SDS: Yobine® Injection  
(yohimbine sterile solution)  
SAFETY DATA SHEET  

1. **Identification**  

**Product Identifier:** Yobine® Injection (yohimbine sterile solution)  

**Synonyms:** 17-alpha-Hydroxy-20-alpha-yohimban-16-beta-carboxylic acid, methyl ester, hydrochloride  

**National Drug Code (NDC):** 59399-115-20  

**Recommended Use:** For use in Dogs Only  

**Company:** Akorn, Inc.  
1925 West Field Court, Suite 300  
Lake Forest, Illinois 60045  

**Contact Telephone:** 1-800-932-5676  

**E-mail:** customer.service@akorn.com  

**Emergency Phone Number:** CHEMTREC 1-800-424-9300 (U.S. and Canada)  

2. **Hazard(s) Identification**  

**Physical Hazards:** Not classifiable.  

**Health Hazards:** Not classifiable.  

**Symbol(s):** None.  

**Signal Word:** None.  

**Hazard Statement(s):** None.  

**Precautionary Statement(s):** None.  

**Hazards Not Otherwise Classified:** Not classifiable.  

**Supplementary Information:** While this material is not classifiable as hazardous under the OSHA standard, this SDS contains valuable information critical to safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.  

3. **Composition/Information on Ingredients**  

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
<th>Synonyms</th>
<th>Chemical Formula</th>
<th>Molecular Weight</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yohimbine HCl</td>
<td>65-19-0</td>
<td>17-alpha-Hydroxy-20-alpha-yohimban-16-beta-</td>
<td>C_{21}H_{26}N_{2}O_{3}•HCl</td>
<td>390.89</td>
<td>0.2%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>carboxylic acid, methyl ester, hydrochloride</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*The formula also contains Methylparaben, 0.9 mg; Propylparaben, 0.1 mg; Citric Acid 3.34 mg; and Water for Injection, pH adjusted with sodium hydroxide.*
4. First Aid Measures

Ingestion: If a person vomits place them in the recovery position so that vomit will not reenter the mouth and throat. Rinse mouth with water. If swallowed, seek medical advice immediately and show the container or label. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

Eye Contact: Remove from source of exposure. Flush with copious amounts of water for at least 15 minutes. If irritation persists or signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary. Ensure that medical personnel are aware of the material(s) involved and are aware of precautions to protect themselves.

Skin Contact: Remove from source of exposure. Remove and isolate contaminated clothing and shoes. Flush with copious amounts of water for at least 20 minutes. Use soap. If irritation persists or signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary. Ensure that medical personnel are aware of the material(s) involved and are aware of precautions to protect themselves.

Inhalation: Remove from source of exposure. Move individual(s) to fresh air. Give artificial respiration if individual(s) are not breathing and call emergency medical service. If signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary. Ensure that medical personnel are aware of the material(s) involved and are aware of precautions to protect themselves.

Protection of First-Aiders: Use personal protective equipment (see section 8).

WARNING: Not for human use. This drug should not be administered to food-producing animals.

Signs and Symptoms: A person that has been exposed to and absorbed this product may experience dizziness, headache, irritability, nervousness or restlessness, nausea or vomiting, skin flushing, sweating and tremors.

Side Effects in Dogs: Occasionally a dog that has been reversed will show signs of apprehensiveness but this state quickly subsides.

Medical Conditions Aggravated by Exposure: Not determined.

Notes to Physician: Treat supportively and symptomatically.
5. **Firefighting Measures**

Suitable Extinguishing Media: As with any fire, use extinguishing media appropriate for primary cause of fire such as carbon dioxide, dry chemical extinguishing powder or foam.

Unsuitable Extinguishing Media: Not determined.

**Specific Hazards Arising from the Chemical:**

Hazardous Combustion Products: Not determined.

Other Specific Hazards: Closed containers may explode from the heat of fire.

Special Protective Equipment/Precautions for Firefighters: Wear self-contained breathing apparatus and full and protective gear.

6. **Accidental Release Measures**

Personal Precautions: Use personal protective equipment recommended in Section 8 of this document and isolate the hazard area.

Personal Protective Equipment: For personal protection see section 8.

Methods for Cleaning Up: Isolate area around spill. Put on suitable protective clothing and equipment as specified by site spill control procedures. Absorb the liquid with suitable material and clean affected area with soap and water.

Environmental Precautions: Contain material and prevent release to basements, confined spaces, waterways or soil.

Reference to Other Sections: Refer to Sections 8, 12 and 13 for further information.

7. **Handling and Storage**

Precautions for Safe Handling: Handle in accordance with product label and/or product insert information. Handle in accordance with good industrial hygiene and safety practices.

Conditions for Safe Storage, Including Any Incompatibilities: Store according to label and/or product insert information. Store away from oxidizers, acids, and bases.

Specific End Use: Pharmaceuticals.

