

## Material Safety Data Sheet RightSweet™ Mannitol

The Ingredient House, LLC. urges the customer receiving this Material Safety Data Sheet to study it carefully to become aware of hazards, if any, of the product involved. In the interest of safety you should (1) notify your employees, agents and contractors of the information on this sheet, (2) furnish a copy to each of your customers for the product and (3) request your customers to inform their employees and customers as well.

### 1. Identification of Substance

<b>Product:</b>	RightSweet™ Mannitol
<b>Supplier:</b>	The Ingredient House, LLC 5 Valley Road Pinehurst, NC 28374 Telephone: 910-235-4491 Fax: 877-542-4844 E-mail: <a href="mailto:support@theingredienthouse.com">support@theingredienthouse.com</a> Web: <a href="http://www.theingredienthouse.com">www.theingredienthouse.com</a>
<b>Product Number:</b>	RMAN-100 (Powder), RMAN-101 (Standard), RMAN-102 (Course)

### 2. Product Identification

<b>Common Name:</b>	Mannitol
<b>Chemical Name:</b>	Hexan-1,2,3,4,5,6-Hexol
<b>Synonyms:</b>	D-Mannitol, Manna Sugar, Mannite, Hexan-1,2,3,4,5,6-Hexol
<b>CAS Number:</b>	69-65-8
<b>E Number:</b>	E 421
<b>Molecular Weight:</b>	182.172
<b>Chemical Formula:</b>	C <sub>6</sub> H <sub>14</sub> O <sub>6</sub>

### 3. Hazards Identification

This product is considered non-hazardous by the criteria specified in 29 CFR 1910.12.00 (Hazard Communication).

<b>Emergency Overview</b>	As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing. May cause slight irritation.
<b>Health Rating:</b>	0 – None
<b>Flammability Rating:</b>	2 – Moderate
<b>Reactivity Rating:</b>	0 – None
<b>Contact Rating:</b>	1 – Slight
<b>Lab Protective Equip:</b>	GOGGLES; LAB COAT
<b>Storage Color Code:</b>	Green (General Storage)
<b>Potential Health Effects</b>	
<b>Inhalation:</b>	No adverse health effects expected from inhalation.
<b>Ingestion:</b>	Ingestion of small amounts would not be expected to produce adverse effects. Ingestion of large amounts may produce gastrointestinal disturbances.
<b>Skin Contact:</b>	No skin irritation is expected from single, short-term exposure to this product. Prolonged or repeated contact may produce some irritation.
<b>Eye Contact:</b>	May cause slight eye irritation.
<b>Chronic Exposure:</b>	No information found.
<b>Aggravation of Pre-existing Condition:</b>	No information found.

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#### 4. First Aid Measures

<b>Inhalation:</b>	Not expected to require first aid measures. Treat symptoms and provide fresh air. Get medical advice if irritation develops.
<b>Ingestion:</b>	Not expected to require first aid measures. If material is swallowed in large quantity, give water and get medical advice.
<b>Skin Contact:</b>	Not expected to require first aid measures. Wash exposed area with soap and water. Get medical advice if irritation develops.
<b>Eye Contact:</b>	Not expected to require first aid measures. Wash thoroughly with running water including under eyelids. Get medical advice if irritation develops.

#### 5. Fire Fighting Measures

<b>Fire:</b>	Not considered to be a fire hazard.
<b>Explosion:</b>	Not considered to be an explosion hazard.
<b>Fire Extinguishing Media:</b>	Use any means suitable for extinguishing surrounding fire.
<b>Special Information:</b>	Use protective clothing and breathing equipment appropriate for the surrounding fire.

#### 6. Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.

#### 7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

Do not store near hazardous or odorous material.

#### 8. Exposure Controls/Personal Protection

<b>Airborne Exposure Limits:</b>	None established.
<b>Ventilation System:</b>	In general, dilution ventilation is a satisfactory health hazard control for this substance. However, if conditions of use create discomfort to the worker, a local exhaust system should be considered.
<b>Personal Respirators (NIOSH Approved):</b>	For conditions of use where exposure to the dust or mist is apparent, a half-face dust/mist respirator may be worn. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. <b>WARNING:</b> Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.
<b>Skin Protection:</b>	Wear protective gloves and clean body-covering clothing.
<b>Eye Protection:</b>	Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

#### 9. Physical and Chemical Properties

<b>Appearance:</b>	White crystalline powder.
<b>Odor:</b>	Odorless
<b>Solubility:</b>	Easily soluble
<b>pH of 40% Solution:</b>	4.0 to 7.0
<b>Specific Gravity:</b>	1.52
<b>Molecular Weight:</b>	182.172

<b>Melting Point:</b>	165 -168°C
<b>Sweetness:</b>	60% as sweet as sucrose

### 10. Stability and Reactivity

<b>Stability:</b>	Stable under ordinary conditions of use and storage.
<b>Hazardous Decomposition Products:</b>	Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
<b>Hazardous Polymerization:</b>	Will not occur.
<b>Incompatibilities:</b>	This product may react with oxidizing agents.
<b>Conditions to Avoid:</b>	Heat, flames, ignition sources and incompatibles.

### 11. Toxicology Information

<b>Toxicity Data:</b>	
<b>General Product Information:</b>	No information found.
<b>Component Analysis:</b>	No LD50 / LC 50's are available for this product.
<b>Carcinogen Status:</b>	
<b>General Product Information:</b>	No information found.
<b>Component Analysis:</b>	No components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

### 12. Ecological Information

<b>Environmental Fate:</b>	No information found.
<b>Environmental Toxicity:</b>	No information found.

### 13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

### 14. Transport Information

Not regulated.

### 15. Regulatory Information

CAS No. 69-65-8 is listed on the TSCA inventory.

### 16. Other Information

<b>NFPA Ratings:</b>	Health: <b>1</b> , Flammability: <b>1</b> , Reactivity: <b>0</b> .
<b>Label Hazard Warning:</b>	As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing.
<b>Label Precautions:</b>	Store in closed container. Avoid dust cloud. Maintain adequate ventilation.
<b>Label First Aid:</b>	Not applicable.

#### DISCLAIMER:

The information and recommendations contained in this Material Safety Data Sheet have been compiled from sources believed to be reliable and to represent the most reasonable current opinion on the subject when the MSDS was prepared. No warranty, guaranty or representation is made as to the correctness or sufficiency of the information. The user of this product must decide what safety measures are necessary to safely use this product, either alone or in combination with other products, and determine its environmental regulatory compliance obligations under any applicable federal, state or local laws.

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