

# Yohimbine hydrochloride: sc-204412



The Power to Question

## MATERIAL SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Yohimbine hydrochloride  
**Product Number:** sc-204412  
**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

### 2. HAZARDS IDENTIFICATION

#### Emergency Overview

#### OSHA Hazards

Target Organ Effect. Highly toxic by inhalation. Highly toxic by ingestion. Toxic by skin absorption.

#### Target Organs

Heart. Nerves.

#### GHS Label elements, including precautionary statements

Pictogram



Signal word                      Danger

#### Hazard statement(s)

H300 + H330                      Fatal if swallowed or if inhaled.  
H311                                      Toxic in contact with skin.

#### Precautionary statement(s)

P260                                      Do not breathe dust/fume/gas/mist/vapors/spray.  
P264                                      Wash hands thoroughly after handling.  
P280                                      Wear protective gloves/protective clothing.  
P284                                      Wear respiratory protection.  
P310                                      Immediately call a POISON CENTER or doctor/physician.

#### HMIS Classification

**Health hazard:**                      4  
**Chronic Health Hazard:**                      \*  
**Flammability:**                                      0  
**Physical hazards:**                                      0

#### NFPA Rating

**Health hazard:**                                      4  
**Fire:**    0  
**Reactivity Hazard:**                                      0

#### Potential Health Effects

**Inhalation:**                      May be fatal if inhaled. May cause respiratory tract irritation.  
**Skin:**                                      Toxic if absorbed through skin. May cause skin irritation.  
**Eyes:**                                      May cause eye irritation.  
**Ingestion:**                      May be fatal if swallowed.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Synonyms:** 17-Hydroxyyohimban-16-carboxylic acid methyl esterhydrochloride

**Formula:** C<sub>21</sub>H<sub>26</sub>N<sub>2</sub>O<sub>3</sub> · HCl

**Molecular Weight:** 390.91 g/mol

<i>CAS-No.</i>	<i>EC-No.</i>	<i>Index-No.</i>	<i>Concentration</i>
<b>Yohimbine hydrochloride</b> 65-19-0	200-600-4	-	-

### 4. FIRST AID MEASURES

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

#### If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions

Wear respiratory protection. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Evacuate personnel to safe areas.

#### Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

#### Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

### 7. HANDLING AND STORAGE

#### Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

#### Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place. Light sensitive. Keep in a dry place. Store at room temperature.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

#### Personal protective equipment

##### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

##### Hand protection

Handle with gloves.

##### Eye protection

Face shield and safety glasses

### **Skin and body protection**

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

### **Hygiene measures**

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

Form	powder	pH	no data available
Boiling point	no data available	Flash point	no data available
Ignition temperature	no data available	Lower explosion limit	no data available
Upper explosion limit	no data available	Water solubility	no data available
Melting point	288 - 290 °C (550 - 554 °F) - dec.		

## **10. STABILITY AND REACTIVITY**

### **Chemical stability**

Stable under recommended storage conditions.

### **Conditions to avoid**

no data available

### **Materials to avoid**

Strong oxidizing agents

### **Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions - Carbon oxides, nitrogen oxides (NOx), hydrogen chloride gas

## **11. TOXICOLOGICAL INFORMATION**

### **Acute toxicity**

**LD50 Oral - mouse** - 40 mg/kg

### **Remarks**

**Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):** Eye. Ptosis.

**Behavioral:** Muscle contraction or spasticity. Respiratory disorder.

### **Skin corrosion/irritation**

no data available

### **Serious eye damage/eye irritation**

no data available

### **Respiratory or skin sensitization**

no data available

### **Germ cell mutagenicity**

no data available

### **Carcinogenicity**

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.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

### **Reproductive toxicity**

no data available

### **Specific target organ toxicity - Single exposure (GHS)**

no data available

### **Specific target organ toxicity - Repeated exposure (GHS)**

no data available

**Aspiration hazard**

no data available

**Potential health effects**

**Inhalation:** May be fatal if inhaled. May cause respiratory tract irritation.

**Ingestion:** May be fatal if swallowed.

**Skin:** Toxic if absorbed through skin. May cause skin irritation.

**Eyes:** May cause eye irritation.

**Signs and Symptoms of Exposure**

**Prolonged or repeated exposure can cause:** Damage to the heart. Yohimbine produces competitive alphaadrenergic blockade and blocks 5- hydroxytryptamine receptors. It penetrates the CNS readily producing a complex pattern of responses which include antidiuresis, elevations of blood pressure and heart rate, increased motor activity, irritability and tremor, sweating, nausea, and vomiting. It is a selective inhibitor of alpha-2 adrenergic receptors enhancing neural release of norepinephrine. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Additional Information**

**RTECS:** ZG1015000

**12. ECOLOGICAL INFORMATION****Toxicity**

no data available

**Bioaccumulative potential**

no data available

**PBT and vPvB assessment**

no data available

**Persistence and degradability**

no data available

**Mobility in soil**

no data available

**Other adverse effects**

no data available

**13. DISPOSAL CONSIDERATIONS****Product**

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Contaminated packaging**

Dispose of as unused product.

**14. TRANSPORT INFORMATION****DOT (US)**

UN-Number: 1544 Class: 6.1 Packing group: II

Proper shipping name: Alkaloid salts, solid, n.o.s. (Yohimbine hydrochloride)

Marine pollutant: No

Poison Inhalation Hazard: No

**IMDG**

UN-Number: 1544 Class: 6.1 Packing group: II

EMS-No: F-A, S-A

Proper shipping name: ALKALOID SALTS, SOLID, N.O.S. (Yohimbine hydrochloride)

Marine pollutant: No

**IAT A**

UN-Number: 1544 Class: 6.1 Packing group: II

Proper shipping name: Alkaloid salts, solid, n.o.s. (Yohimbine hydrochloride)

**15. REGULATORY INFORMATION****OSHA Hazards**

Target Organ Effect. Highly toxic by inhalation. Highly toxic by ingestion. Toxic by skin absorption

**DSL Status**

This product contains the following components listed on the Canadian NDSL list. All other components are on the Canadian DSL list.

Yohimbine hydrochloride

CAS-No. 65-19-0

**SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**

Acute Health Hazard, Chronic Health Hazard

**Massachusetts Right To Know Components**

No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right To Know Components**

Yohimbine hydrochloride

CAS-No. 65-19-0

**New Jersey Right To Know Components**

Yohimbine hydrochloride

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**California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**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.*

4/13/2012