



# SAFETY DATA SHEET

## 1. Identification

|                                                               |                                                                                 |                 |  |
|---------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------|--|
| <b>Product identifier</b>                                     | <b>Powdered Bacopa Extract</b>                                                  |                 |  |
| <b>Other means of identification</b>                          |                                                                                 |                 |  |
| <b>Catalog number</b>                                         | 1048244                                                                         |                 |  |
| <b>Synonyms</b>                                               | Bacopa monnieri (L.) * Pennell extract * Thyme-leaved gratiola * Brahmi extract |                 |  |
| <b>Recommended use</b>                                        | For analytical laboratory use only.                                             |                 |  |
| <b>Recommended restrictions</b>                               | Not for use as a drug. Not for administration to humans or animals.             |                 |  |
| <b>Manufacturer/Importer/Supplier/Distributor information</b> |                                                                                 |                 |  |
| <b>Manufacturer</b>                                           |                                                                                 |                 |  |
| <b>Company name</b>                                           | U. S. Pharmacopeia                                                              |                 |  |
| <b>Address</b>                                                | 12601 Twinbrook Parkway<br>Rockville<br>MD<br>20852-1790<br>United States       |                 |  |
| <b>Telephone</b>                                              | Customer Service                                                                | 301-881-0666    |  |
| <b>Website</b>                                                | www.usp.org                                                                     |                 |  |
| <b>E-mail</b>                                                 | RSTECH@usp.org                                                                  |                 |  |
| <b>Emergency phone number</b>                                 | CHEMTREC within US & Canada                                                     | 1-800-424-9300  |  |
|                                                               | CHEMTREC outside US & Canada                                                    | +1 703-527-3887 |  |

## 2. Hazard(s) identification

|                                                  |                                                                                         |
|--------------------------------------------------|-----------------------------------------------------------------------------------------|
| <b>Physical hazards</b>                          | Not classified.                                                                         |
| <b>Health hazards</b>                            | Not classified.                                                                         |
| <b>Environmental hazards</b>                     | Not classified.                                                                         |
| <b>OSHA defined hazards</b>                      | Not classified.                                                                         |
| <b>Label elements</b>                            |                                                                                         |
| <b>Hazard symbol</b>                             | None.                                                                                   |
| <b>Signal word</b>                               | None.                                                                                   |
| <b>Hazard statement</b>                          | Not available.                                                                          |
| <b>Precautionary statement</b>                   |                                                                                         |
| <b>Prevention</b>                                | Not available.                                                                          |
| <b>Response</b>                                  | Not available.                                                                          |
| <b>Storage</b>                                   | Not available.                                                                          |
| <b>Disposal</b>                                  | Not available.                                                                          |
| <b>Hazard(s) not otherwise classified (HNOC)</b> | None known.                                                                             |
| <b>Supplemental information</b>                  | Botanical material or related compound. Pharmacological actions or potency are unknown. |

## 3. Composition/information on ingredients

| <b>Substance</b>        |                                                                                    |                   |          |
|-------------------------|------------------------------------------------------------------------------------|-------------------|----------|
| <b>Chemical name</b>    | <b>Common name and synonyms</b>                                                    | <b>CAS number</b> | <b>%</b> |
| Powdered Bacopa Extract | Bacopa monnieri (L.)<br>Pennell extract<br>Thyme-leaved gratiola<br>Brahmi extract | No Data           | 100      |

Information provided in the SDS is not specific to the lot provided. Refer to the label and USP Certificate/Product Information Sheet for the assigned value of a particular lot.

## 4. First-aid measures

|                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Inhalation                                                             | Move to fresh air. Call a physician if symptoms develop or persist.                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Skin contact                                                           | Wash off with soap and water. Get medical attention if irritation develops and persists.                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Eye contact                                                            | Rinse with water. Get medical attention if irritation develops and persists.                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Ingestion                                                              | Rinse mouth. Get medical attention if symptoms occur.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Most important symptoms/effects, acute and delayed                     | Not available.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Indication of immediate medical attention and special treatment needed | Treat symptomatically.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 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                                  | Water. Foam. Dry chemical or CO2. Use fire-extinguishing media appropriate for surrounding materials.                                                                                  |
| 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.                                                                                             |
| General fire hazards                                          | No unusual fire or explosion hazards noted.                                                                                                                                            |

## 6. Accidental release measures

|                                                                     |                                                                                                                                                                                                                                                                                                                          |
|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal precautions, protective equipment and emergency procedures | Keep unnecessary personnel away. Wear appropriate personal protective equipment. Avoid inhalation of dust from the spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. For personal protection, see section 8 of the SDS. |
| Methods and materials for containment and cleaning up               | Avoid the generation of dusts during clean-up. Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.                                                                                  |
| Environmental precautions                                           | Avoid discharge into drains, water courses or onto the ground.                                                                                                                                                                                                                                                           |

