1. IDENTIFICATION

Product identifier

Product code: S1695
Product Name: SUCROSE, CRYSTAL, REAGENT, ACS

Other means of identification

Synonyms:
- Beet sugar
- CANE sugar
- (alpha-D-Glucosido)-beta-D-fructofuranoside
- Saccharose (French)
- Sacarosa (Spanish)
- Sugar

CAS #: 57-50-1
RTECS #: WN6500000
Cl#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: In beverages. In Foods.
Uses advised against: No information available

Supplier:
Spectrum Chemical Mfg. Corp
14422 South San Pedro St.
Gardena, CA 90248
(310) 516-8000

Order Online At: https://www.spectrumchemical.com

Emergency telephone number
Chemtrec 1-800-424-9300

Contact Person: Martin LaBenz (West Coast)
Contact Person: Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Combustible dust

Label elements

Warning
May form combustible dust concentrations in air

Hazards not otherwise classified (HNOC)
Not Applicable

Other hazards
Not available

Precautionary Statements - Prevention
Keep away from all ignition sources including heat, sparks, and flame
Keep container closed and grounded
Prevent dust accumulations to minimize explosion hazard

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sucrose</td>
<td>57-50-1</td>
<td>100</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222.

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention if irritation develops.

Eye Contact: Flush eyes with water for 15 minutes. Get medical attention if irritation occurs. If symptoms persist, call a physician.

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. In case of shortness of breath, give oxygen. Get medical attention.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms May cause eye/skin irritation
May cause gastrointestinal disturbances
May cause hypermotility, diarrhea

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

5. FIRE-FIGHTING MEASURES

Extinguishing Media
Suitable Extinguishing Media: Carbon dioxide (CO2). Dry chemical. Water spray mist or foam.

Product code: S1695
Product name: SUCROSE, CRYSTAL, REAGENT, ACS
Unsuitable Extinguishing Media:  No information available.

**Specific hazards arising from the chemical**

Hazardous Combustion Products:  Carbon monoxide; Carbon dioxide

Hazardous Combustion Products:  No information available.

Specific hazards:  May be combustible at high temperatures. Avoid generating dust. Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

**Special Protective Actions for Firefighters**

Specific Methods:  No information available.

Special Protective Equipment for Firefighters:  As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

Personal Precautions:  Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Remove all sources of ignition. Avoid dust formation. Avoid dispersal of dust in the air. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Non-sparking tools should be used.

Environmental precautions  No information available.

Methods and material for containment and cleaning up

Methods for containment  Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

Methods for cleaning up  Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

**Precautions for safe handling**

*Technical Measures/Precautions:*  Provide sufficient air exchange and/or exhaust in work rooms. Minimize dust generation and accumulation. Avoid dust formation. Dry powders can build static electricity charges when subjected to friction of transfer and mixing operations. All equipment used when handling the product must be grounded. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Keep away from incompatible materials.

*Safe Handling Advice*  Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Do not ingest. Do not breathe vapors/dust. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.

**Conditions for safe storage, including any incompatibilities**

Product code:  S1695  Product name:  SUCROSE, CRYSTAL, REAGENT, ACS
Technical Measures/Storage Conditions:
Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

Incompatible Materials:
Oxidizing agents
Acids

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>OSHA</th>
<th>NIOSH</th>
<th>ACGIH</th>
<th>AIHA WEEL</th>
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<tbody>
<tr>
<td>Sucrose</td>
<td>57-50-1</td>
<td>15 mg/m³ TWA</td>
<td>10 mg/m³ TWA</td>
<td>10 mg/m³ TWA</td>
<td>None</td>
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Canada

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Canada - Alberta</th>
<th>Canada - British Columbia</th>
<th>Canada - Ontario</th>
<th>Canada - Quebec</th>
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<tbody>
<tr>
<td>Sucrose</td>
<td>57-50-1</td>
<td>10 mg/m³ TWA</td>
<td>10 mg/m³ TWA total dust 3 mg/m³ TWA respirable fraction</td>
<td>None</td>
<td>None</td>
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Australia and Mexico

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<th>Components</th>
<th>CAS-No.</th>
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<th>Mexico</th>
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</thead>
<tbody>
<tr>
<td>Sucrose</td>
<td>57-50-1</td>
<td>10 mg/m³ TWA</td>
<td>10 mg/m³ TWA 20 mg/m³ STEL</td>
</tr>
</tbody>
</table>

Appropriate engineering controls

Engineering measures to reduce exposure:
Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit. 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) It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in the handling of this product contain explosion relief vents or an explosion suppression system or an oxygen-deficient environment.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection: Safety glasses Safety glasses with side-shields.

