

# Material Safety Data Sheet (MSDS)

**Product Name:** Muira Puama Extract 3:1

**MSDS Generate Date:** 20-05-2017

**Revision Date:** 30-12-2024

## Supplier:

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## 1. Identification of the Substance/Preparation and Company

- **Product:** Muira Puama Extract 3:1
- **Use:** Botanical extract for use in dietary supplements, herbal formulations, cosmetic/OTC topical preparations (as applicable).
- **Recommended restrictions:** For industrial / professional use only. Not for direct human consumption without appropriate formulation and regulatory compliance.

## 2. Hazard(s) identification

- **GHS classification:** Not classified as hazardous under GHS criteria for the dry extract itself.
- **Signal word:** None required for the pure dried botanical extract.
- **Hazard statements:** None required for the pure dry extract.
- **Precautionary statements (general):**
  - Avoid inhalation of dust.

- Avoid contact with eyes.
- Keep out of reach of children.
- **Other hazards:** Fine powders can form dust clouds that — under extreme conditions — present a dust explosion hazard if dispersed in air and exposed to ignition sources. No other unique physical hazards known for the dry botanical extract.

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### 3. Composition / Information on ingredients

- **Mixture:** Botanical extract (Muir Puama) produced to specification at a 3:1 concentration ratio.
- **INCI / Botanical name:** Ptychopetalum olacoides (or as supplied).
- **Concentration / CAS:** Natural botanical mixture; single CAS not applicable to whole extract. If product contains carrier(s) or solvents (e.g., maltodextrin, ethanol), see supplier specification or label.
- **Impurities / stabilizers:** As per certificate of analysis (CoA). Trace naturally occurring constituents (alkaloids, glycosides, tannins, etc.) — amounts vary by batch.

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### 4. First-aid measures

- **Inhalation:** Remove person to fresh air. If breathing is difficult, administer oxygen and seek medical attention. If not breathing, give artificial respiration.
- **Skin contact:** Wash affected area with soap and water. Remove contaminated clothing and launder before reuse. Seek medical attention if irritation develops or persists.
- **Eye contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do — continue rinsing. Seek medical attention if irritation persists.
- **Ingestion:** Rinse mouth; do NOT induce vomiting unless directed by medical personnel. If large amounts are swallowed, get medical attention. Provide symptomatic treatment.
- **Notes for medical personnel:** Treat symptomatically. There are no specific antidotes. Provide supportive care.

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### 5. Fire-fighting measures

- **Suitable extinguishing media:** Water spray, foam, dry chemical, or CO<sub>2</sub> as appropriate for surrounding fire.
- **Unsuitable extinguishing media:** None known specific to product.

- **Special hazards from the substance or mixture:** Burning plant material may produce carbon oxides, smoke and irritating vapours. If product is dusty and involved in fire, avoid creating dust clouds.
- **Special protective equipment & precautions for firefighters:** Use NIOSH-approved self-contained breathing apparatus and full protective turnout gear. Evacuate area and fight fire from safe distance. Cool containers with water spray to avoid pressure build-up.
- **Advice for fire fighters:** Contain runoff to prevent environmental contamination.

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## 6. Accidental release measures

- **Personal precautions:** Avoid inhalation of dust. Wear appropriate PPE (see Section 8) — dust mask/respirator, gloves, eye protection. Keep unprotected persons away. Eliminate ignition sources.
- **Environmental precautions:** Prevent entry into drains, sewers, and waterways. If large spill, notify appropriate authorities.
- **Methods for containment & cleanup:**
  - For small spills: Sweep up or vacuum using HEPA-equipped vacuum; avoid raising dust. Place in suitable labeled containers for disposal.
  - For large spills: Cover with dampening agent (water spray) to reduce dust, then collect mechanically. Dispose according to local regulations.
- **Waste disposal:** Dispose in accordance with national/local regulations (see Section 13).

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## 7. Handling and storage

- **Handling:** Avoid creating dust. Use local exhaust ventilation where dust may be generated. Avoid inhalation and eye/skin contact. Wash hands after handling. Do not eat, drink or smoke in work areas.
- **Storage:** Store in a cool, dry, well-ventilated area in tightly closed containers away from heat and sources of ignition. Protect from moisture and direct sunlight. Store segregated from strong oxidizers.
- **Packaging material:** Store in original packaging (food/ pharmaceutical grade sacks, drums, or sealed containers as supplied).

