

Material Safety Data Sheet

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**Sucrose – EXSU 500-03**

**Section 1 – Chemical Product and Company Identification**

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USA  
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**Product Name:** Sucrose  
**MSDS Number:** Trade Secret  
**Synonyms:** beta-D-Fructofuranosyl-alpha-D-glucopyranoside  
**Chemical Formula:** C<sub>12</sub>H<sub>22</sub>O<sub>11</sub>  
**Molecular Weight:** 342.30 g/mole

**Section 2 – Composition, Information on Ingredients**

Sucrose, CAS# 57-50-1, 100% by weight.

**Section 3 – Hazards Identification**

**EMERGENCY OVERVIEW**

**Appearance:** White solid.

Caution! May cause eye and skin irritation. Powder may cause respiratory and digestive tract irritation. The toxicological properties of this material have not been fully investigated.

**Target Organs:** None known.

Potential Health Effects

**Eye:** May cause eye irritation.

**Skin:** May cause skin irritation. Low hazard for usual industrial handling.

**Ingestion:** May cause irritation to the digestive tract. Low hazard for usual industrial handling.

**Inhalation:** Low hazard for usual industrial handling. Inhalation of dust may cause respiratory tract irritation.

**Chronic:** Adverse reproductive effects have been reported in animals. Laboratory experiments have resulted in mutagenic effects.

**Section 4 – First Aid Measures**

**Eyes:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

**Skin:** Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Get medical aid.

**Ingestion:** Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

**Inhalation:** Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

**Notes to Physician:** Treat symptomatically and supportively.

### Section 5 – Fire Fighting Measures

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

**NFPA Rating:** (estimated) Health: 1; Flammability: 1; Instability: 0

**Extinguishing Media:** Use agent most appropriate to extinguish fire. Use water spray, dry chemical, carbon dioxide, or appropriate foam.

**Flash Point:** Not applicable.

**Autoignition Temperature:** Not available.

**Explosion Limits, Lower:** Not available.

**Upper:** Not available.

### 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. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

### Section 7 – Handling and Storage

**Handling:** Wash thoroughly after handling. Use with adequate ventilation. Keep container tightly closed. Avoid ingestion and inhalation.

**Storage:** Store in a tightly closed container. Store the reagent in a cool, dry, well-ventilated area away from incompatible substances. Store protected from moisture.

### Section 8 – Exposure Controls, Personal Protection

**Engineering Controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

#### Exposure Limits

TWA: 15 (mg/m<sup>3</sup>) from OSHA (PEL) (United States) Inhalation total. TWA: 10 (mg/m<sup>3</sup>) from ACGIH (TLV) (United States). TWA: 10 (mg/m<sup>3</sup>) from NIOSH Inhalation Total. TWA: 5 (mg/m<sup>3</sup>) from NIOSH Inhalation Respirable. TWA: 5 (mg/m<sup>3</sup>) from OSHA (PEL) (United States) Inhalation Respirable. Consult local authorities for acceptable exposure limits.

**OSHA Vacated PELs:** Sucrose: 15 mg/m<sup>3</sup> TWA (total dust); 5 mg/m<sup>3</sup> TWA (respirable fraction)

**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 prevent skin exposure.

**Respirators:** 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 respirator use.

### Section 9 – Physical and Chemical Properties

**Physical State:** Crystalline Solid

**Appearance:** White.

**Odor:** Odorless

**pH:** Not available

**Vapor Pressure:** Not available.

**Vapor Density:** Not available.

**Evaporation Rate:** Negligible.

**Viscosity:** Not available.

**Boiling Point:** Not available.

**Freezing/Melting Point:** 186°C

**Decomposition Temperature:** Not available

**Solubility:** 2000 g/L at 25°C in water.

**Specific Gravity/Density:** 1.587 g/cm<sup>3</sup>

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

**Molecular Weight:** 342.30 g/mole

**Section 10 – Stability and Reactivity**

**Chemical Stability:** Stable at room temperature in closed containers under normal storage and handling conditions.

**Conditions to Avoid:** Incompatible materials, dust generation, excess heat.

**Incompatibilities with Other Materials:** Strong oxidizing agents.

**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide.

**Hazardous Polymerization:** Will not occur

**Section 11 – Toxicological Information**

**RTECS#:** WN6500000

**CAS#:** 57-50-1:

**LD50/LC50:** Acute oral toxicity, rat: LD50 = 29,700 mg/kg

**Carcinogenicity:** Not listed by ACGIH, IARC, NTP, or CA Prop 65.

**Epidemiology:** No information found

**Teratogenicity:** Teratogenic effects have occurred in experimental animals.

**Reproductive Effects:** No information found

**Mutagenicity:** Mutagenic effects have occurred in experimental animals.

**Neurotoxicity:** No information found

**Section 12 – Ecological Information**

No information available.

**Section 13 – Disposal Considerations**

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

**RCRA P-Series:** None listed.

**RCRA U-Series:** None listed.

**Section 14 – Transportation Information**

US DOT

Canada TDG

**Shipping Name:** Not regulated as a hazardous material No information available.

**Hazard Class:** Not applicable.

**UN Number:** Not applicable.

**Packing Group:** Not applicable.

**Section 15 – Regulatory Information**

US FEDERAL

TSCA

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.

CERCLA Hazardous Substances and corresponding RQs

None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

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 depleters.

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 Can be found on the following state right to know lists: Pennsylvania, Minnesota, Massachusetts.

California Prop 65

**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:** Not available.

**Safety Phrases:**

S 37 Wear suitable gloves.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S 28A After contact with skin, wash immediately with plenty of water

WGK (Water Danger/Protection)

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Canada - DSL/NDSL

Listed on Canada's DSL List.

Canada - WHMIS

This product has a WHMIS classification of Not controlled.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Canadian Ingredient Disclosure List

**Section 16 – Additional Information**

**MSDS Creation Date:** 1/02/2006

**Revision #2 Date:** 8/10/2011

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