


**SECTION 1: PRODUCT IDENTIFICATION**

<b>PRODUCT NAME</b>	<b>RESERPINE, USP</b>
<b>PRODUCT CODE</b>	<b>0159</b>
<b>SUPPLIER</b>	<b>MEDISCA Inc.</b> Tel.: 1.800.932.1039   Fax.: 1.855.850.5855 661 Route 3, Unit C, Plattsburgh, NY, 12901 3955 W. Mesa Vista Ave., Unit A-10, Las Vegas, NV, 89118 6641 N. Belt Line Road, Suite 130, Irving, TX, 75063 <b>MEDISCA Pharmaceutique Inc.</b> Tel.: 1.800.665.6334   Fax.: 514.338.1693 4509 Rue Dobrin, St. Laurent, QC, H4R 2L8 21300 Gordon Way, Unit 153/158, Richmond, BC V6W 1M2 <b>MEDISCA Australia PTY LTD</b> Tel.: 1.300.786.392   Fax.: 61.2.9700.9047 Unit 7, Heritage Business Park 5-9 Ricketty Street, Mascot, NSW 2020
<b>EMERGENCY PHONE</b>	CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 NSW Poisons Information Centre: 131 126
<b>USES</b>	Cardiovascular drug

**SECTION 2: HAZARDS IDENTIFICATION**

<b>GHS CLASSIFICATION</b>	Acute Toxicity - Oral (Category 4) Carcinogenicity (Category 2) Chronic Aquatic Toxicity (Category 2) Toxic to Reproduction (Category 2) Specific Target Organ Toxicity - Single Exposure (Category 3) - (Narcotic effects)								
<b>PICTOGRAM</b>									
<b>SIGNAL WORD</b>	Warning								
<b>HAZARD STATEMENT(S)</b>	Harmful if swallowed. Suspected of causing cancer. Very toxic to aquatic life with long lasting effects. Suspected of damaging fertility or the unborn child. May cause drowsiness or dizziness.								
<b>AUSTRALIA-ONLY HAZARDS</b>	Not applicable								
<b>PRECAUTIONARY STATEMENT(S)</b>	<table border="0"> <tr> <td><b>Prevention</b></td> <td>           Wash thoroughly after handling            Do not eat, drink or smoke when using this product.            Obtain special instructions before use.            Do not handle until all safety precautions have been read and understood.            Wear protective gloves, protective clothing, eye protection, face protection.            Avoid release to the environment         </td> </tr> <tr> <td><b>Response</b></td> <td>           IF SWALLOWED: Immediately call a poison center or medical professional; Rinse mouth.            IF EXPOSED OR CONCERNED: Get medical advice/attention.            COLLECT SPILLAGE         </td> </tr> <tr> <td><b>Storage</b></td> <td>Store locked up.</td> </tr> <tr> <td><b>Disposal</b></td> <td>Dispose of contents and/or container in accordance with local regulations.</td> </tr> </table>	<b>Prevention</b>	Wash thoroughly after handling Do not eat, drink or smoke when using this product. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing, eye protection, face protection. Avoid release to the environment	<b>Response</b>	IF SWALLOWED: Immediately call a poison center or medical professional; Rinse mouth. IF EXPOSED OR CONCERNED: Get medical advice/attention. COLLECT SPILLAGE	<b>Storage</b>	Store locked up.	<b>Disposal</b>	Dispose of contents and/or container in accordance with local regulations.
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**HMIS CLASSIFICATION**
**Health Hazard**

2

**Flammability**

0

**Reactivity**

0

**Personal Protection**

G

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

**CHEMICAL NAME**

Yohimban -16- carboxylic acid, 11, 17 -dimethoxy -18 - [(3, 4, 5-trimethoxybenzoyl) oxy]-, methyl ester, (3β, 16β, 17α, 18β, 20α)-

**BOTANICAL NAME**

Not applicable

**SYNONYM**

Not applicable

**CHEMICAL FORMULA**
 $C_{33}H_{40}N_2O_9$ 
**CAS NUMBER**

50-55-5

**ALTERNATE CAS NUMBER**

Not applicable

**MOLECULAR WEIGHT**

608.684

**COMPOSITION**

CHEMICAL NAME	CAS NUMBER	% BY WEIGHT
RESERPINE	50-55-5	100

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as health hazards and hence require reporting in this section.

**NOTES**

Chemical family: Rauwolfia alkaloid.