## 7. Handling and storage

|                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Precautions for safe handling                                | As a general rule, when handling USP materials, 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. Select and use containment devices and personal protective equipment based on a risk assessment of material potency and exposure potential. |
| Conditions for safe storage, including any incompatibilities | Store in tight container. This material should be handled and stored per label instructions to ensure product integrity.                                                                                                                                                                                                                                                                                                                      |

## 8. Exposure controls/personal protection

|                                  |                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Occupational exposure limits     | No exposure limits noted for ingredient(s).                                                                                                                                                                                                                                                                                                       |
| Biological limit values          | No biological exposure limits noted for the ingredient(s).                                                                                                                                                                                                                                                                                        |
| Appropriate engineering controls | For laboratory operations, use good technique and limit open handling. Control exposures to below the occupational exposure level (if available). Select and use containment devices and personal protective equipment based on a risk assessment of exposure potential. Cover all containers for solutions and slurries while being transferred. |

## Individual protection measures, such as personal protective equipment

|                               |                                                                                                                                                                                                                                                      |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye/face protection</b>    | Wear safety glasses with side shields, chemical splash goggles, or full face shield, if necessary. Base the choice of protection on the job activity and potential for contact with eyes or face. An emergency eye wash station should be available. |
| <b>Skin protection</b>        |                                                                                                                                                                                                                                                      |
| <b>Hand protection</b>        | Wear nitrile or other impervious gloves if skin contact is possible. When the material is dissolved or suspended in an organic solvent, wear gloves that provide protection against the solvent.                                                     |
| <b>Other</b>                  | Wear lab coat. Base the choice of skin protection on the job activity, potential for skin contact and solvents and reagents in use. Do not wear protective garments in common areas (e.g., cafeterias) or out-of-doors.                              |
| <b>Respiratory protection</b> | Respirators are generally not required for laboratory operations. Choose respiratory protection appropriate to the task and the level of existing engineering controls.                                                                              |
| <b>Thermal hazards</b>        | Wear appropriate thermal protective clothing, when necessary.                                                                                                                                                                                        |

**General hygiene considerations** Handling practices in this SDS are recommendations for laboratory use of USP materials.

## 9. Physical and chemical properties

|                                                     |                                                                                  |
|-----------------------------------------------------|----------------------------------------------------------------------------------|
| <b>Appearance</b>                                   | Appearance descriptions are general information and not specific to any USP lot. |
| <b>Physical state</b>                               | Solid.                                                                           |
| <b>Form</b>                                         | Powder.                                                                          |
| <b>Color</b>                                        | Light yellow. Yellow green. Brown.                                               |
| <b>Odor</b>                                         | Characteristic odor.                                                             |
| <b>Odor threshold</b>                               | Not available.                                                                   |
| <b>pH</b>                                           | Not available.                                                                   |
| <b>Melting point/freezing point</b>                 | Not available.                                                                   |
| <b>Initial boiling point and boiling range</b>      | Not available.                                                                   |
| <b>Flash point</b>                                  | Not available.                                                                   |
| <b>Evaporation rate</b>                             | Not available.                                                                   |
| <b>Flammability (solid, gas)</b>                    | Not available.                                                                   |
| <b>Upper/lower flammability or explosive limits</b> |                                                                                  |
| <b>Flammability limit - lower (%)</b>               | Not available.                                                                   |
| <b>Flammability limit - upper (%)</b>               | Not available.                                                                   |
| <b>Explosive limit - lower (%)</b>                  | Not available.                                                                   |
| <b>Explosive limit - upper (%)</b>                  | Not available.                                                                   |
| <b>Vapor pressure</b>                               | Not available.                                                                   |
| <b>Vapor density</b>                                | Not available.                                                                   |
| <b>Relative density</b>                             | Not available.                                                                   |
| <b>Solubility(ies)</b>                              |                                                                                  |
| <b>Solubility (water)</b>                           | Partly soluble.                                                                  |
| <b>Solubility (other)</b>                           | Methanol: Slightly soluble.<br>Alcohol: Soluble.                                 |
| <b>Auto-ignition temperature</b>                    | Not available.                                                                   |
| <b>Decomposition temperature</b>                    | Not available.                                                                   |
| <b>Viscosity</b>                                    | Not available.                                                                   |

## 10. Stability and reactivity

|                                           |                                                                                               |
|-------------------------------------------|-----------------------------------------------------------------------------------------------|
| <b>Reactivity</b>                         | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| <b>Chemical stability</b>                 | Material is stable under normal conditions.                                                   |
| <b>Possibility of hazardous reactions</b> | No dangerous reaction known under conditions of normal use.                                   |
| <b>Conditions to avoid</b>                | Contact with incompatible materials.                                                          |

|                                         |                                                                                  |
|-----------------------------------------|----------------------------------------------------------------------------------|
| <b>Incompatible materials</b>           | Strong oxidizing agents. Acids.                                                  |
| <b>Hazardous decomposition products</b> | Irritating and/or toxic fumes or gases. Emits toxic fumes under fire conditions. |

