



## Safety Data Sheet

Material Name: CERELOSE® Dextrose M NON-GMO IP 02001090

SDS ID: Dextrose-002

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### Section 1 - PRODUCT AND COMPANY IDENTIFICATION

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**Material Name**

CERELOSE® Dextrose M NON-GMO IP 02001090

**Synonyms**

Dextrose or Dextrose Monohydrate

**Product Description**

General purpose product for most food, beverage, and industrial uses.

**Details of the supplier of the safety data sheet**

Ingredion Incorporated

5 Westbrook Corporate Center

Westchester, IL 60154 USA

Phone: (708) 551-2600

Product Info/Customer Service: Business Hours:

Mon - Fri, 7:30 a.m. - 5:00 p.m. (CST)

Fax: (708) 551-2510

Ingredion Canada Corporation

1600-90 Burnhamthorpe Road West

Mississauga, ON L5B 0H9 Canada

Phone: (905) 281-7950

Product Info/Customer Service: Business Hours:

Mon - Fri, 7:30 a.m. - 6:00 p.m. (EST)

Fax: (905) 281-7951

Emergency Phone #: 1-800-424-9300  
(CHEMTREC)

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(CHEMTREC)

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### Section 2 - HAZARDS IDENTIFICATION

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**Classification in accordance with paragraph (d) of 29 CFR 1910.1200.**

- Combustible Dust

**GHS Label Elements****Symbol(s)**

None needed according to classification criteria

**Signal Word**

WARNING!

**Hazard Statement(s)**

May form combustible dust concentrations in air

**Precautionary Statement(s)****Prevention**

None needed according to classification criteria

**Response**

None needed according to classification criteria

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**Storage**

None needed according to classification criteria

**Disposal**

Dispose of contents/container in accordance with local/regional/national/international regulations

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**Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS**

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CAS	Component Name	Percent
50-99-7	Dextrose	100

**Component Related Regulatory Information**

ACGIH TLVs, as Particulates Not Otherwise Classified: 10 mg/m<sup>3</sup> (inhalable fraction) 3 mg/m<sup>3</sup> (respirable fraction). OSHA PELs, as Particulates Not Otherwise Regulated: 15 mg/m<sup>3</sup> (total dust) 5 mg/m<sup>3</sup> (respirable fraction).

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**Section 4 - FIRST AID MEASURES**

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**Inhalation**

Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.

**Skin**

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. If skin irritation occurs: Get medical advice/attention.

**Eyes**

Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.

**Ingestion**

If a large amount is swallowed, get medical attention.

**Most Important Symptoms/Effects****Acute**

None.

**Delayed**

None.

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## Section 5 - FIRE FIGHTING MEASURES

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### Extinguishing Media

#### Suitable Extinguishing Media

Carbon dioxide. Water spray. Foam.

#### Unsuitable Extinguishing Media

None.

### Special Hazards Arising from the Chemical

May form combustible dust concentrations in air. This material can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe). Use explosion-proof electrical equipment. Contact with combustible material may cause fire.

### Fire Fighting Measures

Remove product from area of fire. Wet the material with water to limit dust emission or explosion. Suitable extinguishing media. Avoid inhalation of the product. Stay upwind/keep distance from source.

### Special Protective Equipment and Precautions for Firefighters

In case of fire: Wear self-contained breathing apparatus. Wear suitable protective clothing.

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## Section 6 - ACCIDENTAL RELEASE MEASURES

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### Personal Precautions, Protective Equipment and Emergency Procedures

See protective measures under point 7 and 8.

### Methods and Materials for Containment and Cleaning Up

Avoid generation of dust. Remove all sources of ignition. Ensure that the equipment is adequately grounded. Dispose of contents/container in accordance with local/regional/national/international regulations.

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## Section 7 - HANDLING AND STORAGE

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### Precautions for Safe Handling

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take care for general good hygiene and housekeeping.

### Conditions for Safe Storage, Including any Incompatibilities

None needed according to classification criteria

Store in accordance with local/regional/national/international regulations. Store in a well-ventilated place. Keep container tightly closed. Store in a dry place. Avoid generation of dust.

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### Incompatible Materials

Oxidizing agents. Combustible substance.

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## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

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### Component Exposure Limits

ACGIH, NIOSH, EU, OSHA (US) and Mexico have not developed exposure limits for any of this product's components

### Biological limit value

There are no biological limit values for any of this product's components.

### Engineering Controls

Ventilation equipment should be explosion-resistant if explosive concentrations of material are present. Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).

### Individual Protection Measures, such as Personal Protective Equipment

#### Eye/face protection

If eye contact is likely, wear chemical resistant safety goggles.

#### Skin Protection

Protective clothing is not required under normal conditions.

#### Respiratory Protection

Respiratory protection is not required under normal conditions of use. If respirable dusts are generated, respiratory protection may be needed.

#### Glove Recommendations

Protective gloves are not required under normal conditions.