## SECTION 4: FIRST-AID MEASURES

**IN CASE OF EYE CONTACT**

Flush with copious amounts of water for 15 minutes, separating eyelids with fingers. If irritation persists seek medical aid.

**IN CASE OF SKIN CONTACT**

Wash with soap &amp; water for 15 minutes. If irritation persists seek medical aid.

**IF SWALLOWED**

Call a physician. Wash out mouth with water. Do not induce vomiting without medical advice.

**IF INHALED**

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

**SYMPTOMS AND EFFECTS**

Not expected to present a significant hazard under anticipated conditions of normal use.

## SECTION 5: FIREFIGHTING MEASURES

**SPECIFIC HAZARDS ARISING FROM THE CHEMICAL**

Not applicable

**FLAMMABLE PROPERTIES**

May be combustible at high temperature

**HAZARDOUS COMBUSTION PRODUCTS**

Under fire conditions, hazardous fumes will be present.

**EXTINGUISHING MEDIA**

**Small fire:** dry chemical, CO<sub>2</sub> or water spray. **Large fire:** dry chemical, CO<sub>2</sub>, alcohol resistant foam or water spray. Do not get water inside containers.

**PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS**

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS**

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

**METHODS & MATERIAL FOR CONTAINMENT**

On land, sweep or shovel into suitable containers. Minimize generation of dust.

**CLEANUP PROCEDURE**

Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves. Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas. Shut off all sources of ignition. Evacuate the area. If necessary, employ water fog to disperse the vapors. Absorb the matter with compatible vermiculite or other absorbing material. Place in a suitable container and retain for disposal. Ventilate and clean the affected area. Do not flush into sewerage system or to drains.

**SECTION 7: HANDLING AND STORAGE**
**PRECAUTIONS FOR SAFE HANDLING**

Do not inhale. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Wash thoroughly after handling.

**STORAGE CONDITIONS**

Store in original container, tightly sealed container, protected from direct sunlight, in a dry, and well-ventilated area, away from incompatible materials. Store in accordance with local regulations. Eliminate all ignition sources. Separate from oxidizing materials. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. Preserve in tight, light-resistant containers. Store at 25°, excursions permitted between 15° and 30°C.

**SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION**

Chemical Name: RESERPINE CAS #: 50-55-5

	TWA	Ceiling	STEL	REL	IDLH	Remarks
HSE	N/L	N/L	N/L	-	-	-
OSHA PEL	N/L	N/L	-	-	-	-
ACGIH TLV	N/L	N/L	N/L	-	-	-
NIOSH	N/L	N/L	N/L	N/L	N/L	-
AIHA WEEL	N/L	N/L	N/L	-	-	-
Safe Work Australia HSIS	N/L	N/L	N/L	-	-	-

N/L = Not Listed

**EXPOSURE GUIDELINES**

Consult local authorities for provincial or state exposure limits. Particulates not otherwise regulated, respirable fraction: 5 mg/m<sup>3</sup>

**PERSONAL PROTECTIVE EQUIPMENT**

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by WHMIS or OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. **Skin:** Wear appropriate gloves to prevent skin exposure. **Clothing:** Wear appropriate protective clothing to minimize contact with skin. **Respirators:** Follow WHMIS or OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

**SPECIFIC ENGINEERING CONTROLS**

Adequate mechanical ventilation. Fumehood, eye wash station, and safety shower.

**NOTES**

Maximum allowable value for LTE: 500 micron/m<sup>3</sup>

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**
**PHYSICAL STATE**

Solid

<b>DESCRIPTION</b>	White or pale buff to slightly yellowish, odorless, crystalline powder. Darkens slowly on exposure to light, but more rapidly when in solution.				
<b>SOLUBILITY</b>	Insoluble in water; freely soluble in acetic acid and in chloroform; slightly soluble in benzene; very slightly soluble in alcohol and in ether.				
<b>ODOR</b>	Odorless				
<b>FLAMMABILITY</b>	May be combustible at high temperature				
<b>ODOR THRESHOLD</b>	Not available	<b>pH</b>	Not available	<b>MELTING POINT</b>	(258-265)°C, (496.4-509)°F (decomposes)
<b>BOILING POINT</b>	Not available	<b>FREEZING POINT</b>	(258-265)°C, (496.4-509)°F	<b>FLASH POINT</b>	Not available
<b>SPECIFIC GRAVITY</b>	Not available	<b>EVAPORATION RATE</b>	Not available	<b>EXPLOSIVE LIMIT</b>	Not available
<b>UPPER FLAMMABLE/ EXPLOSIVE LIMIT(S)</b>	Not available	<b>LOWER FLAMMABLE/ EXPLOSIVE LIMIT(S)</b>	Not available	<b>VAPOR PRESSURE</b>	< 0.0000001 kPa (25°C)
<b>VAPOR DENSITY (AIR = 1)</b>	Not available	<b>RELATIVE DENSITY (WATER = 1)</b>	Not available	<b>log P (OCTANOL-WATER)</b>	3.32 (20°C)
<b>AUTO-IGNITION TEMPERATURE</b>	Not available	<b>DECOMPOSITION TEMPERATURE</b>	(258-265)°C, (496.4-509)°F	<b>VISCOSITY</b>	Not available

