

MATERIAL SAFETY DATA SHEET

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 Revision Date: December 16, 2011
 Approved by: Darius Nicpon

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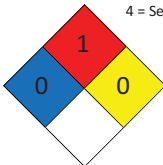
| Section 1 Chemical Product and Company Name | | |
|---|--|--------------------|
| Product | SUCROSE | ITEM No: CASE-B005 |
| Synonyms | Sucrose, Cane sugar, Granulated sugar, Beet sugar. | |
| CHEMTREC | 24 Hour Emergency Phone Number (800) 424-9300 | |

| Section 2 Composition/Ingredients Information | | | |
|---|---------|------|--|
| Chemical Name | CAS# | % | TLV Units |
| Sucrose | 57-50-1 | 100% | TWA: 10mg/m ³ (respirable dust) |

| Section 3 Hazards Identification | | | | | | | | | |
|--|---|--------|---|--------------|---|-----------------|---|---------------------|---|
| <p>CAUTION! HIGH CONCENTRATION OF DUST MAY CAUSE RESPIRATORY IRRITATION. MAY CAUSE EYE IRRITATION.</p> | <p>0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe</p> <table border="1"> <tr><td>Health</td><td>1</td></tr> <tr><td>Flammability</td><td>1</td></tr> <tr><td>Physical Hazard</td><td>0</td></tr> <tr><td>Personal Protection</td><td>C</td></tr> </table> | Health | 1 | Flammability | 1 | Physical Hazard | 0 | Personal Protection | C |
| Health | 1 | | | | | | | | |
| Flammability | 1 | | | | | | | | |
| Physical Hazard | 0 | | | | | | | | |
| Personal Protection | C | | | | | | | | |

HMIS

| Section 4 First Aid Measures |
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| <p>INGESTION: Never give anything by mouth to unconscious person. Rinse mouth and get conscious person drink a glass of milk or water. Get medical advise.</p> <p>INHALATION: Remove to fresh air. Get medical attention if necessary.</p> <p>EYE CONTACT: Wash immediately with plenty of water, and continue washing for at least 15min., occasionally lifting upper and lower eyelids. Seek medical attention if irritation develops.</p> <p>SKIN CONTACT: Remove contaminated clothing. Flush thoroughly with mild soap and water.</p> |

| Section 5 Fire Fighting Measures | |
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| <p>May be combustible at high temperatures. High concentration of dust in air in the presence of ignition source is a potential dust explosion hazard. Product of combustion are carbon oxides.</p> <p>Extinguishing Media: Use any media suitable for extinguishing supporting fire.</p> <p>Flash point: 93.3°C</p> <p>Autoignition temperature: N/A</p> <p>Explosion limits: Lower: N/A Upper: N/A</p> | <p>0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe</p>  |

| Section 6 Accidental Release Measures |
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| <p>Recover for use if not contaminated. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.</p> |

| Section 7 Handling and Storage |
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| <p>Read label on container before using. Do not wear contact lenses when working with chemicals. Keep container tightly closed. For laboratory use only. Not for drug, food or household use. Use only under adult supervision.</p> <p>Handling: Use with adequate ventilation. Do not inhale dust. Wash hands thoroughly after handling.</p> <p>Storage: Store in closed container in a dry area. Keep away from flames and excessive heat.</p> |

| Section 8 Exposure Controls/ Personal Protection |
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| <p>Engineering controls: Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limits outlined in section 3. Wear chemical splash goggles, chemical-resistant gloves, and chemical resistant apron.</p> <p>Respiratory protection: Non should be needed if normal laboratory handling at room temperature. Use NIOSH approved respiratory protection under dusty conditions.</p> |

| Section 9 Physical and Chemical Properties | |
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| <p>Physical state: Solid Appearance: Off white powder, crystals, granular. Odor: No odor pH: Not available Vapor Pressure (mm Hg): Not available Vapor Density: Not available Evaporation Rate: Not available Viscosity: Not available</p> | <p>Boiling point: Not available Melting point: 186°C/366.8°F Freezing point: N/A Decomposition temp: Not available Solubility: Soluble in water Specific gravity (H₂O = 1): 1.587g/cm³ Percent volatile (%): Not available Molecular formula: C₁₂H₂₂O₁₁ Molecular weight: 342.3g/mol</p> |

| Section 10 Stability and Reactivity |
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| <p>Chemical Stability: Stable Conditions to Avoid: Heat and incompatible materials Incompatibilities: Oxidizing agents, acids. Hazardous decomposition: Not available. Hazardous polymerization: Will not occur.</p> |

| Section 11 Toxicological Information |
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| <p>Effects of overexposure: Dust, crystals, granules may cause mechanical irritation to eyes. Excessive inhalation may cause minor respiratory irritation. Prolonged or repeated ingestion of large amounts may cause hypermotility and diarrhea. It is not expected to produce any significant toxicity in workplace exposure. Mutagenic to yeast and bacteria.</p> <p>ORL-RAT LD₅₀: 29700mg/kg[Rat] IHL-RAT LD₅₀: not available SKN-RABIT LD₅₀: not available</p> |

| Section 12 Ecological Information |
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| Not available |

| Section 13 Disposal Considerations |
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| Disposal of in accordance with all local, state, and federal regulations, or contact with a licensed chemical disposal agency. |

| Section 14 Transport Information |
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| <p>UN number: N/A Shipping name: not regulated Hazard Class: N/A Packing group: N/A Exceptions: N/A</p> |

| Section 15 Regulatory Information |
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| TSCA-listed, EINECS-listed (200-334-9) |

| Section 16 Other Information |
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