8. **Exposure Controls/Personal Protection**

**Occupational Exposure Guidelines:**

<table>
<thead>
<tr>
<th>Common or Chemical Name</th>
<th>Employee Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yohimbine Hydrochloride</td>
<td>No data available.</td>
</tr>
</tbody>
</table>

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Engineering Controls: Engineering controls are normally not needed during the normal use of this product.

Respiratory Protection: Where respirators are deemed necessary to reduce or control occupational exposures, use NIOSH-approved respiratory protection and have an effective respirator program in place (applicable U.S. regulation OSHA 29 CFR 1910.134).

Eyes Protection: Not required for the normal use of this product. Safety glasses with side shields are recommended. Face shields or goggles may be required if splash potential exists or if corrosive materials are present. Approved eye protection (e.g., bearing the ANSI Z87 or CSA stamp) is preferred. Maintain eyewash facilities in the work area.

Hand Protection: Not required for the normal use of this product. Chemically compatible gloves are recommended. For handling solutions, ensure that the glove material is protective against the solvent being used. Use handling practices that minimize direct hand contact. Employees who are sensitive to natural rubber (latex) should use nitrile or other synthetic non-latex gloves. Use of powdered latex gloves should be avoided due to the risk of latex allergy.

Skin Protection: Not required for the normal use of this product. Wear protective laboratory coat, apron, or disposable garment when working with large quantities.

9. Physical and Chemical Properties

Physical State/Color: Clear colorless liquid.
Odor: None.
Odor Threshold: No data available.
\( \text{pH} \): 4.0.
Melting Point: No data available.
Freezing Point: No data available.
Boiling Point: No data available.
Flash Point: No data available.
Evaporation Rate: No data available.
Flammability (solid, gas): No data available.
Flammability Limit - Lower: No data available.
Flammability Limit - Upper: No data available.
Vapor Pressure: No data available.
Vapor Density: No data available.
Relative Density: No data available.
Solubility(ies): No data available.
Partition Coefficient (n-octanol/water): No data available.
Auto-Ignition Temperature: No data available.
Decomposition Temperature: No data available.
Viscosity: No data available.
10. Stability and Reactivity

Reactivity: No data available.

Chemical Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: No data available.

Conditions to Avoid (e.g., static discharge, shock, or vibration): No data available.

Incompatible Materials: Oxidizers, acids, bases.

11. Toxicological Information

Information on the Likely Routes of Exposure:

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion: May be harmful if swallowed.

Skin Contact: May be harmful if absorbed through the skin. May cause irritation.

Eye Contact: May cause eye irritation.

Symptoms Related to the Physical, Chemical and Toxicological Characteristics: See Section 4. To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

Delayed and Immediate Effects of Exposure: No data available.

Acute Toxicity:

<table>
<thead>
<tr>
<th>Compound</th>
<th>Species</th>
<th>Route</th>
<th>Test Type</th>
<th>Dose</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yohimbine Hydrochloride</td>
<td>Mouse</td>
<td>Oral</td>
<td>LD₅₀</td>
<td>40 mg/kg</td>
</tr>
</tbody>
</table>

LD₅₀: Dosage that produces 50% mortality.

Acute Toxicity – Dermal: No data available.
Acute Toxicity – Inhalation: No data available.
Corrosivity: No data available.
Dermal Irritation: No data available.
Eye Irritation: No data available.
Sensitization: No data available.
Toxicokinetics/Metabolism: No data available.
Specific Target Effects: No data available.
Reproductive Effects: No data available.
Carcinogenicity: No data available.
National Toxicology Program (NTP): Not considered to be a carcinogen.
International Agency for Research on Cancer (IARC): Not considered to be a carcinogen.
Occupational Safety and Health Administration (OSHA): Not considered to be a carcinogen.
Mutagenicity: No data available.
Aspiration Hazard: No data available.

12. Ecological Information

Ecotoxicity

Aquatic: No data available.
Terrestrial: No data available.
Persistence and Degradability: No data available.
Bioaccumulative Potential: No data available.
Mobility in Soil: No data available.
Mobility in Environment: No data available.
Other Adverse Effects: No data available.

13. Disposal Considerations

Dispose of all waste in accordance with Federal, State and Local regulations.

14. Transport Information

UN Number: UN1544.
UN Proper Shipping Name: Alkaloid salts, solid, n.o.s. (Yohimbine Hydrochloride)
Packing Group: II.
Department of Transportation: Not regulated as a hazardous material.
International Air Transport Association (IATA): Not regulated as a dangerous good.
International Maritime Dangerous Good (IMDG): Not regulated as a dangerous good.
15. **Regulatory Information**

**US Federal Regulations:**

Toxic Substance Control Act (TSCA): Listed. (Yohimbine Hydrochloride)

CERCLA Hazardous Substance and Reportable Quantity: Not applicable.

SARA 313: Not listed.
SARA 302: Not listed.

**State Regulations**

Massachusetts: Not listed.
New Jersey: Not listed.
Pennsylvania: Not listed.
California Proposition 65: Not listed.

16. **Other Information**

Revision Date: 07/23/2015

Revision Number: 0

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