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**MSDS** Material Safety Data Sheet

Contact : 091-02667-262308, 290210  
Fax : 091-02667-262308  
E-mail : halogens2003@yahoo.co.in

From: **HALOGENS**  
Block No. 511, Nr. Lasundra Stand,  
Savli Road, Vill : TUNDAV - 391775  
Ta : Savli, Dist : Baroda.  
Gujarat (INDIA)



An ISO 9001-2000 Certified Company  
Manufacturing Of Fine Chemicals

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# SUCROSE

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## 1. Product Identification

**Synonyms:** Beet sugar; cane sugar; saccharose; table sugar.

**CAS No.:** 57-30-1

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

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## 2. Composition/Information on Ingredients

CAS#	Chemical Name	percent	EINECS/ELINCS
57-30-1	Sucrose	100	200-334-9

**Hazard Symbols:** None listed.

**Risk Phrases:** None listed

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## 3. Hazards Identification

**Appearance:** white. **Caution!** May cause eye and skin irritation. This is expected to be a low hazard for usual industrial handling. May cause respiratory tract irritation.

**Target Organs:** Lungs

## Potential Health Effects

**Eye:** Dust may cause mechanical irritation.

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

**Ingestion:** Not available. Hydrolysis of sucrose yields invert sugar composed of equal parts fructose and glucose. Sugar is an important source of metabolic energy in foods and its formation in plants is an essential factor in the life process.

**Inhalation:** Excessive inhalation may cause minor respiratory irritation.

**Chronic:** Chronic inhalation of fine dusts may cause lung damage.

## 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:** Get medical aid if irritation develops or persists. Flush skin with plenty of soap and water.

**Ingestion:** Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water.

Get medical aid if irritation or symptoms occur.

**Inhalation:** Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If

breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

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

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## 5. Fire Fighting Measures

**General Information:** Wear appropriate protective clothing to prevent contact with skin and eyes. Wear

a self-contained breathing apparatus (SCBA) to prevent contact with thermal decomposition products. This

material in sufficient quantity and reduced particle size is capable of creating a dust explosion.

**Extinguishing Media:** Use extinguishing media most appropriate for the surrounding fire.

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## 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.

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## 7. Handling and Storage

**Handling:** Use with adequate ventilation. Minimize dust generation and accumulation.

**Storage:** Store in a cool, dry, well-ventilated area away from incompatible substances..

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## 8. Exposure Controls/Personal Protection

**Engineering Controls:** Use adequate ventilation to keep airborne concentrations low.

### Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Sucrose	10 mg/m <sup>3</sup> TWA	total: 10 mg/m <sup>3</sup> TWA; respirable dust: 5 mg/m <sup>3</sup> TWA	15 mg/m <sup>3</sup> TWA (total dust); 5 mg/m <sup>3</sup> TWA (respirable fraction)

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

### Personal Protective Equipment

**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 minimize contact with skin.

**Respirators:** Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN

149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

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## 9. Physical and Chemical Properties

**Physical State:** Solid

**Appearance:** white

**Odor:** odorless

**pH:** Not available.

**Vapor Pressure:** Not available.

**Vapor Density:** Not available.

**Evaporation Rate:**Not available.

**Viscosity:** Not available.

**Boiling Point:** Not available.

**Freezing/Melting Point:**190-192 deg C (dec)

**Autoignition Temperature:** Not applicable.

**Flash Point:** Not applicable.

**Decomposition Temperature:**190-192 deg C

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

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

**Upper:** Not available.

**Solubility:** 1970 G/L WATER (15°C)

**Specific Gravity/Density:**Not available.

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

**Molecular Weight:**342.29

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## 10. Stability and Reactivity

**Chemical Stability:** Stable.

**Conditions to Avoid:** Dust generation, excess heat.

**Incompatibilities with Other Materials:** Strong oxidizers.

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

**Hazardous Polymerization:** Has not been reported.

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## 11. Toxicological Information

**RTECS#:**

**CAS# 57-50-1:** WN6500000

**LD50/LC50:**

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

Oral, rat: LD50 = 29700 mg/kg;<br.

**Carcinogenicity:**

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

**ACGIH:** A4 - Not Classifiable as a Human Carcinogen

**Epidemiology:** No information available.

**Teratogenicity:** No information available.

**Reproductive Effects:** No information available.

**Neurotoxicity:** No information available.

**Mutagenicity:** No information available.

**Other Studies:** See actual entry in RTECS for complete information.</br>

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## 12. Ecological Information

**Ecotoxicity:** No data available. No information available.

**Environmental:** Dissolves completely in water.

**Physical:** No information available.

**Other:** No information available.

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## 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.

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## 14. Transport Information

Not regulated.

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## 15. Regulatory Information

### US FEDERAL

#### TSCA

CAS# 57-50-1 is 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.

**SARA Section 302 (RQ)**

None of the chemicals in this material have an RQ.

**Section 302 (TPQ)**

None of the chemicals in this product have a TPQ.

**SARA Codes**

CAS # 57-50-1: acute, flammable.

**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 depleters.

**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**

CAS# 57-50-1 can be found on the following state right to know lists: Pennsylvania, Minnesota, Massachusetts.

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:**

**Safety Phrases:**

**WGK (Water Danger/Protection)**

CAS# 57-50-1: 0

**Canada**

CAS# 57-50-1 is listed on Canada's DSL List. CAS# 57-50-1 is listed on Canada's DSL List.

This product has a WHMIS classification of Not controlled..

CAS# 57-50-1 is not listed on Canada's Ingredient Disclosure List.

**Exposure Limits**

CAS# 57-50-1: OEL-AUSTRALIA:TWA 10 mg/m3 OEL-BELGIUM:TWA 10 mg/m3  
OEL-FRANCE:TWA 10 mg/m3 OEL-UNITED KINGDOM:TWA 10 mg/m3 OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA check ACGIH TLV OEL IN NEW ZEALAND, SINGAPORE, VIETNAM check ACGI TLV

## 16. Other Information

**Disclaimer:**

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**HALOGENS provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose**

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