

SAFETY DATA SHEET

1. Identification

Product identifier Rauwolfia Serpentina

Other means of identification

Catalog number 1599000

Recommended use Specified quality tests and assay use only.

Recommended restrictions Not for use as a drug. Not for administration to humans or animals.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name U. S. Pharmacopeia
Address 12601 Twinbrook Parkway

Rockville MD 20852-17

20852-1790 United States

Telephone RS Technical Services 301-816-8129

Website www.usp.org
E-mail RSTECH@usp.org

Emergency phone number CHEMTREC within US & 1-800-424-9300

Canada

CHEMTREC outside US & +1 703-527-3887

Canada

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Specific target organ toxicity, single exposure Category 2 (nervous system, cardiovascular

system)

Environmental hazards Not classified.

OSHA defined hazards Not classified.

Label elements



Signal word Warning

Hazard statement May cause damage to organs (nervous system, cardiovascular system).

Precautionary statement

Prevention Wash thoroughly after handling.

Response If exposed or concerned: Call a poison center/doctor.

Storage Store locked up.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

Not classified.

Other hazards which do not

result in classification

None known.

3. Composition/information on ingredients

Substance

Chemical name	Common name and synonyms	CAS number	%
Rauwolfia Serpentina		8063-17-0	100

4. First-aid measures

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Inhalation If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.

Call a physician if symptoms develop or persist.

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Skin contact Rinse skin with water/shower. Get medical attention if irritation develops and persists.

Eye contact Rinse with water. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.

Most important

symptoms/effects, acute and

delayed

Table model. It ingotion of a large amount does cool, can a poloc

Cardiovascular effects. Nervous system effects.

Indication of immediate medical attention and special treatment needed

Treatment of overdose should be symptomatic and supportive and may include the following: Immediate evacuation of the stomach by gastric lavage, followed by instillation of an activated charcoal slurry. If treatment with a vasopressor is necessary, one with a direct action on smooth muscle (phenylephrine, norepinephrine, metaraminol) should be used. The patient should be observed for at least 72 hours. [USP DI 2004]

General information

Remove from exposure. Remove contaminated clothing. For treatment advice, seek guidance from an occupational health physician or other licensed health-care provider familiar with workplace chemical exposures. In the United States, the national poison control center phone number is 1-800-222-1222. If person is not breathing, give artificial respiration. If breathing is difficult, give oxygen if available. Persons developing serious hypersensitivity (anaphylactic) reactions must receive immediate medical attention.

5. Fire-fighting measures

Suitable extinguishing media

Use fire-extinguishing media appropriate for surrounding materials. Water. Foam. Dry chemical or

CO2.

Unsuitable extinguishing

media

None known.

Specific hazards arising from

the chemical

No unusual fire or explosion hazards noted.

Special protective equipment and precautions for firefighters

Wear suitable protective equipment.

Fire-fighting equipment/instructions

Use water spray to cool unopened containers. As with all fires, evacuate personnel to a safe area.

Firefighters should use self-contained breathing equipment and protective clothing.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Avoid inhalation of dust from the spilled material. Wear appropriate personal protective equipment.

Methods and materials for containment and cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid the generation of dusts during clean-up. For waste disposal, see section 13 of the SDS. Clean surface thoroughly to remove residual contamination.

7. Handling and storage

Precautions for safe handling

As a general rule, when handling USP Reference Standards, avoid all contact and inhalation of dust, mists, and/or vapors associated with the material. Clean equipment and work surfaces with suitable detergent or solvent after use. After removing gloves, wash hands and other exposed skin thoroughly.

Conditions for safe storage, including any incompatibilities

Store in tight container as defined in the USP-NF. This material should be handled and stored per label instructions to ensure product integrity.

8. Exposure controls/personal protection

Biological limit values

No biological exposure limits noted for the ingredient(s).

Exposure guidelines

No exposure standards allocated.

Appropriate engineering controls

Airborne exposure should be controlled primarily by engineering controls such as general dilution ventilation, local exhaust ventilation, or process enclosure. Local exhaust ventilation is generally preferred to general exhaust because it can control the contaminant at its source, preventing dispersion into the work area. An industrial hygiene survey involving air monitoring may be used to determine the effectiveness of engineering controls. Effectiveness of engineering controls intended for use with highly potent materials should be assessed by use of nontoxic surrogate materials. Local exhaust ventilation such as a laboratory fume hood or other vented enclosure is

Individual protection measures, such as personal protective equipment

Eye/face protection

Safety glasses with sideshields 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.

recommended, particularly for grinding, crushing, weighing, or other dust-generating procedures.

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Skin protection

Hand protection Chemically compatible gloves. 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 nonlatex

gloves. Use of powdered latex gloves should be avoided due to the risk of latex allergy.

Other For handling of laboratory scale quantities, a cloth lab coat is recommended. Where significant

quantities are handled, work clothing may be necessary to prevent take-home contamination.

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).

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Appearance Tan to light-brown powder.