## SECTION 10: STABILITY AND REACTIVITY

<b>REACTIVITY</b>	Not established
<b>STABILITY</b>	Stable under recommended storage conditions
<b>MATERIALS TO AVOID</b>	Strong oxidants, reducing agents, alkalis
<b>HAZARDOUS DECOMPOSITION PRODUCTS</b>	Toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides and other gases may occur
<b>HAZARDOUS POLYMERIZATION</b>	Will not occur
<b>POSSIBILITY OF HAZARDOUS REACTION</b>	Not established
<b>CONDITIONS TO AVOID</b>	Moisture, sunlight and extreme temperatures. Sensitive to light.

## SECTION 11: TOXICOLOGICAL INFORMATION

<b>ACUTE TOXICITY</b>	Oral: Rat: LD50: (mg/kg): 420 Dermal: Rabbit LD50: (mg/kg): Not available Inhalation: Rat: LD50: (mg/L/4hr): Not available
<b>SKIN CORROSION/IRRITATION</b>	Due to lack of data the classification is not possible.
<b>SERIOUS EYE DAMAGE/EYE IRRITATION</b>	Due to lack of data the classification is not possible.
<b>RESPIRATORY OR SKIN SENSITIZATION</b>	Due to lack of data the classification is not possible.

<b>GERM CELL MUTAGENICITY</b>	Based on available data, the classification criteria are not met. Suspected of causing genetic defects.
<b>CARCINOGENICITY</b>	<p><b>OSHA</b> RESERPINE is listed.</p> <p><b>NTP</b> RESERPINE is listed.</p> <p><b>IARC</b> RESERPINE is listed in group 3 (not classifiable as to its carcinogenicity to humans).</p> <p><b>California Proposition 65</b> This product contains the following chemical known to the State of California to cause cancer: RESERPINE.</p>
<b>ADDITIONAL CARCINOGENICITY INFORMATION</b>	Suspected of causing cancer: <10 ppm Carcinogenicity study: Result: Increased incidence of mammary tumors in females mice; malignant tumors of the seminal vesicles in male mice; increased incidence of malignant adrenal medullary tumors in male rats; no evidence of carcinogenicity in female rats. Species: Mouse
<b>REPRODUCTIVE TOXICITY</b>	Suspected of damaging the unborn child. May damage fertility or the unborn child. Rauwolfia alkaloids administered to pregnant women prior to delivery may cause adverse effects in the infants, including respiratory distress, lethargy, cyanosis, and anorexia.
<b>SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE</b>	Narcotic effects.
<b>SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE</b>	Due to lack of data the classification is not possible.
<b>ASPIRATION HAZARDS</b>	Based on available data, the classification criteria are not met.
<b>SIGNS AND SYMPTOMS OF EXPOSURE</b>	<p>Symptoms related to the physical, chemical, and toxicological characteristics Loss of appetite. Nausea. Vomiting. Diarrhea. Blood in vomit. Dry mouth. Black or bloody stools. Heartburn. Stuffy nose. Headache. Dizziness. Confusion. Weakness. Depression. Nervousness. Nightmares. Shortness of breath.</p> <p>Delayed and immediate effects of exposure Arrhythmias. Hypotension. Convulsions. Hypothermia. Coma. Respiratory depression.</p> <p>Cross sensitivity Persons sensitive to other rauwolfia alkaloids may be sensitive to this material also.</p> <p>Medical conditions aggravated by exposure Active alcoholism. Impaired kidney function. Mental depression (active or history of). Gallstones. Peptic ulcer. Ulcerative colitis. Bronchial asthma. Heart problems. Parkinson's disease. Epilepsy.</p>
<b>POTENTIAL HEALTH EFFECTS</b>	<p><b>Inhalation</b> May be harmful if inhaled. May cause respiratory tract irritation.</p> <p><b>Ingestion</b> Harmful if swallowed.</p> <p><b>Skin</b> May be harmful if absorbed through skin. May cause skin irritation</p> <p><b>Eyes</b> May cause eye irritation.</p>

