



MATERIAL SAFETY DATA SHEET

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

- **Product name:** **SUCROSE**
- **Manufacturer:** Deep South Chemical, Inc.
229 Millstone Road
Broussard, LA 70518 (337) 837-9931
- **For Emergency : Call CHEMTREC 1-800-424-9300**
Outside the U.S.A. (703)-527-3887
- **Chemical Family:** Sugar
- **Contact Person:** Glenn Ray
- **Formula:** C₁₂H₂₂O₁₁
- **MSDS Revised:** January 1, 2014

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components	CAS Number	%	PEL(OSHA)		TLV(ACGIH)		IDLH
			TWA	STEL	TWA	STEL	
Sucrose	57-50-1	100	15mg/m ³ (total dust) 5mg/m ³ (respirable)		10mg/m ³ N/E		N/E

SECTION 3. HAZARDS IDENTIFICATION, INCLUDING EMERGENCY OVERVIEW

Effects of overexposure

Inhalation: This product may cause irritation to nose, throat, and respiratory tract

Skin Contact: In high concentrations, this product may cause irritation to the skin.

Eye Contact: High concentrations may cause irritation to eyes.

Ingestion: Sucrose is practically nontoxic by ingestion; the probable lethal dose (human) is above 15 g/kg.

SECTION 4. FIRST AID MEASURES

Eyes: Do not allow victim to rub his eyes or keep them tightly shut. Move victim away from exposure and into fresh air. If irritation persists, seek medical attention. For direct exposure, flush with clean water for 15 minutes. Hold eyelids apart to ensure flushing of the entire eye surface.

Inhalation: Move victim away from source of exposure and into fresh air. If irritation persists, seek medical attention. If victim is not breathing, artificial respiration should be administered.

Skin: Remove heavily contaminated clothes. Cleanse affected area thoroughly with soap and water. If irritation persists, seek medical attention. Wash contaminated clothing.

Ingestion: If victim is conscious, have him drink 1 or 2 glasses of water and then induce vomiting. Seek medical attention.

SECTION 5. FIRE FIGHTING MEASURES

Fire fighting measures

Extinguishing Media: Use water.

Decomposition/Combustion Products: Oxides of carbon. Sucrose is a combustible solid. Airborne sucrose (in sufficient concentrations) may explode in air if exposed to an ignition source.

Explosive Properties:

LEL: N/D

UEL: N/D

SECTION 6. ACCIDENTAL RELEASE MEASURES

Steps to be taken if material is released or spilled: Use proper personal protective equipment. Stay upwind from spill. For small dry spills, carefully scoop material into suitable containers for later disposal. Vacuuming (with appropriate filter) or wet mopping may minimize dust dispersion. For small solution spills, take up with earth, sand, vermiculite, or other absorbent, noncombustible material. For large solution spills, dike far ahead of liquid spills for later disposal.

Waste disposal method: Dispose of according to local, state and federal regulations in an approved disposal facility or recycling facility.

SECTION 7. HANDLING AND STORAGE

Storage: Store in a well-ventilated area. Keep container tightly closed when not in use. Store in cool, dry area.

Handling: Use proper personal protective equipment. Avoid contact with skin or eyes. Avoid breathing of vapors. Handle in well-ventilated workspace. When handling do not eat, drink, or smoke.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation: Keep work area well ventilated.

Protective clothing: Impermeable gloves and impervious clothing as appropriate.

Eye protection: Chemical goggles where splashing may occur.

Respiratory Protection: Use appropriate respiratory protection when handling or in case of insufficient ventilation.

Special Protection: Safety shower, eye bath, and washing facilities should be available.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Specific gravity @ 4°C(H₂O = 1): 1.59

Flash Point(PMCC Method) (°F): N/D

Vapor density (Air = 1): N/A

Solubility: 1g dissolves in 0.5ml of water

Vapor pressure @ 75: N/A

Evaporation Rate: N/A

Appearance: Hard, white crystals, lumps, or powder; odorless.

Odor: May have a caramel odor when heated.

Boiling Point (°F): 320-367

Melting Point (°F): 320-367

Viscosity: N/A

pH: Solutions are neutral

Auto-ignition: N/D

SECTION 10. STABILITY AND REACTIVITY

Stability and Reactivity: Stable in normal conditions.

Incompatible Materials: Oxidizers, sulfuric acid, and nitric acid.

Hazardous Decomposition Products: Thermal oxidative decomposition of sucrose can produce carbon oxides, acrid smoke and irritating fumes.

Hazardous Polymerization: None described.

SECTION 11. TOXICOLOGICAL INFORMATION

Rat, oral, LD₅₀: 29700 mg/kg caused somnolence (general depressed activity), cyanosis, hypermotility, and diarrhea.

Reproductive effects:



Rat, oral: 1548 g/kg administered to a female 21 days prior to mating and 1-22 days of pregnancy caused specific developmental abnormalities involving the central nervous system.

Rat, oral: 683 g/kg administered to a female 1-21 days of pregnancy caused specific developmental abnormalities involving the hepatobiliary system and effects on the newborn-growth statistics.

Genetic Effects:

S. cerevisiae: 300 mg/L affected DNA repair

SECTION 12. ECOLOGICAL INFORMATION

No Data

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal: If spilled, dispose according to local, state, and federal regulations. Recycle waste containers and clean out residues.

SECTION 14. TRANSPORT INFORMATION

DOT Transport Information: Non-Regulated

SECTION 15. REGULATORY INFORMATION

Toxic Substances Control Act (TCSA): All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

CERCLA RQ-40 CFR 302.4(a)

Component

None

CERCLA RQ

SARA 302 Components-40 CFR 355 Appendix A

None

Section 311/312 Hazard Class-40 CFR 370.2

Immediate ()

Delayed ()

Fire (X)

Reactive ()

Sudden Release of Pressure ()

SARA 313-40 CFR 372.65

Component

None

CAS Number

%

SECTION 16. OTHER INFORMATION

NFPA RATING: Health (0) Fire (1) Reactivity (0)

WE CANNOT ANTICIPATE ALL CONDITIONS UNDER WHICH THIS INFORMATION AND OUR PRODUCTS, OR THE PRODUCTS OF OTHER MANUFACTURERS IN COMBINATION WITH OUR PRODUCTS MAY BE USED. WE ACCEPT NO RESPONSIBILITY FOR RESULTS OBTAINED BY THE APPLICATION OF THIS INFORMATION OR THE SAFETY AND SUITABILITY OF OUR PRODUCTS, EITHER ALONE OR IN COMBINATION WITH OTHER PRODUCTS. USERS ARE ADVISED TO MAKE THEIR OWN TESTS TO DETERMINE THE SAFETY AND SUITABILITY OF EACH PRODUCT OR PRODUCT COMBINATION FOR THEIR OWN PURPOSES. UNLESS OTHERWISE OBTAINED IN WRITING, WE SELL THE PRODUCTS WITHOUT WARRANTY, AND BUYERS AND USERS ASSUME ALL RESPONSIBILITY AND LIABILITY FOR LOSS OR DAMAGE ARISING FROM HANDLING AND USE OF OUR PRODUCTS, WHETHER USED ALONE OR IN COMBINATION WITH OTHER PRODUCTS.

N/D= No data; N/A = Not available; N/E= Not established