

## Safety Data Sheet

### Section 1: Identification

#### Product identifier

- Product Name** • Brown Sugar (Light and Dark)
- 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** • No hazards exists

#### Label elements

- OSHA HCS 2012** • Product is subject to labeling requirements of Federal Food, Drug, and Cosmetic Act, 21 U.S.C. 301 *et seq.* (29 CFR §1910.1200(5)(iii))

- 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	90%	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 <a href="http://www.ecfr.gov/Appendix B.1.3.1 (Note) to §1910.1200">http://www.ecfr.gov/Appendix B.1.3.1 (Note) to §1910.1200</a>	NDA
Cane Molasses	CAS No.: 68476-78	10%	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

- No action necessary.

#### Skin

- No action necessary.

#### Ingestion

- No action necessary.

## Section 5: Fire-Fighting Measures

### Extinguishing Media

#### Suitable Extinguishing Media

- Extinguish with water.

### Special Hazards

#### Hazardous Decomposition

- Decomposition due to heat will produce carbon dioxide, carbon monoxide.

## Hazardous Reactivities & Incompatibilities

- Oxidizers, sulfuric acid, and nitric acid

## Ignition Temperature

- Requires external ignition source. Class “A” combustible material.

## 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 equipment and emergency procedures

#### Personal Precautions

- Wear appropriate personal protective equipment.

### Methods and material for containment and cleaning up

#### Spill Cleanup

- Sweep up spilled substance and remove to safe place. Wash with water. Dispose in accordance with current local authority regulations.

## Section 7: Handling and Storage

### Precautions for safe handling

#### Handling

- No specific handling instructions.

### 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%.

## Section 8: Exposure Controls/Personal Protection

### Exposure Limits

#### Explosive

- None

#### Inhalation

- None

### Exposure Controls

#### Respiratory Protection

- None

#### Hygiene Measures

- Current Good Manufacturing Practices should be followed. Refer

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

## Section 9: Physical and Chemical Properties

### Material Description

Appearance	<ul style="list-style-type: none"><li>• Light to dark brown crystalline solid</li></ul>
Color	<ul style="list-style-type: none"><li>• Light to dark brown</li></ul>
Specific Gravity (H <sub>2</sub> O = 1)	<ul style="list-style-type: none"><li>• 1.587</li></ul>
Melting Point	<ul style="list-style-type: none"><li>• 160-186 °C</li></ul>
Molecular Formula	<ul style="list-style-type: none"><li>• C<sub>12</sub>H<sub>22</sub>O<sub>11</sub> (Chemical Family)</li></ul>
Molecular Weight	<ul style="list-style-type: none"><li>• 96.0858 g/mol</li></ul>
Odor	<ul style="list-style-type: none"><li>• Molasses odor</li></ul>
pH	<ul style="list-style-type: none"><li>• 6 – 7 in 50% water solution</li></ul>
Solubility in Water	<ul style="list-style-type: none"><li>• Very soluble in water (200gm/100gm water at 20 °C)</li></ul>
Taste	<ul style="list-style-type: none"><li>• Sweet</li></ul>

## Section 10: Stability and Reactivity

Reactivity	<ul style="list-style-type: none"><li>• No dangerous reaction know under conditions of normal use</li></ul>
Chemical stability	<ul style="list-style-type: none"><li>• Stable product at normal temperatures</li></ul>
Incompatible Materials	<ul style="list-style-type: none"><li>• Oxidizers, sulfuric acid, and nitric acid</li></ul>
Conditions to avoid	<ul style="list-style-type: none"><li>• None</li></ul>
Hazardous Decomposition	<ul style="list-style-type: none"><li>• When heated to decomposition produces carbon dioxide, carbon monoxide.</li></ul>

## Section 11: Toxicological Information

### Information on toxicological effects

Carcinogens	<ul style="list-style-type: none"><li>• None listed</li></ul>
Acute Toxicity	<ul style="list-style-type: none"><li>• Non-toxic to humans</li></ul>
Chronic Toxicity	<ul style="list-style-type: none"><li>• No additional adverse health effects noted</li></ul>

Other Acute

- No additional adverse health effects noted

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## Section 12: Ecological Information

Toxicity

- Not dangerous to the environment based on ecotoxicity studies

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## Section 13: Disposal Considerations

General Information

- Dispose of waste in accordance with local authority requirements

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## Section 14: Transport Information

General Information

- Transport in food grade containers/trailers

Other Information

- No other transportation requirements

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## Section 15: Regulatory Information

OSHA

- OSHA HCS 2012
- 29 CFR §1910.1200
- 29 CFR §1910.1200 Appendix B.1

U.S. Federal Regulations

- Code of Federal Regulations Title 21 Part 110

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## Section 16: Other Information

Hazard Ratings

National Fire Protection Association (NFPA)

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

Abbreviations and acronyms – The following abbreviations may be used in this document.

- C      Celsius
- F      Fahrenheit

- CAS Chemical Abstracts Service
- CFR Code of Federal Regulations
- gm Grams
- g/cu cm Grams per Cubic Centimeter
- g/mol Grams per Molar Mass
- HCS Hazard Communication Standard
- LC50 Lethal concentration, 50%
- LD50 Lethal dose, 50%
- mg/kg Milligrams per Kilogram
- NIOSH National Institute of Occupational Safety and Health
- OSHA Occupational Safety and Health Administration
- PEL Permissible Exposure Limit
- RDS Refractive Dry Substance
- REL Recommended Exposure Limits
- TWA Time-Weighted Averages are based on 8h/day, 40h/week exposures

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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.

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