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## 8. Exposure controls / Personal protection

- **Engineering controls:** Use closed systems or local exhaust ventilation to minimize dust. If dust generation cannot be avoided, use dust control measures.

- **Occupational exposure limits:** No specific occupational exposure limits (OELs) established for Muira Puama extract. Use general dust limits where applicable (e.g., respirable dust / inhalable dust per local regulations).
  - **Personal protective equipment (PPE):**
    - **Respiratory protection:** If airborne dust exceeds accepted limits, use NIOSH/EN-approved respirator with P-rated or FFP filter for particulates.
    - **Eye protection:** Safety goggles or face shield.
    - **Skin protection:** Protective gloves (nitrile, latex or as appropriate) and protective clothing.
    - **Hygiene measures:** Wash hands and exposed skin thoroughly after handling.
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## 9. Physical and chemical properties

- **Appearance:** Fine to coarse powder (color varies from light brown to brown depending on batch).
  - **Odor:** Characteristic botanical odour.
  - **pH:** Not applicable (solid). If in aqueous suspension, pH will depend on concentration — consult CoA.
  - **Melting / freezing point:** Not applicable (complex botanical).
  - **Boiling point / boiling range:** Not applicable.
  - **Flash point:** Not applicable for dry powder. If product contains solvent residues, follow solvent data.
  - **Auto-ignition temperature:** Not determined; organic powders may auto-ignite under extreme conditions — treat with caution.
  - **Explosive properties:** Fine dust dispersed in air may present a dust explosion hazard under specific conditions.
  - **Solubility:** Partially soluble to insoluble in water depending on extract preparation; soluble in some organic solvents — refer to supplier specification.
  - **Bulk density:** Batch dependent — refer to CoA.
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## 10. Stability and reactivity

- **Chemical stability:** Stable under recommended storage conditions.

- **Possibility of hazardous reactions:** None known under normal handling and storage. Avoid mixing with strong oxidizing agents.
- **Conditions to avoid:** Excessive heat, open flame, moisture (can affect product quality), strong oxidizers, ignition sources and dust accumulation.
- **Incompatible materials:** Strong oxidizers.
- **Hazardous decomposition products:** On combustion: carbon monoxide, carbon dioxide, various organic decomposition products which may be irritating or toxic.

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## 11. Toxicological information

- **Acute toxicity:** No specific acute toxicity data for the standardized extract is available in this MSDS. Botanical extracts may vary; treat as potentially irritant if in high concentrations.
- **Skin corrosion/irritation:** May cause mild irritation in sensitive individuals or with prolonged contact.
- **Serious eye damage/irritation:** Dust may cause mechanical irritation to eyes.
- **Respiratory or skin sensitization:** Sensitization potential unknown; individuals with plant allergies may be susceptible.
- **Repeated dose toxicity / Carcinogenicity / Mutagenicity / Reproductive toxicity:** No authoritative data available for the standardized Muira Puama extract in this MSDS. Use in formulations should follow regulatory and toxicological evaluation appropriate to end use.
- **Toxicological note:** Because botanical extracts can contain bioactive constituents, do not assume safety for ingestion or medicinal use without appropriate toxicological and regulatory assessment. Refer to toxicology reports, CoA and literature for batch-specific safety.

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## 12. Ecological information

- **Ecotoxicity:** No specific aquatic toxicity data available for this botanical extract. Expected to be of low acute toxicity to aquatic organisms at typical environmental concentrations but may be harmful in high concentrations.
- **Persistence and degradability:** Organic and biodegradable under natural conditions.
- **Bioaccumulative potential:** Not expected to bioaccumulate significantly, but data are limited.
- **Mobility in soil:** Likely to adsorb to soil organic matter; mobility limited.

- **Other adverse effects:** Avoid release of large quantities to the environment. Prevent entry into waterways and sewers.
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### 13. Disposal considerations

- **Product disposal:** Dispose of in accordance with local, regional, national and international regulations. Incineration or landfill may be suitable if allowed by local authorities. Contaminated packaging should be emptied and disposed of properly.
  - **Contaminated packaging:** Dispose of as non-hazardous solid waste unless contaminated with hazardous substances. Recycle where possible and permitted.
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### 14. Transport information (DETAILED)

**Important:** The guidance below is for the dry botanical extract as supplied (powder). Transport classification can change depending on physical state, formulation (e.g., if dissolved in flammable solvents), contamination, or applicable national/regional rules. Always verify with carrier and competent authority before shipping.

