



The Power to Question

Cholera Toxin (azide-free): sc-200838

MATERIAL SAFETY DATA SHEET

Section 1 : Substance Identification

Name: Cholera Toxin (azide-free) **CAS Number:** 9012-63-9

Catalog Number: sc-200838 **Chemical Formula:**

Chemical Class: Protein

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

Section 2 : Health Hazard Data

Acute Health Effects: This product is not infectious. However, introduction of this product to the blood stream via ingestion, injection, or surface skin cuts, can cause the symptoms of Cholera. These symptoms may include diarrhea, fever, and dehydration. If exposure is suspected, seek medical help immediately.

Chronic Health Effects: Not Available

Section 3 : First Aid Measures

Eye Contact: Check for and remove contact lenses. Flush eyes with running water for at least 15 minutes separating eyelids. **Seek medical attention immediately**

Skin Contact: Wash with soap and water for 15 minutes. Remove contaminated clothing and shoes. **Seek medical attention immediately.**

Skin Prick: If skin should be punctured or cut by a hypodermic needle, or other sharp object contaminated with cholera toxin, encourage bleeding, and perform vigorous flushing of the area with copious amounts of water or saline. **Seek medical attention immediately.**

Inhalation: Remove from exposure. If breathing is difficult, administer oxygen. If breathing stops, administer artificial respiration. **Seek medical attention immediately.** Provide chemical label and MSDS if possible.

Ingestion: If toxin is swallowed, seek medical attention immediately and advise that the symptoms of Cholera are likely to develop.

I.V., I.M. Injection: If accidental injection should occur, **seek physicians attention immediately.** Apart from hyperimmune globulin versus cholera toxin, which is not commercially available, there is no specific antidote.

Section 4 : Fire and Explosion Data

This product poses no significant risk during fire. Wear protective clothing, and avoid coming in contact with any material which may have spilled.

Section 5 : Spill or Leak Procedures

Cleanup Procedures: **EVACUATE AREA** Wearing appropriate protective gear as outlined under "Protective equipment" wipe up spill and place in sealed container and hold for disposal. If there is broken glass or any other sharp material in the spill area, take extreme care. Contaminated equipment and materials should be boiled at 100°C for 30 minutes or autoclaved at 121°C and 15 psi for 30 minutes. This treatment will deactivate the toxin.

Waste Disposal Method: This product can be safely disposed of by deactivating the toxin by either boiling or autoclaving as described above. Observe all Federal, State and Local regulations concerning the disposal of this product.

Section 6 : Storage and Handling Precautions

Protective Equipment: For spill clean up, wear suitable protective clothing, chemical resistant rubber gloves, rubber boots, and chemical safety goggles. Self contained breathing apparatus or NIOSH/MSHA approved respirator, is not necessary unless the product is being handled in it's powdered form. If there is a possibility of being cut or pricked, it may be wise to wear puncture resistance gloves or several layers of standard disposable gloves.

Storage and Handling: This product should be stored at 4°C. It should be kept in a tightly closed container. This product should be handled only by qualified experienced professionals. Good laboratory technique should be followed at all times. Wash thoroughly after handling this material. Extreme care should be taken not to release this product into the environment. All equipment that comes in contact with this material should be sterilized immediately.

Section 7 : Physical Data

Appearance: Lyophilized solid
Molecular Weight: 84.7 kDa
Boiling Point: Not Available
Solubility: Water
Specific Gravity: Not Available
Volatility: Not Available

Odor: Not Available
Taste: Not Available
Melting Point: Not Available
Vapor Density: Not Available
Vapor Pressure: Not Available

Section 8 : Stability and Reactivity Data

Stability: This material is stable if stored as directed. Do not freeze.

Conditions to Avoid: None known

Incompatibles: Not available

Section 9 : Toxicity Data

RTECS#:

I.V. LD50: Mouse : 250 μ g/kg

Note: There is no LD50 information available for humans; however, it is believed that humans are more susceptible than animals

Section 10 : Ecological Data

Ecotoxicological Information: None Available

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.
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Santa Cruz, California 95060
800.457.3801 or 831.457.3800
or Luis Yanez 831.251.2170