

100 Galleria Pkwy Ste 1400 Atlanta, GA 30339 678.741.8275 natsugar.com

### Safety Data Sheet

Section 1: Identification	
Product identifier	
Product Name	Granulated Sugar
Product Code	• N/A
Relevant identified uses of the subs	stance or mixture and uses advised against
Recommended use	Human Food and Sweetening Agent
Details of the supplier of the safety	data sheet
Company	National Sugar Marketing 100 Galleria Parkway SE Suite 1400 Atlanta, GA 30339
Telephone (General)	• 678-741-8275
Emergency telephone number	
Manufacturer	Varies, please contact 678-741-8275

### Section 2: Hazard Identification

United States (US) According to OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

OSHA HCS 2012	
Label elements	
OSHA HCS 2012	Product is subject to labeling requirements of Federal Food, Drug, and Cosmetic Act, 21 U.S.C. 301 <i>et seq.</i> (29 CFR §1910.1200(5)(iii)
Explosive	
OSHA PEL	Product is explosive if TWA Dust = 15 milligrams of substance per cubic meter of air (15 mg/m³). (29 CFR §1926.55 Appendix A)
NIOSH REL	Product is explosive if TWA Dust = 10 milligrams of substance per cubic meter of air (10 mg/m <sup>3</sup> ). (The National Institute for Occupational Safety and Health)



Inhalation	
OSHA PEL	<ul> <li>Product is an inhalation irritant if TWA = 5 milligrams of substance per cubic meter of air (5 mg/m<sup>3</sup>). (29 CFR §1926.55 Appendix A)</li> </ul>
NIOSH REL	<ul> <li>Product is an inhalation irritant if TWA = 5 milligrams of substance per cubic meter of air (5 mg/m<sup>3</sup>). (The National Institute for Occupational Safety and Health)</li> </ul>
Other	<ul> <li>Product has no hazardous components. (29 CFR §1910.1200)</li> </ul>
Note	<ul> <li>SDS data pertains to the product as delivered in the original shipping container(s). Risks of adverse effects are lessened by following all prescribed safety precautions including the use of proper personal protective equipment.</li> </ul>

Substances	
Synonyms	<ul> <li>Sugar</li> <li>Saccharose</li> <li>α-D-glucopyranosyl-(1→2)-β-D-fructofuranoside</li> <li>β-D-fructofuranosyl-(2→1)-α-D-glucopyranoside</li> </ul>
CAS No.	• 57-50-1
Formula	• C <sub>12</sub> H <sub>22</sub> O <sub>11</sub>
Molecular Weight	• 342.30 g/mol

Section 4: First Aid Measures	
Description of first aid measures	
Еуе	• Flush eyes immediately with copious amounts of water.
Inhalation	• Move affected person to fresh air. Administer oxygen if breathing is difficult.
Note	• Eye and respiratory discomfort may be experienced at high dust concentrations. Pre-existing respiratory conditions or allergies may be aggravated.

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Section 5: Fire-Fighting Measures	
Extinguishing Media	
Suitable Extinguishing Media	• Extinguish with water, foam, carbon dioxide, or dry powder.
Special Hazards	
Combustible Dust	• When TWA Dust = 15 milligrams of substance per cubic meter of air. (29 CFR §1926.55 Appendix A)
Hazardous Combustion Products	Carbon Oxides
Hazardous Decomposition	• When heated acrid smoke and fumes are emitted.
Hazardous Reactivities & Incompatibilities	Oxidizers, sulfuric acid, and nitric acid
Ignition Temperature	• 420°C
Advice for Firefighters	• Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

#### Section 6: Accidental Release Measures

Personal precautions, protective equip	ment and emergency procedures
Personal Precautions •	Avoid dust formation. Avoid breathing vapors, mist or gas. Wear appropriate personal protective equipment.
Methods and material for containment	and cleaning up
Spill Cleanup •	Sweep up spilled substance and remove to safe place. Dust deposits should not be allowed to accumulate on surfaces, as this may form an explosive mixture if released into the atmosphere in sufficient concentration. Non-sparking tools should be used.
Section 7: Handling and Storage	
Precautions for safe handling	

Handling

• Minimize dust generation and accumulation. Provide appropriate exhaust ventilation at places where dust may form.



