Material Safety Data Sheet
D(+)Sucrose

ACC# 22174

Section 1 - Chemical Product and Company Identification

**MSDS Name:** D(+)Sucrose

**Catalog Numbers:** S71203, S71204, BP220 1, BP220 10, BP220 212, BP220-1, BP220-10, BP220-212, BP2201, BP22010, BP220212, NC9486117, S3, S3-12, S3-212, S3-500, S312, S3212, S5 3, S5 500, S5-3, S5-500, S53, S5500

**Synonyms:** Beet sugar, cane sugar, maple sugar, saccharose, sugar

**Company Identification:**
- Fisher Scientific
- 1 Reagent Lane
- Fairlawn, NJ 07410

**For information, call:** 201-796-7100

**Emergency Number:** 201-796-7100

**For CHEMTREC assistance, call:** 800-424-9300

**For International CHEMTREC assistance, call:** 703-527-3887

Section 2 - Composition, Information on Ingredients

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Chemical Name</th>
<th>Percent</th>
<th>EINECS/ELINCS</th>
</tr>
</thead>
<tbody>
<tr>
<td>57-50-1</td>
<td>Sucrose</td>
<td>100</td>
<td>200-334-9</td>
</tr>
</tbody>
</table>

Section 3 - Hazards Identification

**EMERGENCY OVERVIEW**

Appearance: white. **Caution!** May cause eye and skin irritation. May cause respiratory and digestive tract irritation.

**Target Organs:** None.

**Potential Health Effects**

**Eye:** Dust may cause mechanical irritation.

**Skin:** Low hazard for usual industrial handling.

**Ingestion:** Ingestion of large amounts may cause gastrointestinal irritation.

**Inhalation:** Excessive inhalation may cause minor respiratory irritation.

**Chronic:** No information found.

Section 4 - First Aid Measures
**Section 5 - Firefighting Measures**

**General Information:** Wear appropriate protective clothing to prevent contact with skin and eyes. Wear a self-contained breathing apparatus (SCBA) to prevent contact with thermal decomposition products.

**Extinguishing Media:** For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

**Autoignition Temperature:** Not available.

**Flash Point:** Not available.

**NFPA Rating:** Not published. Explosion Limits, Lower: Not available. Upper: Not available.

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**Section 6 - Accidental Release Measures**

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** Vacuum or sweep up material and place into a suitable disposal container.

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**Section 7 - Handling and Storage**

**Handling:** Use with adequate ventilation. Minimize dust generation and accumulation.

**Storage:** Store in a cool, dry, well-ventilated area away from incompatible substances.

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**Section 8 - Exposure Controls, Personal Protection**

**Engineering Controls:** Use adequate ventilation to keep airborne concentrations low.

**Exposure Limits**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>NIOSH</th>
<th>OSHA - Final PELs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sucrose</td>
<td>10 mg/m3</td>
<td>total: 10 mg/m3 TWA;</td>
<td>total dust: 15 mg/m3 TWA;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>respirable dust: 5 mg/m3 TWA</td>
<td>TWA; respirable fraction: 5 mg/m3 TWA</td>
</tr>
</tbody>
</table>

**OSHA Vacated PELs:** Sucrose: total dust: 15 mg/m3 TWA; respirable fraction: 5 mg/m3 TWA

**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 gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to minimize contact with skin.

**Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

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### Section 9 - Physical and Chemical Properties

**Physical State:** Solid  
**Appearance:** white  
**Odor:** odorless  
**pH:** Not available.  
**Vapor Pressure:** Not available.  
**Vapor Density:** Not available.  
**Evaporation Rate:**  
**Viscosity:** Not available.  
**Boiling Point:** Not available.  
**Freezing/Melting Point:** 190.00 - 192.00 deg C  
**Decomposition Temperature:** Not available.  
**Solubility:** 1970 G/L WATER (150C)  
**Specific Gravity/Density:** Not available.  
**Molecular Formula:** C12H22O11  
**Molecular Weight:**

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### Section 10 - Stability and Reactivity

**Chemical Stability:** Stable.  
**Conditions to Avoid:** Incompatible materials, excess heat.  
**Incompatibilities with Other Materials:** Strong oxidizers.  
**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide.  
**Hazardous Polymerization:** Has not been reported.

