

MATERIAL SAFETY DATA SHEET



The Power to Question

Cylindrospermopsin: sc-203014

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Cylindrospermopsin
SYNONYMS: N/A
CATALOG NUMBER: sc-203014

COMPANY: Santa Cruz Biotechnology, Inc.
2145 Delaware Avenue
Santa Cruz, California 95060
800.457.3801 or 831.457.3800

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

<u>Formula:</u>	<u>CAS #</u>	<u>EC #</u>	<u>Annex I Index #</u>
C ₁₅ H ₂₁ N ₅ O ₇ S	143545-90-8	N/A	N/A

SECTION 3: HAZARDS IDENTIFICATION

ACUTE HEALTH EFFECTS: **VERY TOXIC. HIGHLY IRRITANT. Fatal by inhalation, ingestion, or skin absorption.**

SECTION 4: FIRST AID MEASURES

EYES: Rinse immediately with plenty of water for 15 minutes. Check for and remove any contact lenses. Seek medical attention if symptoms appear.

SKIN: Wash immediately with water for 15 minutes. Remove contaminated clothing. Seek medical attention if symptoms appear.

INGESTION: Rinse mouth with water. Do not induce vomiting. Seek medical attention if symptoms appear. Provide MSDS and label information if possible.

INHALATION: Take into fresh air. If breathing is difficult, administer oxygen. Get medical attention.

SECTION 5: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Water spray, water foam, polymer foam, carbon dioxide, dry chemicals.

SPECIAL FIRE FIGHTING PROCEDURES: In case of fire, watch out for the formation of toxic smoke and gases. Wear self-contained respiration equipment. Prevent contact with skin and eyes.

UNUSUAL FIRE AND EXPLOSION HAZARDS: N/A

HAZARDOUS DECOMPOSITION PRODUCTS: N/A

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SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:	Evacuate area. Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves.
ACCIDENTAL RELEASE MEASURES:	Avoid formation of dust, sweep up spill and place in sealed container and hold for disposal. Ventilate area and wash spill site after material pickup is complete.

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE:	Keep locked up. Keep away from heat, sources of ignition and incompatibles such as oxidizing agents. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Avoid contact with skin and eyes; do not breathe dust. Avoid prolonged or repeated exposure. Immediately remove all contaminated clothing. Wash hands before breaks and after work. Avoid eating, drinking and storage of food in the work room. Store tightly sealed at -20°C.
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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:	Use only in chemical fume hood. Safety shower and eye bath.
VENTILATION:	Government approved respirator.
EYE PROTECTION:	Chemical safety goggles.
SKIN PROTECTION:	Compatible gloves, protective coat or clothing.
SECTION 8 NOTES:	Wash thoroughly after handling. Wash contaminated clothing before reuse.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Glassy solid.
ODOR:	N/A
pH AS SUPPLIED:	N/A
BOILING POINT:	N/A
MELTING POINT:	N/A
FREEZING POINT:	N/A
VAPOR PRESSURE (mmHg):	N/A
VAPOR DENSITY (AIR = 1):	N/A
SPECIFIC GRAVITY (H₂O = 1):	N/A
EVAPORATION RATE:	N/A
BASIS (=1):	N/A

SOLUBILITY: Soluble in water, methanol or DMSO.
MOLECULAR WEIGHT: 415.4

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable. Avoid strong oxidizing agents.
HAZARDOUS DECOMPOSITION: Carbon monoxide, carbon dioxide, nitrogen oxides, halogenated compounds.
HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

RTECS # : UV9104310
TOXICOLOGICAL INFORMATION: VERY TOXIC. May be fatal by inhalation, ingestion, or skin absorption. Exposure may cause diarrhea, itching, damage to liver. May cause irritation by inhalation, ingestion, or skin absorption. To the best of our knowledge, the toxicological properties have not been thoroughly investigated.
LD50: Mouse [intraperitoneal]: 2.1 mg/kg
CHRONIC EXPOSURE: Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.
CHRONIC EXPOSURE-CARCINOGEN: Not available.
CHRONIC EXPOSURE-MUTAGEN: Not available.
CHRONIC EXPOSURE-TERATOGEN: Not available.

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: N/A

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

SECTION 14: TRANSPORT INFORMATION

INTERNATIONAL TRANSPORT REGULATIONS:
LAND – ROAD/RAILWAY: ADR/RID: Not available.
SEA: IMDG: Not available.
AIR: IATA-DGR: Not available.
SPECIAL PROVISIONS FOR TRANSPORT: N/A

SECTION 15: REGULATORY INFORMATION

CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES:

SYMBOL OF DANGER:	Not classified.
R-PHRASES:	R26/27/28 - Very toxic by inhalation, in contact with skin and if swallowed. R36/37/38 - Irritating to eyes, respiratory system and skin. R43 - May cause sensitization by skin contact.
S-PHRASES:	S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection. S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
U.S. FEDERAL REGULATIONS:	Not classified.
HCS CLASSIFICATION:	Not classified.
WHMIS (CANADA):	Not classified.

SECTION 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