#### 14.1 UN Number

- **UN No.:** Not applicable / No UN number assigned for the dry Muira Puama Extract (Not regulated as dangerous goods) **when shipped as a dry, inert botanical extract.**

#### 14.2 Proper Shipping Name

- **Proper Shipping Name:** Not regulated — Botanical extract / Herbal extract (Muirá Puama) (**Not a dangerous good under ADR/IMDG/IATA/49 CFR**) when shipped dry and free of hazardous solvents.

#### 14.3 Transport Hazard Class(es)

- **Class:** Not classified (No hazard class) for the dry extract.
- **Label(s):** None required when not classified. If packaged with hazardous solvents, apply appropriate labels (e.g., Flammable Liquid).

#### 14.4 Packing Group

- **Packing group:** Not applicable (N/A) for non-regulated product.

#### 14.5 Environmental Hazards

- **Marine pollutant:** Not considered a marine pollutant under IMDG when shipped as a dry botanical extract. If mixed with hazardous materials, check marine pollutant status of those materials.

## 14.6 Special precautions for user / Additional transport information

- **General precautions:**
  - Prevent formation and accumulation of dust in packaging and transport units.
  - Keep containers closed and dry. Protect from moisture and direct sunlight.
  - Secure packages to prevent shifting and damage.
  - Prevent contamination with oxidizing agents or flammable liquids.
- **Segregation:** No special segregation required for the pure dry extract. If co-shipping with regulated materials, segregate according to applicable regulations (e.g., oxidizers from organics).
- **Packing instruction guidance:** Use sturdy, closed containers (sacks, drums, fiberboard boxes with inner liners) appropriate for powders; inner liners to prevent moisture ingress.
- **Maximum transport quantity / Limited quantities:** Subject to carrier and national rules for powders and packaged goods; check limited quantity exemptions for air and road transport if applicable.
- **Handling with bulk shipments:** For road/rail/sea bulk transport, follow standard precautions for dry organic powders (avoid dust generation).
- **Tunnels & road restrictions:** No specific tunnel category assigned for non-hazardous botanical powders.
- **If shipped as solution/tincture (e.g., in ethanol):** The transport classification may change (e.g., flammable liquid) — consult the safety data for the solvent and classify accordingly (UN number, proper shipping name, class, packing group, etc.).
- **Regulatory references:** Transportation must comply with ADR (Europe), IMDG (marine), IATA DGR / ICAO (air), and 49 CFR (US), and with national transport regulations. Shipper should determine applicability prior to shipment.

## 14.7 Emergency Response — Transport

- **Spill (transport):** For non-regulated dry powder — avoid dust generation; sweep/vacuum; collect for disposal. For regulated consignments, follow carrier emergency procedures.
- **Fire (transport):** Use extinguishers suitable for organic material fires; if mixed with solvents, follow solvent firefighting measures.

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## 15. Regulatory information

- **Local / national regulations:** Comply with applicable regulations for botanical extracts, cosmetics, dietary ingredients, or herbal medicines in the target market. Product may be subject to food, supplement or cosmetic regulations rather than chemical regulations.
- **Safety/hazard classification:** Not classified as hazardous under GHS when supplied as a dry botanical extract. If solvents or other additives are present, those materials may impose regulatory obligations (e.g., flammable liquids, VOCs).
- **Labelling:** Provide label information consistent with intended use (e.g., “For use in manufacturing only” or “Not for direct consumption” where applicable) and local legal requirements.

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## 16. Other information

- **Disclaimer:** The information in this MSDS is believed to be accurate as of the revision date given above. It is offered in good faith, but no warranty, expressed or implied, is made. The user must determine suitability of the product for their particular application and compliance with applicable laws and regulations. This MSDS does not constitute a specification or guarantee of product properties. For complete product specification and Certificate of Analysis (CoA), contact supplier.
- **MSDS Generate Date:** 20-05-2017
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- **Website:** [www.rawpharmabiz.com](http://www.rawpharmabiz.com)
- MSDS are based on the manufacturer's provided information.