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### Section 11 - Toxicological Information

**RTECS#:**  
**CAS# 57-50-1:** WN6500000  
**LD50/LC50:**  
**CAS# 57-50-1:**  
Oral, rat: LD50 = 29700 mg/kg;  
**Carcinogenicity:**  
**CAS# 57-50-1:**  
**ACGIH:** A4 - Not Classifiable as a Human Carcinogen  
**Epidemiology:** No data available.  
**Teratogenicity:** No data available.  
**Reproductive Effects:** No data available.  
**Neurotoxicity:** No data available.
**Section 12 - Ecological Information**

Ecotoxicity: Not available.
Environmental Fate: Not available.
Physical/Chemical: Not available.
Other: Not available.

**Section 13 - Disposal Considerations**

Dispose of in a manner consistent with federal, state, and local regulations.
*RCRA D-Series Maximum Concentration of Contaminants*: None listed.
*RCRA D-Series Chronic Toxicity Reference Levels*: None listed.
*RCRA F-Series*: None listed.
*RCRA P-Series*: None listed.
*RCRA U-Series*: None listed.

**Section 14 - Transport Information**

<table>
<thead>
<tr>
<th></th>
<th>US DOT</th>
<th>IATA</th>
<th>RID/ADR</th>
<th>IMO</th>
<th>Canada TDG</th>
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</thead>
<tbody>
<tr>
<td>Shipping Name:</td>
<td>No information available.</td>
<td>No information available.</td>
<td>No information available.</td>
<td>No information available.</td>
<td>No information available.</td>
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<tr>
<td>Hazard Class:</td>
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<tr>
<td>UN Number:</td>
<td></td>
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<tr>
<td>Packing Group:</td>
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</table>

**Section 15 - Regulatory Information**

**US FEDERAL**

*TSCA*
CAS# 57-50-1 is listed on the TSCA inventory.

*Health & Safety Reporting List*
None of the chemicals are on the Health & Safety Reporting List.

*Chemical Test Rules*
None of the chemicals in this product are under a Chemical Test Rule.

*Section 12b*
None of the chemicals are listed under TSCA Section 12b.

*TSCA Significant New Use Rule*
None of the chemicals in this material have a SNUR under TSCA.

*SARA*

*Section 302 (RQ)*
None of the chemicals in this material have an RQ.

**Section 302 (TPQ)**
None of the chemicals in this product have a TPQ.

**SARA Codes**
CAS #: 57-50-1: acute, flammable.

**Section 313**
No chemicals are reportable under Section 313.

**Clean Air Act:**
This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depletors. This material does not contain any Class 2 Ozone depletors.

**Clean Water Act:**
None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

**OSHA:**
None of the chemicals in this product are considered highly hazardous by OSHA.

**STATE**
CAS#: 57-50-1 can be found on the following state right to know lists: Pennsylvania, Minnesota, Massachusetts.

California No Significant Risk Level: None of the chemicals in this product are listed.

**European/International Regulations**

European Labeling in Accordance with EC Directives

**Hazard Symbols:**
Not available.

**Risk Phrases:**

**Safety Phrases:**

**WGK (Water Danger/Protection)**
CAS#: 57-50-1: 0

**Canada**
CAS#: 57-50-1 is listed on Canada’s DSL/NDSL List.
This product has a WHMIS classification of Not controlled..
CAS#: 57-50-1 is not listed on Canada’s Ingredient Disclosure List.

**Exposure Limits**
CAS#: 57-50-1: OEL-AUSTRALIA:TWA 10 mg/m3 OEL-BELGIUM:TWA 10 mg/m3 OEL-FRANCE:TWA 10 mg/m3 OEL-UNITED KINGDOM:TWA 10 mg/m3 OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA check ACGIH TLV OEL IN NEW ZEALAND, SINGAPORE, VIETNAM check ACGIH TLV

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**Section 16 - Additional Information**

**MSDS Creation Date:** 1/09/1995

**Revision #8 Date:** 12/12/1997

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.