Briti Scientific®
An ISO 9001:2015 and ISO/IEC 17025:2017 Certified Company.

MATERIAL SAFETY DATA SHEET

www.britiscientific.com **Issue Date:**

1- Chemical Product Information and Company Identification.

Product Name: Sucrose reference standard traceable to NIST, AnStan®.
Synonym: D-(+)-Saccharose.
Product code: BS12531.
CAS Number: 57-50-1.
Company Name: Briti Scientific.
Company Address: Plot No: 78/B/13, SY-79, Phase-VI, Jeedimetla,Hyderabad- 500 055. Telangana, India.

Section 2- Composition / Information on Ingredients.

CAS No.	Chemical Name	Mol. Formula
57-50-1.	D-(+)-Saccharose.	$C_{12}H_{22}O_{11}$.

Section 3- Hazards Identification.

Potential Health Effects
Eye: Dust may cause mechanical irritation**.**
Skin: Low hazard for usual industrial handling.
Ingestion: Ingestion of large amounts may cause gastrointestinal irritation. Expected to be a low ingestion hazard.
Inhalation: Low hazard for usual industrial handling. Excessive inhalation may cause minor respiratory irritation.
Chronic: No information found**.**

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: Get medical aid if irritation develops or persists.
Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid if irritation or symptoms occur.

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 if cough or other symptoms appear.
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.
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 applicable.
Explosion Limits, Lower:Not available.
Upper: Not available.
NFPA Rating: (estimated) Health: 0; Flammability: 0; Instability: 0

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. Avoid generating dusty conditions..

Section 7- Handling and Storage.

Handling: Use with adequate ventilation. Minimize dust generation and accumulation.
Storage: Keep container closed when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8- Exposure Control/Personal Protection.

Engineering Controls: Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.
OSHA Vacated PELs: Sucrose: 15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)
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 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9- Physical and Chemical Properties.

Appearance: White powder to crystal.
Odor: Odorless.
pH: Neutral in solution.
Vapor Pressure: Not available.
Vapor Density: Not available.
Evaporation Rate: Not available.
Viscosity: Not available.
Boiling Point: Not available.
Freezing/Melting Point: 365^0F
Decomposition Temperature: 365^0F
Solubility: Soluble in water
Molecular Formula: $C_{12}H_{22}O_{11}$
Molecular Weight: 342.30 g/mol.

Section 10- Stability and Reactivity.

Chemical Stability: Stable.
Conditions to Avoid: Incompatible materials, excess heat.
Incompatibilities with Other Materials: Strong oxidizers.
Hazardous Decomposition Products: Carbon monoxide, carbon dioxide.
Hazardous Polymerization: Will not occur.

Section 11- Toxicological Information.

RTECS#:
CAS# 57-50-1: WN6500000
LD50/LC50:
CAS# 57-50-1:
Oral, rat: LD50 = 29700 mg/kg;

Carcinogenicity:
CAS# 57-50-1: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: No data available.
Teratogenicity: No data available.
Reproductive Effects: No data available.
Mutagenicity: No data available.
Neurotoxicity: No data available.

Section 12- Ecological Information.

Ecotoxicity: Not 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- Transport Information.

IATA IMO RID/ADR
Shipping Name: Not regulated Not regulated Not regulated
as a hazardous as a hazardous as a hazardous
material material material
Hazard Class:
UN Number:
Packing Group:

Section 15- Regulatory Information.

European/International Regulations
European Labeling in Accordance with EC Directives
Hazard Symbols:Not available

Risk Phrases:
Safety Phrases:
S 24/25 Avoid contact with skin and eyes.
WGK (Water Danger/Protection)
CAS# 57-50-1: 0
Canada
CAS# 57-50-1 is listed on Canada's DSL List
US Federal
TSCA
CAS# 57-50-1 is listed on the TSCA Inventory.

Section 16- Other Information.

Briti Scientific 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.