## SECTION 12: ECOLOGICAL INFORMATION

<b>TOXICITY</b>	<p>EC50: 48 Hr: Crustacea: Daphnia: (mg/L): &lt;1*</p> <p>LC50: 96 Hr: Fish: (mg/L): &lt;1*</p> <p>IC50: 72 Hr: Algae: (mg/L): Not available</p>
<b>PERSISTENCE AND DEGRADABILITY</b>	Suspected persistent in the environment: The Danish QSAR database contains information indicating that the substance is predicted as non readily biodegradable.
<b>BIOACCUMULATIVE POTENTIAL</b>	LogPow: 3.32 (20°C)
<b>MOBILITY IN SOIL</b>	<p>Water Solubility: 73 mg/L (30°C)</p> <p>Henry's Law Constant: 5.36E-2 atm-m<sup>3</sup>/mol (25°C)</p>
<b>OTHER ADVERSE EFFECTS</b>	Not available
<b>NOTES</b>	<p>This product is not intended to be released into the environment</p> <p>*Danish QSAR database</p>

**SECTION 13: DISPOSAL CONSIDERATIONS**
**WASTE DISPOSAL**

Dispose of in accordance with federal / local laws and regulations. Avoid release into the environment.

**SECTION 14: TRANSPORT INFORMATION**
**UNITED STATES & CANADA**
**UN PROPER SHIPPING NAME**

Not dangerous good

**UN NUMBER**

Not applicable

**CLASS**

Not applicable

**PACKING GROUP**

Not applicable

**AUSTRALIA**
**UN PROPER SHIPPING NAME**

Not dangerous good

**UN NUMBER**

Not applicable

**CLASS**

Not applicable

**PACKING GROUP**

Not applicable

**HAZCHEM**

Not Applicable

**ENVIRONMENTAL HAZARDS**

Not available

**SPECIAL SHIPPING INFORMATION**

Not applicable

**SECTION 15: REGULATORY INFORMATION**

Chemical Name & CAS	CERCLA 40 CFR Part 302.4	SARA (Title III) 40 CFR Part 372.65	EPA 40 CFR Part 355		Pennsylvania	Right-to-know		California Prop 65
			Appendix A	Appendix B		New Jersey	Massachusetts	
RESERPINE, 50-55-5	X	N/L	N/L	N/L	X	N/L	X	X

N/L = Not Listed; X = Listed

**AUSTRALIAN REGULATIONS**

Chemical Name & CAS	Poisons and Therapeutic Goods Regulation	Therapeutic Goods Act	Code of Practices - Illicit Drug Precursors
RESERPINE, 50-55-5	N/L	Listed as Schedule 4	N/L

**SECTION 16: OTHER INFORMATION**
**REFERENCES**

Available upon request

**ABBREVIATIONS AND ACRONYMS**

**CAS** – Chemical Abstract Service; **GHS** – Global Harmonized System; **OSHA PEL** – Occupational Safety & Health Administration Permissible Exposure Limits; **TWA** – Time Weighted Average; **HSIS** – Hazardous Substances Information System; **STEL** – Short Term Exposure Limit; **AIHA WEEL** – American Industrial Hygiene Association Workplace Environment Exposure Levels; **LD50** – Lethal Dose, 50%; **IARC** – International Agency for Research on Cancer; **NTP** – National Toxicology Program; **WHMIS** – Workplace Hazardous Materials Information System; **SARA** – Superfund Amendments and Reauthorization Act; **EPA** – Environmental Protection Agency; **CERCLA** – Comprehensive Environmental Response, Compensation, and Liability Act; **HMIS** – Hazardous Materials Information System; **NIOSH** – National Institute for Occupational Safety and Health; **MSHA** - Mine Safety and Health Administration; **ACGIH** - American Conference of Governmental Industrial Hygienists; **IDHL** - Immediately Dangerous to Health or Life; **TLV** – Threshold Limit Value; **HSE** – Health and Safety Executive; **REL** - Recommended Exposure Limit

**LAST REVISION**

07/2017

**SUPERSEDES**

07/2014

**DISCLAIMER**

This document was created in accordance with OSHA, Safe Work Australia and WHMIS regulations. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. MEDISCA® shall not be held liable for any damage resulting from handling or from contact with the above product. Recipients of the product must take responsibility for observing existing laws and regulations.