

SAFETY DATA SHEET

1. SUBSTANCE AND SOURCE IDENTIFICATION

Product Identifier

SRM Number: 3383

SRM Name: Yohimbe-Containing Solid Oral Dosage Form

Other Means of Identification: Not applicable.

Recommended Use of This Material and Restrictions of Use

This Standard Reference Material (SRM) is intended for validating methods for determining yohimbine and rauhimbine in yohimbe-containing solid oral dosage powder and similar materials for quality assurance when assigning values to in-house control materials. A unit of SRM 3383 consists of 5 packets, each containing approximately 1.1 g of material.

Company Information

National Institute of Standards and Technology Standard Reference Materials Program 100 Bureau Drive, Stop 2300 Gaithersburg, Maryland 20899-2300

Telephone: 301-975-2200 Emergency Telephone ChemTrec: E-mail: SRMMSDS@nist.gov 1-800-424-9300 (North America) Website: https://www.nist.gov/srm +1-703-527-3887 (International)

2. HAZARDS IDENTIFICATION

Classification

Physical Hazard: Not applicable **Health Hazard:** Not applicable

Label Elements

Symbol

No Symbol

Signal Word

No Signal Word

Hazard Statement(s): Not applicable.

Precautionary Statement(s): Not applicable.

Hazards Not Otherwise Classified: Not applicable.

Ingredients(s) with Unknown Acute Toxicity: Not applicable.

3. COMPOSITION AND INFORMATION ON HAZARDOUS INGREDIENTS

Substance: Yohimbe-Containing Solid Oral Dosage Form

Other Designations: None

This SRM contains trace amounts of yohimbine. Components are listed in compliance with OSHA's

29 CFR 1910.1200.

Non-Hazardous Component(s)			CAS Number	EC Number (EINECS)	Nominal Mass Concentration (%)
Yohimbe-Containing Dosage	Solid	Oral	N/A	N/A	100

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4. FIRST AID MEASURES

Description of First Aid Measures

Inhalation: If adverse effects occur, remove to well-ventilated (uncontaminated) area. If breathing is difficult, qualified personnel may administer oxygen. If not breathing, qualified personnel should give artificial respiration. Seek immediate medical attention.

Skin Contact: Rinse affected skin with water for at least 15 minutes, then wash thoroughly with soap or mild detergent and water. If skin irritation persists, seek medical aid and bring the container or label.

Eye Contact: Immediately flush eyes, including under the eyelids, with copious amounts of water for at least 15 minutes. Seek immediate medical attention.

Ingestion: If ingested, seek medical attention.

Most Important Symptoms/Effects, Acute and Delayed: None listed

Indication of any immediate medical attention and special treatment needed, if necessary: If any of the above symptoms are present, seek immediate medical attention.

5. FIRE FIGHTING MEASURES

Fire and Explosion Hazards: Severe fire hazard. Vapor/air mixtures are explosive above the flash point. Vapors or gases may ignite at distant ignition sources and flash back. See Section 9, "Physical and Chemical Properties" for flammability properties.

Extinguishing Media

Suitable: Regular dry chemical, carbon dioxide, water, or alcohol-resistant foam.

Unsuitable: None listed.

Specific Hazards Arising from the Chemical: Not applicable.

Special Protective Equipment and Precautions for Fire-Fighters: Move container from fire area if it can be done without personal risk. Avoid inhalation of material or combustion by-products. Wear full protective clothing and NIOSH-approved self-contained breathing apparatus (SCBA).

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures: Use suitable protective equipment; see Section 8, "Exposure Controls and Personal Protection".

Methods and Materials for Containment and Clean up: Avoid generating and accumulating dust. Collect in appropriate container for disposal.

7. HANDLING AND STORAGE

Safe Handling Precautions: See Section 8, "Exposure Controls and Personal Protection".

Storage and Incompatible Materials: Store in a well-ventilated area. Keep separated from incompatible substances (see Section 10, "Stability and Reactivity").

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits: This material is a particulate matter and adequate inhalation/respiratory protection should be used to minimize exposure. No occupational exposure limits have been established for yohimbine. The exposure limits for Particulates Not Otherwise Regulated are applicable.

OSHA (PEL): 15 mg/m³ (TWA, total particulates not otherwise regulated)

5 mg/m³ (TWA, respirable particulates not otherwise regulated)

Engineering Controls: Provide local exhaust or process enclosure ventilation system. Ensure compliance with applicable exposure limits.

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Personal Protection Measures: In accordance with OSHA 29 CFR 1910.132, subpart I, wear appropriate Personal Protective Equipment (PPE) to minimize exposure to this material.

Respiratory Protection: If workplace conditions warrant a respirator, a respiratory protection program that meets OSHA 29CFR 1910.134 must be followed. Refer to NIOSH 42 CFR 84 for applicable certified respirators.

Eye Protection: Splash resistant safety goggles and emergency eyewash are recommended.

Skin and Body Protection: Chemical resistant clothing and gloves are recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

irritation, headache, nausea, vomiting, and dizziness.

