	Flammable Limits	N/A
		Specific Gravity (H <sub>2</sub> 0 = 1)	1.587	LEL	N/A
		Vapor Pressure (mm Hg.)	5.15E-17	UEL	N/A
		Vapor Density (AIR = 1)	N/A		
		Evaporation Rate Butyl (Acetate = 1)	N/A		
		Greater than 67% @ 25° C	>	Appearance and Odor: Light or dark brown, slightly moist, crystalline solid; molasses odor.	
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		Avoid strong oxidizers (e.g. nitric acid or sulfuric acid).  Thermal decomposition or burning will produce carbon dioxide, carbon monoxide	

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Section 11	Toxicological Information	Non-toxic	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: though brown sugars are moist due to molasses conte conceivable that large amounts of brown sugar could dry out improper storage and handling; the dust of the dried sugar is e similar to flour and grain products.		
		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	
		Very rarely, hot sugar products and their syrups have been known exhibit "runaway behavior" under the combined conditions of presence of amino acids; (2) enclosed space including piping we pressure can build up; (3) temperatures above 110° C; (4) exter periods of time (generally less than 5 hours); (5) lowered pH; (6) increased viscosity; (7) lack of adequate thermal transfer. Thouge extremely rare, explosions have been known to occur under the combined conditions. See Platje, T. et al. (2006): "Study of the 'Behavior' of Technical Sucrose Solutions." Zuckerindustrie 131, Avoid using steam to loosen material in plugged piping.		
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