

natsugar.com

Safety Data Sheet

Section 1: Identification

Product identifier

Product Name

• Powdered Sugar

Product Code

• N/A

Relevant identified uses of the substance 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

• Dust explosion potential

Nuisance dust

Label elements

OSHA HCS 2012
 Product is subject to labeling requirements of Federal Food, Drug,

and Cosmetic Act, 21 U.S.C. 301 et seg. (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 = 15 milligrams of substance per

cubic meter of air (15 mg/m³). (The National Institute for Occupational

Safety and Health)



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

Inhalation

OSHA PEL

 Product is an inhalation irritant if TWA = 5 milligrams of substance per cubic meter of air (5 mg/m³). (29 CFR §1926.55 Appendix A)

NIOSH REL

 Product is an inhalation irritant if TWA = 5 milligrams of substance per cubic meter of air (5 mg/m³). (The National Institute for Occupational Safety and Health)

Other

Product has no hazardous components. (29 CFR §1910.1200)

Note

 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.

Section 3: Composition/Information on Ingredients

Substances

Product does not meet the criteria of a substance.

Mixtures

Hazardous Components								
Chemical Name	Identifiers	%(Weight)	LD50/LC50	Classifications According to Regulation/Directive	Comments			
Sucrose	CAS No.: 57-50-1	96%	Oral LD50 (Rat): 29,700 mg/kg	OSHA HCS 2012: No classification per Electronic Code of Federal Regulations. (n.d.). Retrieved March 31, 2015, from http://www.ecfr.gov/ Appendix B.1.3.1 (Note) to §1910.1200	NDA			
Corn Starch	CAS No.: 9005-84-9	4%	NDA	OSHA HCS 2012: No Classification	NDA			

Section 4: First Aid Measures

Description of first aid measures

Eye

• Flush eyes immediately with copious amounts of water.

Inhalation

 Move affected person to fresh air. Administer oxygen if breathing is difficult.



natsugar.com

Note

 Eye and respiratory discomfort may be experienced at high dust concentrations. Pre-existing respiratory conditions or allergies may be aggravated.

Section 5: Fire-Fighting Measures

Extin	าเแรห	าเทต	Media
	guioi	9	modia

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

 Use care when using high pressure water streams to avoid creating airborne dust. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Section 6: Accidental Release Measures

Personal precautions, protective equipment 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 mixture 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. Wash with water after major volume of spill is cleaned up.

Section 7: Handling and Storage



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

Precautions for safe handling

Handling

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

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.

Section 8: Exposure Controls/Personal Protection

Exposure	Limits
----------	--------

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/m³). (The National Institute for Occupational Safety and Health)

Inhalation

OSHA PEL

 Product is an inhalation irritant if TWA = 5 milligrams of substance per cubic meter of air (5 mg/m³). (29 CFR §1926.55 Appendix A)

NIOSH REL

 Product is an inhalation irritant if TWA = 5 milligrams of substance per cubic meter of air (5 mg/m³). (The National Institute for Occupational Safety and Health)

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.

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. Refer to U.S. Food and Drug Administration Code of Federal Regulations 21 CFR 110.



natsugar.com

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 • Powder • White

Density24-30 lbs./cu ft.

Melting Point • 186° C

Molecular Formula • Sucrose: C₁₂H₂₂O₁₁

• Corn Starch: C₂₇H₄₈O₂₀

Molecular Weight • 356.32 g/mol

Odor • Sweet

pH • 6 − 7 in 50% water solution

Solubility in Water

• Sucrose is very soluble in water (200 gm/100gm water at 20° C

• Corn starch is insoluble

Taste • Sweet

Section 10: Stability and Reactivity

Reactivity

• No dangerous reaction know under conditions of normal use

Chemical stability • Stable product at normal temperatures

Incompatible Materials

• Oxidizers, sulfuric acid, and nitric acid

Conditions to avoid • Excessive dust

Hazardous Decomposition • When heated to decomposition acrid smoke and fumes are emitted.

Section 11: Toxicological Information

Information on toxicological effects

Carcinogens • None listed

Acute Toxicity



natsugar.com

Test results

• Sucrose: Oral LD50 (Rat): 29,700 mg/kg

Corn Starch: No data available

Chronic Toxicity
 No additional adverse health effects noted

Other Acute

• No additional adverse health effects noted

Section 12: Ecological Information

Toxicity • Not dangerous to the environment based on ecotoxicity studies

Section 13: Disposal Considerations

General Information
• Dispose of waste in accordance with local authority requirements

Section 14: Transport Information

General Information • Transport in food grade containers/trailers

Other Information
• No other transportation requirements

Section 15: Regulatory Information

• 29 CFR §1910.1200

29 CFR §1926.55 Appendix A

U.S. Federal RegulationsCode of Federal Regulations Title 21 Part 110

Section 16: Other Information

Hazard Ratings

National Fire Protection Association (NFPA)

• Fire = 0

Health = 0

Reactivity = 0

• Specific Hazard = None

Preparation Date: 07/28/15 Revision Date: 06/01/21



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

Review Date: 12/12/23 Version: 04 Supersedes: 03

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