

## Safety Data Sheet

Sucrose

### Section 1 - Chemical Product and Company Identification

#### 1.1 Product Identifiers

**Product Name:** Sucrose  
**Catalog Numbers:** SB3250  
**CAS#:** 57-50-1  
**EC#:** 200-334-9  
**RTECS#:** WN6500000

#### 1.2 Recommended Use of the Chemical and restrictions of Use

Chemical manufacturing

#### 1.3 Company Identification:

BioSpectra, Inc.  
 100 Majestic Way  
 Bangor, Pa 18013  
 610-599-3400

#### 1.4 Emergency Numbers:

**US & Canada:** 1-800-424-9300  
**Outside the US & Canada:** +1 703-527-3887

### Section 2 – Hazards Identification

#### 2.1 Classification of substance or mixture

**GHS Classification in accordance with 29 CFR 1910.1200 (OSHA HCS)**  
 Combustible dust

#### 2.2 GHS Label Elements Including Precautionary Statements

**Pictogram:** None  
**Signal Word:** Warning  
**Hazard Statements:**  
 May form combustible dust concentrations in air.  
**Precautionary Statements:**  
 None

#### 2.3 Hazards not Classified or not Covered by the GHS

This substance is not considered to be persistent, bio accumulating nor toxic (PBT).

### Section 3 – Composition, Information on Ingredients

#### 3.1 Substances

Component	Classification	Concentration
Sucrose	Not Applicable	90-100%

**Molecular Formula:** C<sub>12</sub>H<sub>22</sub>O<sub>11</sub>

**Molecular Weight:** 342.30 g/mol.

**Synonyms:** α-D-Glucopyranosyl β-D-fructofuranoside  
 α-D-Glc-(1→2)-β-D-Fru  
 D(+)-Saccharose  
 Sugar  
 β-D-Fructofuranosyl-α-D-glucopyranoside

### Section 4 - First Aid Measures

#### 4.1 Description of Necessary First Aid Measures

**Eyes:** Flush eyes with plenty of water for at least 15 minutes. Get medical aid if irritation develops.

**Skin:** Wash with plenty of soap and water for at least 15 minutes. Get medical aid if irritation develops or persists.

**Ingestion:** Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If victim is conscious rinse out mouth with water. Get medical attention.

**Inhalation:** Remove to fresh air. If not breathing give artificial respiration.

#### 4.2 Most Important Symptoms/Effects, Acute and Delayed

Refer to Section 2.2 for Precautionary Statements if any are applicable

#### 4.3 Indication of Immediate Medical Attention and Special Treatment

No information available.

### Section 5 - Firefighting Measures

#### 5.1 Extinguishing Media

In case of fire, use water, dry chemical, alcohol-resistant foam, or carbon dioxide.

#### 5.2 Hazardous decomposition products

No information available.

#### 5.3 Special Equipment/Precautions for Firefighters

As with most organic solids, fire is possible at elevated temperatures or by contact with an ignition source. In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode. Explosion will appear as fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

#### 5.4 Other information

None available.

### Section 6 - Accidental Release Measures

#### 6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Use proper personal protective equipment as indicated in Section 8. Avoid dust formation. Avoid breathing dust, vapours, mist or gas.

## 6.2 Environmental Precautions

Do not allow to enter drains.

## 6.3 Methods and Materials for Containment and Cleaning Up

Remove all sources of ignition. Do not let enter drains. Ventilate area of leak or spill. Clean up spills in a manner that does not disperse dust into the air. Use non-sparking tools and equipment. Reduce airborne dust and prevent scattering by moistening with water. Pick up spill for recovery or disposal and place in a closed container.

## 6.4 Other information

None available.

## Section 7 - Handling and Storage

### 7.1 Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed.

### 7.2 Conditions for Storage Including any Incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

### 7.3 Other information

None available.

## Section 8 - Exposure Controls, Personal Protection

### 8.1 Control parameters

#### Components with workplace control parameters

Component	CAS-No.	Value	Control Parameters	Basis
Sucrose	57-50-1	TWA	10 mg/m <sup>3</sup>	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Dental erosion. Not classifiable as a human carcinogen.		
		TWA	15 mg/m <sup>3</sup>	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	5 mg/m <sup>3</sup>	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	5 mg/m <sup>3</sup>	USA. NIOSH Recommended Exposure Limits
		TWA	10 mg/m <sup>3</sup>	USA. NIOSH Recommended Exposure Limits

### 8.2 Engineering Controls

Use adequate ventilation to keep airborne concentrations low.