Product code: S1695  Product name: SUCROSE, CRYSTAL, REAGENT, ACS
Skin and body protection: Long sleeved clothing  
Chemical resistant apron  
Gloves  
Respiratory protection: Wear respirator with dust filter.  
Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Physical state:</th>
<th>Appearance:</th>
<th>Color:</th>
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</thead>
</table>

<table>
<thead>
<tr>
<th>Odor:</th>
<th>Taste</th>
<th>Formula:</th>
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</thead>
<tbody>
<tr>
<td>No information available.</td>
<td>Sweet.</td>
<td>C12-H22-O11</td>
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<table>
<thead>
<tr>
<th>Molecular/Formula weight (g/mole):</th>
<th>Flammability:</th>
<th>Flashpoint (°C/°F):</th>
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<tbody>
<tr>
<td>342.30</td>
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<table>
<thead>
<tr>
<th>Flash Point Tested according to:</th>
<th>Autoignition Temperature (°C/°F):</th>
<th>Lower Explosion Limit (%):</th>
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<tr>
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<td>No information available</td>
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<table>
<thead>
<tr>
<th>Upper Explosion Limit (%):</th>
<th>Melting point/range(°C/°F):</th>
<th>Decomposition temperature(°C/°F):</th>
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<tbody>
<tr>
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<td>185-186 °C/365-366.8 °F</td>
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<table>
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<th>Bulk density:</th>
<th>Density (g/cm3):</th>
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<td>No information available</td>
<td>1.5805 @ 17 deg. C.</td>
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<table>
<thead>
<tr>
<th>Specific gravity:</th>
<th>pH:</th>
<th>Vapor pressure @ 20°C (kPa):</th>
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</thead>
<tbody>
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</table>

<table>
<thead>
<tr>
<th>Evaporation rate:</th>
<th>Vapor density:</th>
<th>VOC content (g/L):</th>
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</thead>
<tbody>
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<td>No information available</td>
<td>No information available</td>
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<table>
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<tr>
<th>Odor threshold (ppm):</th>
<th>Partition coefficient (n-octanol/water):</th>
<th>Viscosity:</th>
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<tr>
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<td>-3.70</td>
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</table>

<table>
<thead>
<tr>
<th>Miscibility:</th>
<th>Solubility:</th>
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</thead>
<tbody>
<tr>
<td>No information available</td>
<td>Very soluble in water</td>
</tr>
</tbody>
</table>

**Solubility in Water:** 1g dissolves in 7.2ml water; 1g dissolves in 0.3ml boiling water  
**Slightly soluble in Ethanol**  
**Insoluble in Ether**  
**Moderately soluble in glycerol**  
**Moderately soluble in pyridine**  
**Solubility in alcohol:** 1 g dissolves in 170 ml alcohol  
**Solubility in Methanol:** 1 g dissolves in 100 ml methanol

### 10. STABILITY AND REACTIVITY

**Reactivity**  
Reactive with oxidizing agents  
Reactive with acids

Product code: S1695  
Product name: SUCROSE, CRYSTAL, REAGENT, ACS
Chemical stability

Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Heat. Avoid dust formation. Dust may form explosive mixture in air. Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Incompatible materials.

Incompatible Materials: Oxidizing agents
Acids

Hazardous decomposition products: Carbon monoxide. Carbon dioxide.

Other Information
Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:
Ingestion. Inhalation.

Acute Toxicity

Component Information

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>LD50/oral/rat</th>
<th>LD50/oral/mouse</th>
<th>LD50/dermal/rabbit</th>
<th>LD50/dermal/rat</th>
<th>LC50/inhalation/rat</th>
<th>LC50/inhalation/mouse</th>
<th>Other LD50 or LC50 Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sucrose</td>
<td>57-50-1</td>
<td>29700 mg/kg</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>
<td>No information available</td>
</tr>
</tbody>
</table>