Appearance	powder			
(physical state, color, etc.):	1			
Molecular Formula:	not applicable			
Molar Mass (g/mol):	not applicable			
Odor:	not available			
Odor threshold:	not available			
pH:	not available			
Evaporation rate:	not applicable			
Melting point/freezing point (°C):	not available			
Relative Density (g/L):	not available			
Vapor Pressure (mmHg):	not applicable			
Vapor Density (air = 1):	not applicable			
Viscosity (cP):	not applicable			
Solubility(ies):	not available			
Partition coefficient (n-octanol/water):	not available			
Particle Size:	not available			
Thermal Stability Properties				
Autoignition Temperature (°C):	not available			
Thermal Decomposition (°C):	not available			
Initial boiling point and boiling range (°C):	not available			
Explosive Limits, LEL (Volume %):	not available			
Explosive Limits, UEL (Volume %):	not available			
Flash Point (°C):	not available			
Flammability (solid, gas):	not available			

10. STABILITY AND REACTIVITY Reactivity: Stable at normal temperatures and pressure. X Stable Unstable **Stability:** Possible Hazardous Reactions: Not applicable. Conditions to Avoid: Avoid generating dust. **Incompatible Materials:** None listed. Hazardous Decomposition: None listed. X Will Not Occur **Hazardous Polymerization:** Will Occur 11. TOXICOLOGICAL INFORMATION X Skin X Ingestion **Route of Exposure:** X Inhalation Symptoms Related to the Physical, Chemical and Toxicological Characteristics: Eye or skin mechanical

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Potential Health Effects (Acute, Chronic, and Delayed)

Inhalation: May cause irritation.Skin Contact: May cause irritation.Eve Contact: May cause irritation.

Ingestion: Adverse effects at recommended therapeutic dosages are not listed, but cannot be ruled out. The possible effects of ingesting large quantities of herbal dietary supplements have not been fully investigated.

Numerical Measures of Toxicity

Acute Toxicity: Not classified; no data available.

Skin Corrosion/Irritation: Not classified; no data available.

Serious Eye Damage/Eye Irritation: Not classified; no data available.

Respiratory Sensitization: Not classified; no data available.

Skin Sensitization: No data available.

Germ Cell Mutagenicity: No data available.

Carcinogenicity: Not classified.

Listed as a Carcinogen/Potential CarcinogenYes X

Yohimbine is not listed by IARC, NTP, or OSHA as a carcinogen/potential carcinogen.

Reproductive Toxicity: No data available.

Specific Target Organ Toxicity, Single Exposure: No data available Specific Target Organ Toxicity, Repeated Exposure: No data available.

Aspiration Hazard: Not applicable.

12. ECOLOGICAL INFORMATION

Ecotoxicity Data: No data available

Persistence and Degradability: No data available. **Bioaccumulative Potential:** No data available.

Mobility in Soil: No data available.

Other Adverse effects: No data available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose in accordance with all applicable federal, state, and local regulations.

14. Transportation Information

U.S. DOT and IATA: Not regulated by DOT or IATA.

15. REGULATORY INFORMATION

U.S. Regulations

CERCLA Sections 102a/103 (40 CFR 302.4): Not regulated.

SARA Title III Section 302 (40 CFR 355.30): Not regulated.

SARA Title III Section 304 (40 CFR 355.40): Not regulated.

SARA Title III Section 313 (40 CFR 372.65): Nor regulated.

OSHA Process Safety (29 CFR 1910.119): Not regulated.

SARA Title III Sections 311/312 Hazardous Categories (40 CFR 370.21):

ACUTE HEALTH: No CHRONIC HEALTH: No FIRE: No REACTIVE: No PRESSURE: No

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State Regulations: Not listed.

U.S. TSCA Inventory: Not listed.

TSCA 12(b), Export Notification: Not listed.

Canadian Regulations: WHMIS Information: Not provided for this material.

16. OTHER INFORMATION

Issue Date: 26 February 2024

Sources: CDC; NIOSH; NIOSH Pocket Guide to Chemical Hazards; Department of Health and Human

Services (DHHS), Centers for Disease Control and Prevention (CDC), National Institute for Safety and Health; *Particulates not otherwise regulated*, 30 October 2019; available at

https://www.cdc.gov/niosh/npg/npgd0480.html (accessed Feb 2024).

U.S. National Library of Medicine; PubChem Database; Yohimbine, CAS No. 146-48-5; available at

https://pubchem.ncbi.nlm.nih.gov/compound/Yohimbine (accessed Feb 2024).

Key of Acronyms:

ACGIH	American Conference of Governmental Industrial	NTP	National Toxicology Program
	Hygienists		
CAS	Chemical Abstracts Service	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation,	PEL	Permissible Exposure Limit
	and Liability Act		
CFR	Code of Federal Regulations	RCRA	Resource Conservation and Recovery Act
DOT	Department of Transportation	REL	Recommended Exposure Limit
EINECS	European Inventory of Existing Commercial Chemical	RQ	Reportable Quantity
	Substances		
EPCRA	Emergency Planning and Community Right-to-Know Act	RTECS	Registry of Toxic Effects of Chemical Substances
IARC	International Agency for Research on Cancer	SARA	Superfund Amendments and Reauthorization Act
IATA	International Air Transport Association	SCBA	Self-Contained Breathing Apparatus
IDLH	Immediately Dangerous to Life and Health	SRM	Standard Reference Material
LC50	Lethal Concentration	STEL	Short Term Exposure Limit
LD50	Median Lethal Dose or Lethal Dose, 50 %	STOT	Specific Target Organ Toxicity
LEL	Lower Explosive Limit	TLV	Threshold Limit Value
MSDS	Material Safety Data Sheet	TPQ	Threshold Planning Quantity
NIOSH	National Institute for Occupational Safety and Health	TSCA	Toxic Substances Control Act
NIST	National Institute of Standards and Technology	TWA	Time Weighted Average
n.o.s.	Not Otherwise Specified	UEL	Upper Explosive Limit
		WHMIS	Workplace Hazardous Materials Information System

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