SAFETY DATA SHEET: SUCROSE

1. IDENTIFICATION

Product Name: SUCROSE
Synonyms: Sugar; Cane sugar
Formula and Formula Weight: C12H22O11 342.30
Integra numbers beginning with: S852.10
Recommended Use: Commercial/industrial use
Restrictions on Use: No information available

INTEGRA Chemical Company
24 Hour Emergency Response: CHEMTREC 800-424-9300 (Outside USA 703-527-3887)
1216 6th Ave N
Kent WA 98032
Phone: 253-479-7000

2. HAZARDS IDENTIFICATION

OSHA Classification: None identified
Hazard Category: Not applicable
Hazard Statement: Not applicable
Hazards Not Otherwise Classified: No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>Synonyms</th>
<th>CAS #</th>
<th>% Weight</th>
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<tbody>
<tr>
<td>Sucrose</td>
<td>Sugar; Cane sugar</td>
<td>00057-50-1</td>
<td>100</td>
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</tbody>
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4. FIRST AID MEASURES

Inhalation: Remove person to fresh air.
Eye Contact: Flush eyes with plenty of water. If irritation persists, seek medical attention.
Skin Contact: Wash with soap and water.
Ingestion: Do not induce vomiting. Rinse mouth. If adverse symptoms develop, seek medical attention.
Additional notes: Symptoms and effects include eye, respiratory irritation from dusts.

5. FIRE-FIGHTING MEASURES

Extinguishing Media: Material is not flammable. Use extinguishing media suitable to surrounding materials.
Special Equipment and Precautions: Use water to cool nearby containers and structures. Wear full protective equipment, including suitable respiratory protection.
Specific Hazards: None identified
Hazardous combustion products: Oxides of carbon.

6. ACCIDENTAL RELEASE MEASURES

Spill Procedures: Prevent spread of spill. Sweep or scoop into suitable disposal container.

7. HANDLING AND STORAGE

Incompatible Materials: Incompatible with strong oxidizers. Inorganic peroxides, sulfuric acid.
Storage and Handling: Store in a cool, dry, well-ventilated area away from incompatible materials. Keep containers tightly closed and protect them from physical damage.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

OSHA & ACGIH Exposure Limits:

<table>
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<td>None identified</td>
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Engineering Controls: Use adequate general or local exhaust ventilation to keep fume and/or dust levels as low as possible.
Respiratory Protection: If use generates annoying or irritating dusts, mists or vapors, use a NIOSH approved respirator with a particulate filter.
Skin/Eye Protective Equipment: Safety glasses.
Facilities storing or utilizing this material should have readily accessible eyewash stations and safety showers. Select respirators and other safety equipment in accordance with regulations and based upon the particular conditions of use and risk of exposure. Always use safe chemical-handling and good industrial hygiene practices.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White crystals or powder
Odor: Characteristic caramel to odorless
Odor Threshold: Not available
pH: 5.5 - 7.5
Melting/Freezing Point: 185 °C
Initial Boiling Point and Boiling Range: Not available
Flash Point: Not available
Evaporation Rate: Not available
10. STABILITY AND REACTIVITY

Reactivity: No information available
Stability: Stable
Possibility of Hazardous Reactions: Hazardous polymerization will not occur
Conditions to Avoid: None identified
Incompatibles: Incompatible with strong oxidizers. Inorganic peroxides, sulfuric acid.
Decomposition Products: Oxides of carbon.

11. TOXICOLOGICAL INFORMATION

Effects of Over Exposure:
Inhalation: As with most nuisance dusts, inhalation of large quantities, or prolonged inhalation, may irritate the respiratory system.
Skin Contact: None identified
Eye Contact: Dusts may cause some eye irritation.
Ingestion: None identified
Additional Effects: None identified
Chronic Effects: None identified
Target Organs: None identified
Reproductive Effects: None identified
Carcinogenicity: None identified

Toxicity Data:
Sucrose
LD50 (oral, rat) 29700 mg/kg

12. ECOLOGICAL INFORMATION

Sucrose
Aquatic Toxicity Data: No information available
Terrestrial Toxicity Data: No information available
Persistence and degradability: Expected to readily biodegrade
Bioaccumulative potential: No information available
Mobility in soil: No information available
Other adverse effects: No information available

13. DISPOSAL CONSIDERATIONS

Disposal Procedures: Dispose of material and containers in accordance with all local, state and federal regulations.

14. TRANSPORTATION INFORMATION

This product is not a regulated material for domestic ground transporation.

Environmental hazards: No information available
Special precautions: No information available
Bulk transport: No information available

15. REGULATORY INFORMATION

Sucrose is listed in the TSCA inventory.

16. OTHER INFORMATION

OSHA SDS #: 26519 rev 101 3/27/2015

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***** END OF SDS *****