Product Information

LD50/oral/rat = VALUE- Acute Tox Oral = 29700 mg/kg

LD50/oral/mouse = VALUE - Acute Tox Oral = No information available

LD50/dermal/rabbit = VALUE-Acute Tox Dermal = No information available

LD50/dermal/rat = VALUE - Acute Tox Dermal = No information available

LC50/inhalation/rat = No information available

Product code: S1695
Product name: SUCROSE, CRYSTAL, REAGENT, ACS
**VALUE-Vapor** = No information available
**VALUE-Gas** = No information available
**VALUE-Dust/Mist** = No information available

**LC50/Inhalation/mouse**
**VALUE-Vapor** = No information available
**VALUE-Gas** = No information available
**VALUE-Dust/Mist** = No information available

**Symptoms**

**Skin Contact:** May cause skin irritation.

**Eye Contact:** May cause eye irritation.

**Inhalation**
May cause irritation of respiratory tract.

**Ingestion**
Not expected to be a health hazard. May cause gastrointestinal disturbances. May cause hypermotility, diarrhea. May cause colic. In experimental animals, extremely high doses have been shown to cause anorexia, nephrotoxicity, hepatotoxicity (mild hepatitis), myocarditis, congestive encephalitis, some adrenal hypertrophy, hypothermia, central nervous system depression, somnolence, seizures, cyanosis, and hyperglycemia. Such effects are generally seen at the gram/kilogram doses and have not been reported in exposed humans.

**Aspiration hazard**
No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Chronic Toxicity**
Prolonged or repeated skin contact has been associated with dermatitis in bakers, candy makers, and workers in related occupations.

**Sensitization:**
No information available.

**Mutagenic Effects:**
May affect genetic material
Mutations in microorganisms
Experiments with bacteria and/or yeast have shown mutagenic effects

**Carcinogenic effects:**
Not considered carcinogenic.

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>IARC</th>
<th>ACGIH - Carcinogens</th>
<th>NTP</th>
<th>OSHA HCS - Carcinogens</th>
<th>Australia - Notifiable Carcinogenic Substances</th>
<th>Australia - Prohibited Carcinogenic Substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sucrose</td>
<td>57-50-1</td>
<td>Not listed</td>
<td>A4 Not Classifiable as a Human Carcinogen</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

**ACGIH (American Conference of Governmental Industrial Hygienists)**

**IARC (International Agency for Research on Cancer)**

**NTP (National Toxicology Program)**

**OSHA (Occupational Safety and Health Administration of the US Department of Labor)**

**Reproductive toxicity**
No data is available

**Reproductive Effects:**
No information available

**Developmental Effects:**
No information on developmental toxicity effects on humans was found

**Product code:** S1695  
**Product name:** SUCROSE, CRYSTAL, REAGENT, ACS
However at extremely high oral doses of 683-1548 g/kg given to rats for 21 days during pregnancy showed some effects on newborn (growth, developmental anomalies of central nervous system and live, fetotoxicity).

Teratogenic Effects:
No information available

Specific Target Organ Toxicity

STOT - single exposure
No information available.

STOT - repeated exposure
No information available.

Target Organs:
No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: No data available.

Persistence and degradability: No information available

Bioaccumulative potential: No information available.

Mobility: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:
Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:
Empty containers should be taken for local recycling, recovery or waste disposal

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Sucrose</td>
<td>57-50-1</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

14. TRANSPORT INFORMATION

DOT

UN-No: Not Regulated

Proper Shipping Name: No information available

Hazard Class: No information available

Subsidiary Class: No information available

Packing group: No information available

Emergency Response Guide Number: No information available

Marine Pollutant: No data available

DOT RQ (lbs): No information available

Special Provisions: No Information available

Symbol(s): No information available

Description: No information available

TDG (Canada)

UN-No: Not Regulated

Product code: S1695

Product name: SUCROSE, CRYSTAL, REAGENT, ACS
Proper Shipping Name: No information available
Hazard Class: No information available
Subsidiary Risk: No information available
Packing Group: No information available
Marine Pollutant: No Information available
Description: No information available

ADR
UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Packing Group: No information available
Subsidiary Risk: No information available

IMO / IMDG
UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Packing Group: No information available
Subsidiary Risk: No information available
Marine Pollutant: No information available

RID
UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Packing Group: No information available
Subsidiary Risk: No information available

ICAO
UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Packing Group: No information available
Subsidiary Risk: No information available

IATA
UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Packing Group: No information available
Subsidiary Risk: No information available
ERG Code: No information available
Special Provisions: No information available

15. REGULATORY INFORMATION

International Inventories

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>U.S. TSCA</th>
<th>KOREA KECL</th>
<th>Philippines (PICCS)</th>
<th>Japan ENCS</th>
<th>CHINA</th>
<th>Australia (AICS)</th>
<th>EINECS-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sucrose</td>
<td>57-50-1</td>
<td>Present</td>
<td>Present KE-17258</td>
<td>Present</td>
<td>Not present</td>
<td>Present</td>
<td>Present</td>
<td>Present 200-334-9</td>
</tr>
</tbody>
</table>

U.S. Regulations

Sucrose
Massachusetts RTK: Present

Product code: S1695
Product name: SUCROSE, CRYSTAL, REAGENT, ACS
Pennsylvania RTK: Present
Minnesota - Hazardous Substance List: Present
FDA - Food Additives Generally Recognized as Safe (GRAS): 21 CFR 184.1854
FDA - Direct Food Additives: 21 CFR 172.869 (free)
FDA - 21 CFR - Total Food Additives:
100.130, 101.4, 101.80, 101.9, 131.112, 131.170, 131.200, 131.203, 131.206, 133.124,
133.178, 133.179, 145.134, 145.180, 145.3, 146.140, 146.141, 146.145, 146.146, 146.3,
150.160, 155.170, 155.200, 169.175, 169.179, 172.810, 172.816, 172.859, 172.861,
172.880, 172.884, 173.145, 184.1854, 73.85 (includes liquid)


Chemicals Known to the State of California to Cause Cancer:
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Carcinogen</th>
<th>Developmental Toxicity</th>
<th>Male Reproductive Toxicity</th>
<th>Female Reproductive Toxicity</th>
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<tr>
<td>Sucrose</td>
<td>57-50-1</td>
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<td>Not Listed</td>
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</table>

CERCLA/SARA

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>CERCLA - Hazardous Substances and their Reportable Quantities</th>
<th>Section 302 Extremely Hazardous Substances and TPQs</th>
<th>Section 302 Extremely Hazardous Substances and RQs</th>
<th>Section 313 - Chemical Category</th>
<th>Section 313 - Reporting de minimis</th>
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<tbody>
<tr>
<td>Sucrose</td>
<td>57-50-1</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
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</table>

U.S. TSCA

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)</th>
<th>TSCA 8(d) - Health and Safety Reporting</th>
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<tbody>
<tr>
<td>Sucrose</td>
<td>57-50-1</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
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</tbody>
</table>

Canada

WHIMIS 2015 - GHS Classifications

WHIMIS 2015 Hazard Classification Information:
Component
Sucrose
57-50-1 (100)

<table>
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<tr>
<th>Component</th>
<th>WHIMIS 2015 Hazard Classification</th>
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</thead>
<tbody>
<tr>
<td>Sucrose</td>
<td>Combustible Dust - Category 1: May form combustible dust concentrations in air (factors such as combustibility and explosiveness of dusts including composition and shape and size of particles could cause substance to belong to 'Combustible dust' hazard class)</td>
</tr>
</tbody>
</table>

Canada Hazardous Products Regulation: This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

WHIMIS 1988 Hazard Class
Non-controlled

<table>
<thead>
<tr>
<th>Components</th>
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<tbody>
<tr>
<td>Sucrose</td>
<td>Uncontrolled product according to WHIMIS classification criteria</td>
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Canada Controlled Products Regulation: This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS

Product code: S1695
Product name: SUCROSE, CRYSTAL, REAGENT, ACS
contains all of the information required by the CPR.

### Inventory

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
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### Components

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<th>CAS-No.</th>
<th>CEPA Schedule I - Toxic Substances</th>
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<tr>
<th>Components</th>
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<th>CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting</th>
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### EU Classification

**EU GHS - SV - CLP 1272/2008**

<table>
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</table>

**EU - CLP (1272/2008)**

**R-phrase(s)**
not determined (not applicable)

**S-phrase(s)**
none

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<th>Components</th>
<th>CAS-No.</th>
<th>Classification</th>
<th>Concentration Limits:</th>
<th>Safety Phrases</th>
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<td>57-50-1</td>
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The product is classified in accordance with Annex VI to Directive 67/548/EEC

### Indication of danger:
Not dangerous

### 16. OTHER INFORMATION

**Preparation Date:** 8/12/2014  
**Revision Date:** 8/23/2018  
**Prepared by:** Sonia Owen

**Disclaimer:**

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the
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End of Safety Data Sheet