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#### Conditions for safe storage, including any incompatibilities

Storage	• Store at ambient temperature and humidity. Temperature should be less than 32° C Relative humidity should be less than 70%. Precautions should be taken to provide for adequate electrical grounding and bonding, or inert atmospheres. Refer to NFPA 654: Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids 2013 edition, for safe handling. Also refer to NFPA 61: Standard for the Prevention of Fires and Dust Explosions in Agricultural and Food Processing Facilities 2013 edition.
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Section 8: Exposure Controls/Personal Protection	
Exposure Limits	
Explosive	
OSHA PEL	<ul> <li>Product is explosive if TWA Dust = 15 milligrams of substance per cubic meter of air (15 mg/m<sup>3</sup>). (29 CFR §1926.55 Appendix A)</li> </ul>
NIOSH REL	<ul> <li>Product is explosive if TWA Dust = 10 milligrams of substance per cubic meter of air (10 mg/m<sup>3</sup>). (The National Institute for Occupational Safety and Health)</li> </ul>
Inhalation	
OSHA PEL	<ul> <li>Product is an inhalation is an irritant if TWA = 5 milligrams of substance per cubic meter of air (5 mg/m<sup>3</sup>). (29 CFR §1926.55 Appendix A)</li> </ul>
NIOSH REL	<ul> <li>Product is an inhalation is an irritant if TWA = 5 milligrams of substance per cubic meter of air (5 mg/m<sup>3</sup>). (The National Institute for Occupational Safety and Health)</li> </ul>
Exposure Controls	
Engineering Controls	• Ventilation should be matched to conditions. Local exhaust ventilation or other engineering controls should be used to maintain airborne levels to an acceptable level. Explosion suppression systems are advised. Use only electrical equipment and powered industrial trucks classified for the appropriate conditions.



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Respiratory Protection
 Respirators are to be used if exposure exceeds recommended limits. NIOSH – approved dust mask may be used in dusty conditions.
 Hygiene Measures
 Current Good Manufacturing Practices should be followed. Referto U.S. Food and Drug Administration Code of Federal Regulations 21 CFR 110.

Key to abbreviations

NIOSH = National Institute of Occupational Safety and Health OSHA = Occupational Safety and Health Administration TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures.

#### Section 9: Physical and Chemical Properties

Material Description	
Appearance	Crystalline solid
Color	• White
Density	• 1.5805 g/cu cm @ 17° C
Melting Point	• 185.5° C
Molecular Formula	• C <sub>12</sub> H <sub>22</sub> O <sub>11</sub>
Molecular Weight	• 342.30 g/mol
Odor	• Sweet
Odor pH	<ul> <li>Sweet</li> <li>6 - 7 in 50% water solution</li> </ul>

Section 10: Stability and Reactivity		
Reactivity	•	No dangerous reaction know under conditions of normal use
Chemical stability	•	Stable product at normal temperatures
Incompatible Materials	٠	Oxidizers, sulfuric acid, and nitric acid
Conditions to avoid	٠	Excessive dust
Hazardous Decomposition	٠	When heated to decomposition acrid smoke and fumes are

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emitted.

Information on toxicological eff	ioete
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Carcinogens	None listed
Acute Toxicity Test results	• Oral LD50 (Rat): 29,700 mg/kg
Chronic Toxicity	<ul> <li>No additional adverse health effects noted</li> </ul>
Chronic roxicity	No additional adverse nearth effects noted
Other Acute	No additional adverse health effects noted
Section 12: Ecological Informat	ion
Toxicity	• Not dangerous to the environment based on ecotoxicity studies
Section 13: Disposal Considera	tions
General Information	• Dispose of waste in accordance with local authority requirements
Section 14: Transport Informat	ion
General Information	Transport in food grade containers/trailers
Other Information	No other transportation requirements
Section 15: Regulatory Informa	tion
OSHA	<ul> <li>OSHA HCS 2012</li> <li>29 CFR §1910.1200</li> <li>29 CFR §1926.55 Appendix A</li> </ul>
U.S. Federal Regulations	<ul> <li>Code of Federal Regulations Title 21 Part 110</li> </ul>

Section 16: Other Information



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Hazard Ratings

National Fire Protection Association (NFPA)

- Fire = 1
- Health = 0
- Reactivity = 0
- Specific Hazard = None

Preparation Date: Revision Date: Review Date: Version:	04/20/15 06/01/21 12/12/23 04
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To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

National Sugar Marketing 100 Galleria Parkway SE Suite 1400 Atlanta, GA 30339