

## Safety Data Sheet

### Section 1: Identification

#### Product identifier

- Product Name** • **Invert 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 LLC  
100 Galleria Parkway SE  
Suite 1400  
Atlanta, GA 30339

- Telephone (General)** • 208-383-6500

#### Emergency telephone number

- Manufacturer** • 208-383-6515 – Mike Fowers

### Section 2: Hazard Identification

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

#### Classification of the substance or mixture

- OSHA HCS 2012** • Not classified as hazardous

#### 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))

- Eye** • Not Applicable

- Inhalation** • Not Applicable

- 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

<b>Synonyms</b>	<ul style="list-style-type: none"><li>• Calorose</li><li>• Insubeta</li><li>• Inverdex</li><li>• Invertogen</li><li>• Invertose</li><li>• Nulomoline</li><li>• Travert</li></ul>
<b>CAS No.</b>	<ul style="list-style-type: none"><li>• 8013-17-0</li></ul>
<b>Formula</b>	<ul style="list-style-type: none"><li>• C<sub>12</sub>H<sub>24</sub>O<sub>12</sub></li></ul>
<b>Hazardous Substances Databank No.</b>	<ul style="list-style-type: none"><li>• 2008</li></ul>
<b>Weight</b>	<ul style="list-style-type: none"><li>• 76.0 – 78.0 RDS</li></ul>

## Section 4: First Aid Measures

### Description of first aid measures

<b>Eye</b>	<ul style="list-style-type: none"><li>• Flush eyes immediately with copious amounts of water.</li></ul>
<b>Ingestion</b>	<ul style="list-style-type: none"><li>• No action necessary</li></ul>
<b>Inhalation</b>	<ul style="list-style-type: none"><li>• No action necessary</li></ul>
<b>Skin</b>	<ul style="list-style-type: none"><li>• No action necessary</li></ul>

## Section 5: Fire-Fighting Measures

### Extinguishing Media

<b>Suitable Extinguishing Media</b>	<ul style="list-style-type: none"><li>• None</li></ul>
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### Special Hazards

<b>Hazardous Combustion Products</b>	<ul style="list-style-type: none"><li>• None</li></ul>
<b>Hazardous Decomposition</b>	<ul style="list-style-type: none"><li>• None</li></ul>
<b>Hazardous Reactivities &amp; Incompatibilities</b>	<ul style="list-style-type: none"><li>• None</li></ul>
<b>Ignition Temperature</b>	<ul style="list-style-type: none"><li>• None</li></ul>

## Advice for Firefighters

- None

## Section 6: Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures

#### Personal Precautions

- None

### Methods and material for containment and cleaning up

#### Spill Cleanup

- Mechanical means then wash with water.

## Section 7: Handling and Storage

### Precautions for safe handling

#### Handling

- No special requirements

### Conditions for safe storage, including any incompatibilities

#### Storage

- Store at ambient temperature and humidity. Temperature should be less than 32° C. Store no longer than 14 days.

## Section 8: Exposure Controls/Personal Protection

#### Exposure Limits

- None

#### Exposure Controls

#### Eye Protection

- Optional

#### 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

- Syrup

#### Color

- Water white to light straw-colored liquid

#### Boiling Point

- 551.7 °C at 760 mmHg

#### Flash Point

- 301.5 °C

<b>Molecular Formula</b>	<ul style="list-style-type: none"><li>• <math>C_{12}H_{24}O_{12}</math></li></ul>
<b>Molecular Weight</b>	<ul style="list-style-type: none"><li>• 360.312 g/mol</li></ul>
<b>Odor</b>	<ul style="list-style-type: none"><li>• Sweet</li></ul>
<b>pH</b>	<ul style="list-style-type: none"><li>• 6 – 7 in 50% water solution</li></ul>
<b>Solubility in Water</b>	<ul style="list-style-type: none"><li>• Miscible with water in all proportions</li></ul>
<b>Taste</b>	<ul style="list-style-type: none"><li>• Sweet</li></ul>

## Section 10: Stability and Reactivity

<b>Reactivity</b>	<ul style="list-style-type: none"><li>• No dangerous reaction known under conditions of normal use</li></ul>
<b>Chemical stability</b>	<ul style="list-style-type: none"><li>• Stable product at normal temperatures</li></ul>
<b>Incompatible Materials</b>	<ul style="list-style-type: none"><li>• None</li></ul>
<b>Conditions to avoid</b>	<ul style="list-style-type: none"><li>• None</li></ul>
<b>Hazardous Decomposition</b>	<ul style="list-style-type: none"><li>• None</li></ul>

## Section 11: Toxicological Information

### Information on toxicological effects

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

## Section 12: Ecological Information

<b>Toxicity</b>	<ul style="list-style-type: none"><li>• Not dangerous to the environment based on ecotoxicity studies</li></ul>
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## Section 13: Disposal Considerations

<b>General Information</b>	<ul style="list-style-type: none"><li>• Dispose of waste in accordance with local authority requirements</li></ul>
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## Section 14: Transport Information

**General Information**

- Transport in food grade containers/trailers

**Other Information**

- No other transportation requirements

**Section 15: Regulatory Information****OSHA**

- OSHA HCS 2012
- 29 CFR §1910.1200
- 29 CFR §1926.55 Appendix A

**U.S. Federal Regulations**

- Code of Federal Regulations Title 21 Part 110
- Code of Federal Regulations Title 21 Part 184.1859

**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%

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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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