Physical state Solid.
Form Powder.

Odor Slight aromatic odor.

Odor thresholdNot available.pHNot available.Melting point/freezing pointNot available.Initial boiling point and boilingNot available.

range

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available. Not available. Vapor pressure Vapor density Not available. Not available Relative density Solubility in water Slightly soluble. **Auto-ignition temperature** Not available **Decomposition temperature** Not available. **Viscosity** Not available.

Other information

Chemical family Alkaloid mixture.

10. Stability and reactivity

Reactivity Not available.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid None known.

Incompatible materials Oxidizing agents.

Hazardous decomposition

products

Irritating and/or toxic fumes or gases. Emits toxic fumes under fire conditions.

11. Toxicological information

Information on likely routes of exposure

IngestionDue to lack of data the classification is not possible.InhalationDue to lack of data the classification is not possible.Skin contactDue to lack of data the classification is not possible.

Due to lack of data the classification is not possible. Eye contact

Symptoms related to the physical, chemical, and toxicological characteristics

Dizziness. Confusion. Drowsiness. Headache. Weakness. Mental depression. Nervousness. Loss of appetite. Nausea. Vomiting. Diarrhea. Dry mouth. Cramps. Stuffy nose. Swelling of feet or lower legs. Slow heartbeat. Irregular heartbeat. Chest pain. Shortness of breath. Black or bloody stools. Blood in vomit. Decreased sexual ability. Abnormal thoughts or dreams. Nightmares.

Persons sensitive to other rauwolfia alkaloids may be sensitive to this material also. **Cross sensitivity**

Medical conditions aggravated

by exposure

Mental depression. Gallstones. Peptic ulcer. Ulcerative colitis.

Acute toxicity Due to lack of data the classification is not possible. Skin corrosion/irritation Due to lack of data the classification is not possible. Serious eye damage/eye Due to lack of data the classification is not possible.

irritation

Respiratory or skin sensitization

Respiratory sensitization Due to lack of data the classification is not possible. Due to lack of data the classification is not possible. Skin sensitization Due to lack of data the classification is not possible. Germ cell mutagenicity

Carcinogenicity

Due to lack of data the classification is not possible. This material is not considered to be a carcinogen by IARC, NTP, or OSHA. The suggestion that long-term use of rauwolfia alkaloids may increase the risk of breast cancer in postmenopausal women has been controversial. Studies in rats and mice given 100 to 300 times the usual human dose found an increased incidence of mammary fibroadenomas in females, and malignant tumors of the seminal vesicles and adrenal medullas in males. [USP DI 2004]

Reproductive toxicity

Due to lack of data the classification is not possible. Rauwolfia alkaloids administered to pregnant women prior to delivery may cause adverse effects in the infants, including respiratory distress, lethargy, cyanosis, and anorexia.

Specific target organ toxicity single exposure

May cause damage to organs (nervous system, cardiovascular system).

Specific target organ toxicity -

Aspiration hazard

Due to lack of data the classification is not possible.

repeated exposure

Based on available data, the classification criteria are not met.

12. Ecological information

Ecotoxicity No ecotoxicity data noted for the ingredient(s).

No data is available on the degradability of this product. Persistence and degradability

Not available. Bioaccumulative potential Mobility in soil Not available. Other adverse effects Not available.

13. Disposal considerations

Disposal instructions Dispose in accordance with all applicable regulations. Under RCRA, it is the responsibility of the

user of the product to determine, at the time of disposal, whether the product meets RCRA criteria

for hazardous waste.

Not available. Local disposal regulations Hazardous waste code Not regulated.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

14. Transport information

DOT

UN number UN1544

UN proper shipping name Alkaloids, solid, n.o.s. (Rauwolfia Serpentina)

Transport hazard class(es)

Class 6.1 Subsidiary risk Ш Packing group

IATA

UN1544 UN number

UN proper shipping name Alkaloids, solid, n.o.s. (Rauwolfia Serpentina)

Material name: Rauwolfia Serpentina

Transport hazard class(es)

Class 6.1
Subsidiary risk Packing group III
Other information

Passenger and cargo

aircraft

Allowed.

Cargo aircraft only Allowed.

Transport in bulk according to Not available.

Annex II of MARPOL 73/78 and

the IBC Code

Not availai





15. Regulatory information

US federal regulations CERCLA/SARA Hazardous Substances - Not applicable.

One or more components are not listed on TSCA.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

Yes

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Safe Drinking Water Act

(SDWA)

Not regulated.

Food and Drug Administration (FDA) Not regulated.

US state regulations

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

US. California Proposition 65

Not Listed.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No

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Country(s) or region Inventory name On inventory (yes/no)*

Philippines Philippine Inventory of Chemicals and Chemical Substances

(PICCS)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

No

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date 01-20-2004 **Revision date** 09-15-2015

Version #

Further information Not available.

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Revision Information Physical & Chemical Properties: Multiple Properties

Transport Information: Material Transportation Information

GHS: Classification

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