

# Isochlortetracycline: sc-211668



The Power to Question

## MATERIAL SAFETY DATA SHEET

### Section 1 - General Information

**Chemical Name:**

Isochlortetracycline

**Catalog Number:**

sc-211668 514-53-4

**CAS Number:**

514-53-4

**Supplier:**

Santa Cruz Biotechnology, Inc.  
2145 Delaware Avenue  
Santa Cruz, CA 95060  
800.457.3801 or 831.457.3800

**Emergency:**

ChemWatch

Within the US & Canada: 877-715-9305

Outside the US & Canada: +800 2436 2255  
(1-800-CHEMCALL) or call +613 9573 3112

### Section 2 - Hazardous Ingredients/Identity Information

Emergency Overview:

Target Organs: Liver, Teeth., Bone

HMIS Classification:

Health Hazard: 2

Flammability: 0

Physical hazards: 0

### Section 3 - Physical/Chemical Characteristics

**Boiling Point:**

N/A

**Form:**

Solid

**Vapor Pressure:**

N/A

**Specific Gravity(H<sub>2</sub>O=1):**

N/A

**Molecular Formula:**

C<sub>22</sub>H<sub>23</sub>ClN<sub>2</sub>O<sub>8</sub>

**Solubility in Water:**

Yes

**Melting Point:**

> 200°C

**Evaporation Rate (ButylAcetate=1):**

N/A

**Vapor Density:**

N/A

**Molecular Weight:**

478.88

### Section 4 - Reactive Data

**Stability:**

STABLE, hygroscopic store under inert gas, protect from light

**Incompatibility (Materials to Avoid):**

Strong oxidizing agents

**Conditions to Avoid:**

Strong oxidizers, moisture and light

**Hazardous Decomposition or Byproducts:**

CARBON MONOXIDE, CARBON DIOXIDE, NITROGEN OXIDES, hydrogen chloride gas

**Hazardous Polymerization:**

WILL NOT OCCUR

## ***Section 5 - Control Measures***

### **Respiratory Protection:**

Niosh/Msha approved respirator

### **Protective Gloves:**

Chemical resistant gloves

### **Other Protective Clothing:**

Lab coat or apron

### **Ventilation:**

Hood

### **Eye Protection:**

chemical safety goggles

### **Other Protection:**

safety shower and eye bath

## ***Section 6 - First Aid Measures***

### **Inhalation:**

IF INHALED, REMOVE TO FRESH AIR. IF BREATHING BECOMES DIFFICULT, CALL A PHYSICIAN.

### **Skin:**

IN CASE OF SKIN CONTACT, FLUSH WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES.

REMOVE CONTAMINATED CLOTHING AND SHOES.

### **Ingestion:**

IN SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS. CALL A PHYSICIAN.

### **Eyes:**

IN CASE OF CONTACT WITH EYES, FLUSH WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MIN..

ASSURE ADEQUATE FLUSHING BY SEPARATING EYELIDS.

## ***Section 7 - Health Hazard Data***

### **Health Hazards (Acute and Chronic):**

**Acute toxicity:** no data available

**Irritation and corrosion:** no data available

**Sensitization:** no data available

### **Chronic exposure**

IARC: No component of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

Laboratory experiments have shown teratogenic effects. Reproductive toxicity – mouse – Subcutaneous Effects on Newborn: Viability index (e.g., # alive at day 4 per # born alive). Effects on Newborn: Growth statistics (e.g., reduced weight gain).

**Signs and Symptoms of Exposure:** Nausea, Vomiting

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

### **Potential Health Effects**

**Inhalation** May be harmful if inhaled. Causes respiratory tract irritation.

**Skin** May be harmful if absorbed through skin. Causes skin irritation.

**Eyes** Causes eye irritation. Ingestion May be harmful if swallowed.

**Target Organs** Liver, Teeth., Bone

**Additional Information:** An inactive metabolite of Chlortetracycline (CTC).

### **Medical Conditions Generally Aggravated by Exposure:**

To the best of our knowledge the chemical, physical, and toxicological properties have not been thoroughly investigated. Exercise due care.

## ***Section 8 - Precautions for Safe Handling and Use***

### **Steps to be Taken in Case Material is Released or Spilled:**

WEAR PROTECTIVE EQUIPMENT. SWEEP UP, PLACE IN A BAG AND HOLD FOR WASTE DISPOSAL. AVOID RAISING DUST. VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.

### **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.

### **Precautions to Be Taken in Handling and Storage:**

MECHANICAL EXHAUST REQUIRED. DO NOT BREATHE DUST. AVOID CONTACT WITH EYES, SKIN AND CLOTHING. KEEP TIGHTLY CLOSED. STORE IN A COOL DRY PLACE.

## ***Section 9 - Fire and Explosion Hazard Data***

### **Extinguishing Media:**

WATER SPRAY. CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM.

### **Special Fire Fighting Procedures:**

WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.

### **Unusual Fire and Explosion Hazards:**

Emits Toxic Fumes under Fire Conditions.

## ***Section 10 - Transportation Information and Regulatory Information***

### **DOT**

Proper Shipping Name: None

Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

### **IATA**

Non-Hazardous for Air Transport: Non-hazardous for air transport.

***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.***

06/24/2011