



SECTION 1 - Chemical Product and Company Identification

1.1 Product Identifiers

Product Name : Sucrose
 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

Supplier BioSpectra, Inc.
 100 Majestic Way
 Bangor, PA 18013
 T: 610-599-3400
ra@biospectra.us

1.4 Emergency Numbers

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)

Not a dangerous substance according to GHS

2.2 GHS Label Elements Including Precautionary Statements

Pictogram : Not Applicable
 Signal Word : Warning

2.3 Hazard Statements

May form combustible dust concentrations in air.

2.4 Precautionary Statements

Not Applicable.

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 ₁₂ H ₂₂ O ₁₁
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, lifting upper and lower lids occasionally. 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 victim 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

Not Applicable.

SECTION 5 - Firefighting Measures

5.1 Extinguishing Media

In case of fire, use water spray, 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

Dust may form explosive mixture with air

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, vapors, mist or gas.

6.2 Environmental Precautions

Do not allow product to enter drains.

6.3 Methods and Materials for Containment and Cleaning Up

Remove all sources of ignition. Do not let product 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

Not Applicable.

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

Not Applicable.

SECTION 8 - Exposure Controls, Personal Protection

8.1 Control Parameters

Components with workplace control parameters

Component	CAS No.	Value	Control Parameter	Form of Exposure
Sucrose	57-50-1	ACGIH: TWA	10 mg/m ³	
Sucrose	57-50-1	NIOSH: REL	10 mg/m ³	Total
Sucrose	57-50-1	NIOSH: REL	5 mg/m ³	Respirable
Sucrose	57-50-1	OSHA: PEL	15 mg/m ³	Total Dust
Sucrose	57-50-1	OSHA: PEL	5 mg/m ³	Respirable Fraction
Sucrose	57-50-1	Z1A: TWA	15 mg/m ³	Total Dust
Sucrose	57-50-1	Z1A: TWA	5 mg/m ³	Respirable Fraction

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

Physical State	: Solid
Appearance	: Off-White crystals
Odor	: Odorless
pH	: 5.5 – 7.5 at 342 g/l at 25 °C (77 °F)
Vapor Pressure	: Not Applicable.
Vapor Density	: Not Applicable.
Viscosity	: Not Applicable.

Melting Point	: 185-187 °C (365-369 °F)
Boiling Point	: Not Applicable.
Decomposition Temperature	: Not Applicable.
Water Solubility	: 2 g/L
Specific Gravity/Density	: Not Applicable
Molecular Formula	: C ₁₂ H ₂₂ O ₁₁
Molecular Weight	: 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, spark, flames.

10.3 Incompatibilities with Other Materials

Strong oxidizing agents, inorganic peroxides

10.4 Hazardous Decomposition Products

Carbon monoxide (CO), Carbon dioxide (CO₂).

10.5 Hazardous Polymerization

Will not occur.

SECTION 11 - Toxicological Information

11.1 Toxicological Effects

LD50/LC50:

LD50	: Oral - Rat - 29,700 mg/kg
Carcinogenicity	: 57-50-1 is not listed by ACGIH, IARC, NTP, or OSHA.

Potential Health Effects:

Epidemiology	: Not Applicable
Teratogenicity	: Not Applicable
Reproductive Effects	: Not Applicable
Neurotoxicity	: Not Applicable
Mutagenicity	: Not Applicable
Other Studies	: Not Applicable

11.2 Other Information

RTECS#	: WN6500000
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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

Do not allow product to enter drains.

12.2 Persistence and Degradability

Persistence is unlikely.

12.3 Bioaccumulative Potential

Not Applicable.

12.4 Mobility in Soil

Will likely be mobile in the environment due to its water solubility.

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

Not Applicable.

SECTION 13 - Disposal Considerations

Dispose of in a manner consistent with Federal, State, and Local Regulations.

SECTION 14 - Transport Information

Regulations	US DOT	IATA	IMDG	ADR
Shipping Name	Not Dangerous Goods	Not Dangerous Goods	Not Dangerous Goods	Not Dangerous Goods
Hazard Class				
UN Number				
Packing Group				

SECTION 15 - Regulatory Information

15.1 EHS Chemical Specific Regulations

Health & Safety Reporting List : Not Applicable
Chemical Test Rules : Not Applicable
Section 12b : Not Applicable

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 SPECIFIC:

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

16.1 Hazard Ratings

HMIS Rating

Health Hazard	0
Flammability	1
Physical Hazards	0
Personal Protection	Not Applicable

NFPA Rating

Health hazard	0
Fire Hazard	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.