

# Tolperisone Hydrochloride: sc-208444



*The Power to Question*

## MATERIAL SAFETY DATA SHEET

### Section 1 - General Information

**Chemical Name:**

Tolperisone Hydrochloride

**CAS Reg. Number:**

3644-61-9

**Catalog Number:**

sc-208444

**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,**

Harmful. Harmful by inhalation, in contact with skin and if swallowed.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.,

**Target organ(s):**

Skeletal muscle.

**HMIS RATING**

HEALTH: 1

FLAMMABILITY: 0

REACTIVITY: 0

**NFPA RATING**

HEALTH: 1

FLAMMABILITY: 0

REACTIVITY: 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>16</sub>H<sub>24</sub>ClNO

**Solubility in Water:**

Yes

**Melting Point:**

181-183° C

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

N/A

**Vapor Density:**

N/A

**Molecular Weight:**

281.82

### Section 4 - Reactive Data

**Stability:**

Stable but may pick up moisture

**Incompatibility (Materials to Avoid):**

Strong oxidizers

**Conditions to Avoid:**

Strong oxidizers and damp locations

**Hazardous Decomposition or Byproducts:**

Toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides and hydrogen chloride gas

**Hazardous Polymerization:**

will not occur

## **Section 5 - Control Measures**

### **Respiratory Protection:**

Niosh/Osha 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:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

**Skin:** Wash with copious amounts of water.

**Ingestion:** If swallowed, consult a Physician immediately.

**Eyes:** Flush with copious amounts of water for at least 15 minutes.

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

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

#### **ROUTE OF EXPOSURE**

**Skin Contact:** May cause skin irritation.

**Skin Absorption:** Harmful if absorbed through skin.

**Eye Contact:** May cause eye irritation.

**Inhalation:** Harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

**Ingestion:** Harmful if swallowed.

#### **TARGET ORGAN(S) OR SYSTEM(S)**

Skeletal muscle.

#### **SIGNS AND SYMPTOMS OF EXPOSURE**

May cause nausea, vomiting, heartburn, abdominal discomfort, constipation, diarrhea, drowsiness, dizziness, skin rash, headache.

#### **TOXICITY DATA**

Oral Rat 1450 mg/kg

LD50 Intraperitoneal Rat 170 MG/KG

LD50 Subcutaneous Rat 645 MG/KG

LD50 Oral Mouse 358 mg/kg

LD50 Intraperitoneal Mouse 210 MG/KG

LD50 Subcutaneous Mouse 655 MG/KG

LD50 Intravenous Mouse 34 MG/KG

LD50 Intravenous Dog 45 MG/KG

#### **LD50 Remarks:**

**Behavioral:** Change in motor activity (specific assay).

**Behavioral:** Convulsions or effect on seizure threshold.

**Behavioral:** Muscle weakness.

#### **Intravenous Cat 40 MG/KG LD50 Remarks:**

**Behavioral:** Convulsions or effect on seizure threshold.

**Behavioral:** Change in motor activity (specific assay).

**Behavioral:** Muscle weakness.

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

The chemical, physical, and toxicological properties of this product have not been thoroughly investigated.

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

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

Wear respirator, chemicals safety goggles, rubber boots and heavy rubber gloves. 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 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:**

Avoid contact & inhalation. Keep tightly closed. Restrict handling by unqualified personnel. Store at -20° C.

## **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.***

9/21/2011