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## Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

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<b>Appearance</b>	Crystalline powder	<b>Physical State</b>	solid
<b>Odor</b>	No detectable foreign odor	<b>Color</b>	white
<b>Odor Threshold</b>	Not available	<b>pH</b>	Not available
<b>Melting Point</b>	Not available	<b>Boiling Point</b>	Not available
<b>Freezing point</b>	Not available	<b>Evaporation Rate</b>	Not available
<b>Boiling Point</b>	Not available	<b>Flammability (solid, gas)</b>	Not available

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<b>Range</b>			
<b>Autoignition</b>	Not available	<b>Flash Point</b>	Not available
<b>Lower Explosive Limit</b>	Not available	<b>Decomposition</b>	Not available
<b>Upper Explosive Limit</b>	Not available	<b>Vapor Pressure</b>	Not available
<b>Vapor Density (air=1)</b>	Not available	<b>Specific Gravity (water=1)</b>	Not available
<b>Water Solubility</b>	(soluble)	<b>Partition coefficient: n-octanol/water</b>	Not available
<b>Viscosity</b>	Not available	<b>Solubility (Other)</b>	Not available
<b>Density</b>	57 Lbs./ft <sup>3</sup> (packing density)	<b>KSt-value (bar x m/s)</b>	(See "Other Information" below)
<b>Taste</b>	Clean typical taste		

**Other Information**

Material Dust Explosivity Parameters: KSt-value (bar x m/s): 155. Maximum explosion pressure (Pmax) bar: 7.9. Maximum rate of pressure rise ((dp/dt)max) bar/s: 573. Testing in accordance with American Society of Testing Materials (ASTM E1226). This data provides a relative measure of deflagration characteristics used for design of explosion protection systems. Refer to NFPA 654, 68, and 69 for guidance on explosion mitigation.

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**Section 10 - STABILITY AND REACTIVITY**

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**Reactivity**

No known hazardous reactions.

**Chemical Stability**

The product is stable under storage at normal ambient temperatures.

**Possibility of Hazardous Reactions**

None.

**Conditions to Avoid**

Avoid generation of dust. Remove all sources of ignition.

**Incompatible Materials**

Oxidizing agents. Combustible substance.

**Hazardous decomposition products**

Carbon dioxide. Carbon monoxide.

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**Section 11 - TOXICOLOGICAL INFORMATION**

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**Information on Likely Routes of Exposure**

**Inhalation**

May cause respiratory irritation.

**Skin Contact**

No data available.

**Eye Contact**

Irritation to eyes. Corneal opacity.

**Ingestion**

No data available.

**Acute and Chronic Toxicity**

**Component Analysis - LD50/LC50**

The components of this material have been reviewed in various sources and the following selected endpoints are published:

Dextrose (50-99-7)

Oral LD50 Rat 25800 mg/kg

**Immediate Effects**

No data available.

**Delayed Effects**

No data available.

**Irritation/Corrosivity Data**

No data available.

**Respiratory Sensitization**

No data available.

**Dermal Sensitization**

No data available.

**Component Carcinogenicity**

None of this product's components are listed by ACGIH, IARC, NTP, DFG or OSHA

**Germ Cell Mutagenicity**

No data available.

**Reproductive Toxicity**

No data available.

**Specific Target Organ Toxicity - Single Exposure**

No data available.

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### Specific Target Organ Toxicity - Repeated Exposure

No data available.

### Aspiration hazard

No data available.

### Medical Conditions Aggravated by Exposure

No data available.

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## Section 12 - ECOLOGICAL INFORMATION

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### Ecotoxicity

Avoid release to the environment.

### Component Analysis - Aquatic Toxicity

No LOLI ecotoxicity data are available for this product's components

### Persistence and Degradability

Biodegradable.

### Bioaccumulative Potential

No data available.

### Mobility

No data available.

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## Section 13 - DISPOSAL CONSIDERATIONS

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### Disposal Methods

Contain and dispose of waste according to local regulations.

### Component Waste Numbers

The U.S. EPA has not published waste numbers for this product's components

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## Section 14 - TRANSPORT INFORMATION

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### US DOT Information:

**Additional information:** Not regulated as a hazardous material

### TDG Information:

**Additional information:** Not regulated as a hazardous material

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### Section 15 - REGULATORY INFORMATION

#### U.S. Federal Regulations

None of this products components are listed under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

#### FDA - Direct Food Additive

No components of this material are listed.

#### FDA - Food additives Generally Recognized as Safe(GRAS)

The following component(s) of this product are listed on the FDA - Food additives Generally Recognized as Safe(GRAS):

Dextrose (50-99-7)

#### FDA - Food additives Generally Recognized as Safe(GRAS) –Select Committee on GRAS Substances(SCOGS)

The following component(s) of this product are listed on the FDA - Food additives Generally Recognized as Safe(GRAS) –Select Committee on GRAS Substances(SCOGS):

Dextrose (50-99-7)

#### FDA - Food additives Permitted in Food on an Interim Basis

No components of this material are listed.

#### FDA - Substances Prohibited from use in human food

No components of this material are listed.

#### U.S. State Regulations

None of this product's components are listed on the state lists from CA, MA, MN, NJ or PA

#### Not listed under California Proposition 65

#### Canada Regulations

Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL.

#### Component Analysis - Inventory

Dextrose (50-99-7)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes



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### Section 16 - OTHER INFORMATION

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#### Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States.

#### Other Information

##### Disclaimer:

The attached data has been compiled from sources which Ingredion Incorporated and the Ingredion group of companies, believe to be dependable and, to our knowledge and belief is accurate. However, Ingredion Incorporated and the Ingredion group of companies cannot make any warranty or representation respecting the accuracy or completeness of the data. We assume no responsibility for any liability or damages relating thereto, or for advising you regarding the protection of your employees, customers, or others. You should make your own tests to determine the applicability of such information to, or the suitability of any products for your specific use. Ingredion Incorporated and the Ingredion group of companies expressly disclaims all warranties, expressed or implied, including but not limited to, warranties of merchantability, accuracy, fitness for use or for a particular purpose, and noninfringement. The United Nations Convention on Contracts for the International Sale of Goods shall not apply to sales of products by Ingredion Incorporated and the Ingredion group of companies. The INGREDION mark and logo are trademarks of the Ingredion group of companies.