## 11. Toxicological information

### Information on likely routes of exposure

|                     |                                              |
|---------------------|----------------------------------------------|
| <b>Inhalation</b>   | Knowledge about health hazard is incomplete. |
| <b>Skin contact</b> | Knowledge about health hazard is incomplete. |
| <b>Eye contact</b>  | Knowledge about health hazard is incomplete. |
| <b>Ingestion</b>    | Knowledge about health hazard is incomplete. |

|                                                                                     |                                |
|-------------------------------------------------------------------------------------|--------------------------------|
| <b>Symptoms related to the physical, chemical and toxicological characteristics</b> | Gastrointestinal disturbances. |
|-------------------------------------------------------------------------------------|--------------------------------|

### Information on toxicological effects

|                                          |                                                         |
|------------------------------------------|---------------------------------------------------------|
| <b>Acute toxicity</b>                    | A related material showed low oral toxicity in animals. |
| <b>Skin corrosion/irritation</b>         | Knowledge about health hazard is incomplete.            |
| <b>Serious eye damage/eye irritation</b> | Knowledge about health hazard is incomplete.            |

### Respiratory or skin sensitization

|                                  |                                                     |
|----------------------------------|-----------------------------------------------------|
| <b>Respiratory sensitization</b> | Knowledge about sensitization hazard is incomplete. |
| <b>Skin sensitization</b>        | Knowledge about sensitization hazard is incomplete. |

|                               |                                             |
|-------------------------------|---------------------------------------------|
| <b>Germ cell mutagenicity</b> | Knowledge about mutagenicity is incomplete. |
|-------------------------------|---------------------------------------------|

|                        |                                                |
|------------------------|------------------------------------------------|
| <b>Carcinogenicity</b> | Knowledge about carcinogenicity is incomplete. |
|------------------------|------------------------------------------------|

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

#### US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

|                              |                                              |
|------------------------------|----------------------------------------------|
| <b>Reproductive toxicity</b> | Knowledge about health hazard is incomplete. |
|------------------------------|----------------------------------------------|

#### Reproductivity

250 mg/kg Reproductivity study  
Result: Reversible suppression of spermatogenesis and male fertility.  
Species: Mouse

|                                                         |                                              |
|---------------------------------------------------------|----------------------------------------------|
| <b>Specific target organ toxicity - single exposure</b> | Knowledge about health hazard is incomplete. |
|---------------------------------------------------------|----------------------------------------------|

|                                                           |                                              |
|-----------------------------------------------------------|----------------------------------------------|
| <b>Specific target organ toxicity - repeated exposure</b> | Knowledge about health hazard is incomplete. |
|-----------------------------------------------------------|----------------------------------------------|

|                          |                                                                   |
|--------------------------|-------------------------------------------------------------------|
| <b>Aspiration hazard</b> | Based on available data, the classification criteria are not met. |
|--------------------------|-------------------------------------------------------------------|

|                            |                                                                                         |
|----------------------------|-----------------------------------------------------------------------------------------|
| <b>Further information</b> | Botanical material or related compound. Pharmacological actions or potency are unknown. |
|----------------------------|-----------------------------------------------------------------------------------------|

## 12. Ecological information

|                                      |                                                                                                                                                                                                    |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Ecotoxicity</b>                   | The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. |
| <b>Persistence and degradability</b> | No data is available on the degradability of this substance.                                                                                                                                       |
| <b>Bioaccumulative potential</b>     | No data available.                                                                                                                                                                                 |
| <b>Mobility in soil</b>              | No data available.                                                                                                                                                                                 |
| <b>Other adverse effects</b>         | No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.            |

## 13. Disposal considerations

|                                   |                                                                                                                                                                                                                            |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Disposal instructions</b>      | 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. |
| <b>Local disposal regulations</b> | Dispose in accordance with all applicable regulations.                                                                                                                                                                     |

|                                              |                                                                                                                                                                 |
|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Hazardous waste code</b>                  | The waste code should be assigned in discussion between the user, the producer and the waste disposal company.                                                  |
| <b>Waste from residues / unused products</b> | 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). |
| <b>Contaminated packaging</b>                | Since emptied containers may retain product residue, follow label warnings even after container is emptied.                                                     |

## 14. Transport information

### DOT

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

**General information** It is the shipper's responsibility to determine the correct transport classification at the time of shipment.

## 15. Regulatory information

**US federal regulations** This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

### Toxic Substances Control Act (TSCA)

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

### CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

### SARA 304 Emergency release notification

Not regulated.

### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### SARA 302 Extremely hazardous substance

Not listed.

**SARA 311/312 Hazardous chemical** No

#### SARA 313 (TRI reporting)

Not regulated.

### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.

### US state regulations

#### California Proposition 65

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. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### 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                     |

| Country(s) or region        | Inventory name                                                         | On inventory (yes/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                     |
| Philippines                 | Philippine Inventory of Chemicals and Chemical Substances (PICCS)      | No                     |
| Taiwan                      | Taiwan Chemical Substance Inventory (TCSI)                             | No                     |
| 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

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Issue date</b>    | 03-03-2010                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Revision date</b> | 04-19-2023                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Version #</b>     | 04                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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