NATURAL SOURCING™
Specialists in Cosmeceutical Ingredients

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MATERIAL SAFETY DATA SHEET

TURBINADO SUGAR

MSDS

1. PRODUCT NAME AND COMPANY IDENTIFICATION

Product Name:	**TURBINADO SUGAR (Light, Medium, Dark)** **Evaporated Cane Juice**
Trade Name/Synonyms:	Food Grade Raw Cane Sugar Turbinado, Milled Cane Evaporated Cane Juice
Product Use:	Personal Care Formulations
Company Name:	Natural Sourcing
Company Address:	341 Christian Street, Oxford, CT 06478, USA
Date Issued:	05/07/2009
Emergency Telephone Number:	**Chemtrec Tel: (800) 262-8200**

2. COMPOSITION/INGREDIENT INFORMATION

Ingredients:	
Sucrose, Granulated	98-99%
Sucrose Syrups	< 2%
Molecular Weight:	342 (sucrose)
Chemical Family:	Carbohydrate
CAS NO:	0057-50-1
Hazardous Components:	None
Exposure Limits:	PEL= 15 mg/m^3 (Total Dust) or 5 mg/m^3 (Respirable Dust) LD_{50}= 29.7 g/kg, rat; = 14.0 g/kg [Mouse]

3. HAZARDS IDENTIFICATION

Evaporated Cane Sugar is relatively non-toxic.

Routes of Entry	
Eye Contact:	Non hazardous
Skin Contact:	Non hazardous
Ingestion:	Non hazardous
Inhalation:	Irritation and coughing
Effects of Overexposure:	Prolonged exposure to nuisance dust could result in temporary, reversible respiratory irritation. Prolonged contact may cause skin sensitization. No other effects reported in humans.

4. FIRST AID MEASURES

Eyes:	Flush with plenty of water for 15 minutes. Get medical attention if irritation persists.
Skin:	Wash with soap and water.
Ingestion:	If swallowed in large amounts and the person is conscious, immediately give large amounts water. Get medical attention.

Inhalation:	Remove to fresh air.
Medical Conditions Generally Aggravated by Exposure:	None

5. FIRE FIGHTING MEASURES

Extinguishing Media:	Water
Special Firefighting Procedures:	Remove container(s) from area if possible. Use extinguishing media appropriate for surrounding fire and materials.
Unusual Fire & Explosion Hazards:	Fire: Poorly supports combustion at elevated temperatures Explosion: At concentrations of 0.045 gm/L (45 gms/m3) or higher, airborne sugar dust accumulations are explosive. Airborne sugar dust accumulation ignition temperature is 370°C. (NFPA Class 3)
Hazard Thermal Decomposition Products:	N/A

6. ACCIDENTAL RELEASE MEASURES (STEPS FOR SPILLS)

Methods for Cleaning Up:	No special precautions indicated. Sweep up and dispose of spilled material using "Current Good Manufacturing Practices" as permitted by federal, state and local regulations or return to facility capable of total reprocessing. **Note:** The use of water for cleaning should be limited to the final residue since it tends to make a sticky mess which clogs drains.

7. HANDLING AND STORAGE

Handling

Safe Handling:	Wear paper breathing mask and protective eyewear when dumping or mixing.

Storage

Requirements for Storage Areas and Containers:	Store in cool, dry, ventilated storage area. Avoid severe temperature changes which cause the material to "set up".

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Eye:	Safety glasses should be worn.
Skin/Body:	Gloves & Aprons should be worn.
Respiratory:	Use adequate ventilation or NIOSH-approved respiratory devices if needed.
Other:	Evaluate need based on application.
Work/Hygiene Practice:	Good manufacturing practices

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Loose solid/syrup mass
Color:	Light to dark brown
Odor:	Characteristic
Melting Point:	Decomposes ~ 180° C
Specific Gravity:	~ 1.5 (firm pack)
Bulk Density:	45-56 Lbs./Cu. Ft

Solubility in Water:	~ 200 gm/100 gm @ 20°C
Moisture by Weight:	0.10%
Water Reactive:	No

10. STABILITY AND REACTIVITY

Stability:	Stable under normal temperatures and pressures
Incompatibility (Materials to Avoid):	CO and CO2 may form when heated to decomposition, or heated with strong, concentrated alkalis, acids, or strong oxidizing agents. This reaction is exothermic.
Hazardous Decomposition or Byproducts:	Thermal decomposition, at temperatures in excess of 367°F, may release acrid fumes and smoke.
Conditions to Avoid:	None
Hazardous Polymerization:	Will Not Occur

11. TOXICOLOGICAL INFORMATION

Exposure Limits:	PEL= 15 mg/m^3 (Total Dust) or 5 mg/m^3 (Respirable Dust) LD_{50}= 29.7 g/kg, rat; = 14.0 g/kg [Mouse]

12. ECOLOGICAL INFORMATION

No Information

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods:	Material is not considered hazardous under federal regulations. Dispose in accordance with state and local regulations.

14. TRANSPORT INFORMATION

No Information

15. REGULATORY INFORMATION

No Information

16. ADDITIONAL INFORMATION

This information is provided for documentation purposes only.
This product is not considered hazardous.

The complete range of conditions or methods of use are beyond our control therefore we do not assume any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate however, all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user.

This safety sheet cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers.