

# Ivabradine Hydrochloride: sc-211682



*The Power to Question*

## MATERIAL SAFETY DATA SHEET

### Section 1 - General Information

**Chemical Name:**

Ivabradine Hydrochloride

**CAS Reg. Number:**

148849-67-6

**Supplier:**

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

**Catalog Number:**

sc-211682

**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**

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

### Section 3 - Physical/Chemical Characteristics

**Boiling Point:**

N/A

**Form:**

Powder

**Vapor Pressure:**

N/A

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

N/A

**Molecular Formula:**

C<sub>27</sub>H<sub>36</sub>N<sub>2</sub>O<sub>5</sub> • HCl

**Solubility in Water:**

N/A

**Melting Point:**

193-196° C

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

N/A

**Vapor Density:**

N/A

**Molecular Weight:**

505.05

### Section 4 - Reactive Data

**Stability:**

Stable

**Incompatibility (Materials to Avoid):**

Strong oxidizing agents

**Conditions to Avoid:**

Strong oxidizers

**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:**

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

### **Skin:**

Rinse with copious amounts of water for 15 minutes. Remove contaminated clothing and shoes.

### **Ingestion:**

Rinse mouth out with water, provided the person is conscious. Seek medical attention.

### **Eyes:**

Flush eyes with copious amounts of water, separating eyelids with fingers.

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

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

The toxicological effects have not been thoroughly tested. Exercise due care.

### **ROUTE OF EXPOSURE**

**Skin Contact:** Causes skin irritation.

**Skin Absorption:** May be harmful if absorbed through the skin.

**Eye Contact:** Causes eye irritation.

**Inhalation:** May be harmful if inhaled. Material is irritating to mucous membranes and upper respiratory tract.

**Ingestion:** Harmful if swallowed.

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

May be harmful by inhalation, ingestion or skin absorption. May cause irritation. The toxicological properties 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, chemical safety goggles, rubber boots and heavy rubber gloves. Sweep up, place in 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:**

Store in a cool, dry place. Avoid prolonged, repeated exposure. Wash after handling. Wear chemical safety goggles, chemical resistant gloves, and NIOSH/MSHA-approved respirator. 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.***

4/22/2011