## MATERIAL SAFETY DATA SHEET

# SOTS-1 (technical grade): sc-205511



The Power to Question

### 1. Product and Company Identification

sc-205511 **Product Number:** 

**Product Name:** SOTS-1 (technical grade)

**Manufacturer Information** 

Santa Cruz Biotechnology, Inc. **Company Name:** 

2145 Delaware Avenue Santa Cruz, California 95060

Information: 800.457.3801 or 831.457.3800

**CAS Number:** 223507-96-8

Synonyms: 4,4'-[azobis(oxymethylene]bis-benzoic acid; Superoxide Thermal Source;

Di-(4-Carboxybenzyl)Hyponitrite

#### 2. Composition/Information on Ingredients

Hazardous Components (Chemical Name)	CAS#	Concentration	OSHA PEL	ACGIH TLV
1. SOTS-1	223507-96-8	100.0 %	No data.	No data.

#### 3. Hazards Identification

**Emergency Overview:** No data available.

Route(s) of Entry: Inhalation? Yes Skin? Yes Eyes? Yes Ingestion? Yes Other: Injection

Potential Health Effects (Acute and Chronic): Toxic.

Material may be irritating to the mucous membranes and upper respiratory tract.

May be harmful by inhalation, ingestion, or skin absorption. May cause eye, skin, or respiratory system irritation.

The toxicological properties of this compound have not been fully evaluated.

Signs and Symptoms Of Exposure: Unconsciousness.

Nausea.

#### 4. First Aid Measures

**Emergency and First Aid Procedures:** 

If inhaled remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained

personnel. Get immediate medical attention.

If swallowed, wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed

to do so by medical personnel.

In case of contact with eyes, hold eyelids apart and flush eyes with plenty of water. After initial flushings, remove any contact lenses and continue flushing for at least 20 minutes. Have eyes

examined and tested by medical personnel.

In case of skin contact, immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

### Fire Fighting Measures

Flash Pt: No data.

**Explosive Limits:** LEL: No data. UEL: No data.

Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH

approved or equivalent), and full protective gear to prevent contact with skin and eyes.

Flammable Properties and Hazards: May emit toxic fumes under fire conditions.

**Extinguishing Media:** Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray when fighting fires

involving this material.

**Unsuitable Extinguishing Media:** No data available.

#### Accidental Release Measures Steps To Be Taken In Case Material Is Wear a NIOSH/MSHA approved self-contained breathing apparatus and appropriate personal Released Or Spilled: protection (rubber boots, safety goggles, and heavy rubber gloves). Vacuum or sweep up material and place in disposal container. Avoid raising dust. After removal, ventilate contaminated area and flush thoroughly with water. Handling and Storage **Hazard Label Information:** Avoid contact with skin and eyes. Do not reuse this container. Use with adequate ventilation. Wash thoroughly after handling. Precautions To Be Taken in Handling: Avoid breathing (dust, vapor, mist, gas). Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Do not reuse this container. Use with adequate ventilation. Wash thoroughly after handling. **Precautions To Be Taken in Storing:** Store at correct temperature. Protect from moisture. Store away from acids. 8. **Exposure Controls/Personal Protection Protective Equipment Summary - Hazard** Eye wash station in work area Lab coat Latex disposable gloves Safety glasses Safety **Label Information:** shower in work area Vent Hood Respiratory Equipment (Specify Type): No data available. **Eye Protection:** Safety glasses **Protective Gloves:** Compatible chemical-resistant gloves Other Protective Clothing: Lab coat **Engineering Controls (Ventilation etc.):** Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Work/Hygienic/Maintenance Practices: Do not take internally. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Wash thoroughly after handling. Physical and Chemical Properties **Physical States:** [ ] Gas [ ] Liquid [X] Solid **Melting Point:** No data. **Boiling Point:** No data. **Autoignition Pt:** No data. Flash Pt: No data. **Explosive Limits:** LEL: No data. UEL: No data. Specific Gravity (Water = 1): No data. Bulk density: No data. Vapor Pressure (vs. Air or mm Hg): No data. Vapor Density (vs. Air = 1): No data. Evaporation Rate (vs Butyl Acetate=1): No data. Solubility in Water: 0.3 mg/ml\* at 25.0 C \*DMF:PBS pH 7.2 (1:2), also sol. in DMF & DMSO; see product insert. **Solubility Notes: Percent Volatile:** No data. **Heat Value:** No data. Particle Size: No data. **Corrosion Rate:** No data.

Formula: C16H14N2O6 Molecular Weight: 330.30 :Hq No data. Appearance and Odor: A crystalline solid 10. Stability and Reactivity Stability: Stable [X] Unstable [ ] Conditions To Avoid - Instability: No data available. Incompatibility - Materials To Avoid: acids metals **Hazardous Decomposition Or Byproducts:** No data available. **Hazardous Polymerization:** Will occur [ ] Will not occur [X] **Conditions To Avoid - Hazardous** No data available. Polymerization: 11. Toxicological Information The toxicological effects of this compound have not been thoroughly studied. Carcinogenicity/Other Information: No data available. Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No Ecological Information Runoff from fire control or dilution water may cause pollution. This material is expected to be toxic to aquatic life, may cause long-term adverse effects in the aquatic environment. Disposal Considerations Waste Disposal Method: Dispose in accordance with local, state and federal regulations. 14. Transport Information LAND TRANSPORT (US DOT) **DOT Proper Shipping Name** Toxic solids, organic, n.o.s. **DOT Hazard Class:** 6.1 **DOT Hazard Label:** POISON **UN/NA Number:** UN2811 **Packing Group:** II **Additional Transport Information:** Transport in accordance with local, state, and federal regulations. Regulatory Information **US EPA SARA Title III Hazardous Components (Chemical Name)** CAS# Sec.302 (EHS) Sec.304 RQ Sec.313 (TRI) Sec.110 SOTS-1 223507-96-8 No No No US EPA CAA, CWA, TSCA **Hazardous Components (Chemical Name)** CAS# **EPA CAA EPA CWA NPDES EPA TSCA CA PROP 65** SOTS-1 223507-96-8 No No

## 16. Other Information

The above information is believed to be correct but does not purport to be complete and should be used only as a guide. The burden of safe use of this material rests entirely with the user.

**Emergency Contact:** 

Santa Cruz Biotechnology, Inc. 2145 Delaware Avenue Santa Cruz, California 95060 800.457.3801 or 831.457.3800 or Luis Yanez 831.251.2170