### 8.3 Personal Protective Equipment

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin:** Wear appropriate protective gloves to prevent skin exposure. Wear impervious gloves. Nitrile rubber with layer thickness 0.11mm. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

## Section 9 - Physical and Chemical Properties

<b>Physical State:</b> Solid	<b>Melting Point:</b> 185-187 °C (365-369 °F)
<b>Appearance:</b> White crystals	<b>Boiling Point:</b> Not Available
<b>Odor:</b> Odorless	<b>Decomposition Temperature:</b> Not available.
<b>pH:</b> 5.5 – 7.5 at 342 g/l at 25 °C (77 °F)	<b>Solubility:</b> 342 g/L @ 20°C – completely soluble
<b>Vapor Pressure:</b> Not Available	<b>Specific Gravity/Density:</b> Not Available
<b>Vapor Density:</b> Not Available	<b>Molecular Formula:</b> C <sub>12</sub> H <sub>22</sub> O <sub>11</sub>
<b>Viscosity:</b> Not available	<b>Molecular Weight:</b> 342.30 g/mol

## Section 10 - Stability and Reactivity

### 10.1 Chemical Stability

Stable under normal temperatures and pressures.

### 10.2 Conditions to Avoid

Dust generation, excess heat.

### 10.3 Incompatibilities with Other Materials

Strong oxidizing agents.

### 10.4 Hazardous Decomposition Products

No information available.

### 10.5 Hazardous Polymerization

Will not occur.

## Section 11 - Toxicological Information

### 11.1 Toxicological effects

#### LD50/LC50:

LD50: Oral - Rat - 29,700 mg/kg

Remarks: Behavioral: Somnolence (general depressed activity). Cyanosis  
Diarrhea.

**Carcinogenicity:** 57-50-1 is not listed by ACGIH, IARC, NTP, or OSHA.

**Potential Health Effects:****Epidemiology:** Not available.**Teratogenicity:** Not available.**Reproductive Effects:** Not available.**Neurotoxicity:** Not available.**Mutagenicity:** Not available.**Other Studies:** Not available.**RTECS#:** WN6500000

To the best of our knowledge the associated physical, chemical and toxicological properties of this chemical have not undergone thorough investigation, all known information is contained in this SDS.

**Section 12 - Ecological Information****12.1 Ecotoxicity:**

Not available.

**12.2 Persistence and degradability**

No information available.

**12.3 Bioaccumulative Potential**

No information available.

**12.4 Mobility in Soil**

No information available.

**12.5 Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

**12.6 Other Adverse Effects**

No information available.

**Section 13 - Disposal Considerations****13.1** Dispose of in a manner consistent with federal, state, and local regulations.**Section 14 - Transport Information**

	US DOT	IATA	IMDG	IMO	TDG
Shipping Name:	No information available.	No information available.	No information available.	No information available.	No information available.

**Section 15 - Regulatory Information****15.1 EHS Chemical Specific Regulations.****Health & Safety Reporting List:** Not Available.**Chemical Test Rules:** Not Available.**Section 12b:** Not Available.**SARA**

**Section 302:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**Section 313:** This material does not contain any chemical components with known CAS numbers that exceed the threshold (DeMinimis) reporting levels established by SARA Title III, Section 313.

**Section 311/312:** No SARA hazards.**STATE:****Pennsylvania Right To Know Components**

Sucrose CAS-No. 57-50-1

**New Jersey Right To Know Components**

Sucrose CAS-No. 57-50-1

**California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**Section 16 - Additional Information****HMIS Classification**

Health hazard: 0

Flammability: 0

Physical hazards: 0

Personal Protection: NA

**NFPA Rating**

Health hazard: 0

Fire: 1

Reactivity Hazard: 0

*The information conveyed in this Safety Data Sheet is only a representation of what BioSpectra has found to be accurate based on the current information that is available in regards to this compound. BioSpectra makes no warranty, expressed or implied, with respect to such information, and therefore assumes no liability resulting from product usage. It is strongly recommended that users of this product perform their own investigations to determine the accuracy and suitability of the information for their specific purposes. In no way will BioSpectra assume liability for any claims, losses, damages to any third party, any lost profits or any special, indirect, incidental, consequential or exemplary damages that may arise, even if BioSpectra has been advised of the possibility of such damages.*