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Material Safety Data Sheet (MSDS)

Product Name: Miswak Extract Powder
MSDS Generate Date: 20-05-2017
Revision Date: 30-12-2024

Supplier:

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1. Identification of the Substance and Company

Product Name: Miswak Extract Powder

Botanical Name: *Salvadora persica* Extract

Common Name: Miswak Extract, Toothbrush Tree Extract, Salvadora persica Extract

CAS Number: Not Assigned

Chemical Nature: Herbal Plant Extract Powder

Recommended Use:
Used in herbal formulations, oral care products, toothpaste, mouthwash, nutraceuticals, dietary supplements, cosmetic preparations, pharmaceutical formulations, and research applications.

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2. Hazard Identification

GHS Classification: Miswak Extract Powder is generally not classified as hazardous under the Globally Harmonized System (GHS) when handled under normal industrial conditions.

Potential Health Effects:

Inhalation: Dust may cause temporary irritation to the nose, throat, and respiratory tract.

Skin Contact: Prolonged or repeated contact may cause mild irritation in sensitive individuals.

Eye Contact: Dust particles may cause temporary mechanical irritation, redness, and watering.

Ingestion: Low toxicity is expected under normal conditions of use. Excessive ingestion may result in mild gastrointestinal discomfort.

Environmental Hazards: No significant environmental hazards are expected. Avoid unnecessary release of large quantities into the environment.

Precautionary Statements:

- Avoid breathing dust.
- Avoid contact with eyes.
- Wash hands thoroughly after handling.
- Use appropriate dust control measures.
- Keep container tightly closed.
- Store in a cool and dry place.

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3. Composition / Information on Ingredients

Miswak Extract Powder is obtained from the stems, roots, or other suitable parts of *Salvadora persica* through aqueous or hydroalcoholic extraction followed by drying. The product contains naturally occurring phytochemicals including alkaloids, flavonoids, tannins, saponins, sulfur-containing compounds, chlorides, silica, calcium salts, essential oils, and other plant-derived constituents. The composition may vary depending on botanical origin, extraction process, solvent system, and standardization level. No hazardous additives are intentionally incorporated unless specified in the product specification.

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4. First Aid Measures

Inhalation: Move the affected person to fresh air. Seek medical attention if irritation persists.

Skin Contact: Wash thoroughly with soap and water. Remove contaminated clothing.

Eye Contact: Immediately flush eyes with clean water for at least 15 minutes. Remove contact lenses if present. Obtain medical advice if irritation continues.

Ingestion: Rinse mouth with water. Drink plenty of water. If discomfort develops after ingestion of large quantities, seek medical attention.

Most Important Symptoms

- Mild respiratory irritation
- Temporary eye irritation
- Mild skin irritation
- Gastrointestinal discomfort following excessive ingestion

5. Fire Fighting Measures

Suitable Extinguishing Media: Water spray, Dry chemical powder, Carbon dioxide (CO_2), Foam.

Unsuitable Extinguishing Media: No specific restrictions. Select extinguishing media suitable for surrounding fire.

Fire Hazards: Organic powder may produce combustible dust concentrations if dispersed in air.

Hazardous Combustion Products: Carbon monoxide, carbon dioxide, smoke, and irritating organic vapors.

Protective Equipment: Wear self-contained breathing apparatus (SCBA) and full protective clothing.

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6. Accidental Release Measures

Personal Precautions:

- Avoid generating airborne dust.
- Wear suitable gloves and eye protection.
- Ensure adequate ventilation.

Environmental Precautions: Prevent large quantities from entering drains or waterways.

Cleanup Methods: Collect spilled powder carefully using methods that minimize dust generation. Sweep or vacuum into suitable containers for disposal. Clean the affected area thoroughly.

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7. Handling and Storage

Handling

- Avoid creating excessive dust.
- Avoid inhalation of dust.
- Use good industrial hygiene practices.
- Wash hands after handling.
- Keep containers tightly closed.

Storage

Store in a tightly sealed container in a cool, dry, and well-ventilated place.

Protect from moisture, direct sunlight, excessive heat, contamination, and strong odors.

Recommended storage temperature is generally 15°C–30°C.

8. Exposure Controls / Personal Protection

- **Engineering Controls:** Provide adequate ventilation. Local exhaust ventilation is recommended where dust generation occurs.

Personal Protective Equipment:

- **Respiratory Protection:** Dust mask or particulate respirator where airborne dust is generated.
- **Eye Protection:** Safety glasses with side shields.
- **Hand Protection:** Protective gloves.
- **Skin Protection:** Protective clothing appropriate to workplace conditions.

9. Physical and Chemical Properties

Appearance: Fine light brown to brown powder

Odor: Characteristic herbal odor

Physical State: Solid powder

pH: Varies depending on concentration in solution

Bulk Density: Varies according to grade

Solubility: Partially soluble in water depending on extraction process; soluble in hydroalcoholic solutions

Moisture Content: Typically below specification limits

Flash Point: Not applicable

Boiling Point: Not applicable

Melting Point: Not applicable

Auto-Ignition Temperature: Not determined

Explosive Properties: Dust may form combustible mixtures with air under certain conditions

Oxidizing Properties: None known

Vapor Pressure: Not applicable

Vapor Density: Not applicable

10. Stability and Reactivity

Reactivity: Stable under recommended storage conditions.

Chemical Stability: Stable when stored in tightly closed containers.

Conditions to Avoid: Excessive heat, Moisture, Direct sunlight, Dust generation, Strong oxidizing agents.

Incompatible Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, smoke, and irritating organic decomposition products.

11. Toxicological Information

Acute Toxicity: Low toxicity is expected under normal conditions of use.

Skin Irritation: May cause mild irritation after prolonged contact.

Eye Irritation: Dust may cause temporary mechanical irritation.

Respiratory Effects: Dust may irritate the respiratory tract.

Sensitization: No known sensitizing effects under normal conditions of use.

Carcinogenicity: No known carcinogenic effects.

Mutagenicity: No known mutagenic effects.

Reproductive Toxicity: No known reproductive toxicity.

12. Ecological Information

Ecotoxicity: No significant ecological hazard is expected.

Persistence and Degradability: Natural plant material is expected to biodegrade.

Bioaccumulative Potential: Not expected to bioaccumulate significantly.

Mobility: Limited mobility in soil. Insoluble particles may settle.

Environmental Precautions: Avoid unnecessary release into drains, rivers, lakes, and soil.

13. Disposal Considerations

Dispose of unused material and contaminated packaging in accordance with local, regional, and national regulations.

Do not discharge large quantities into drains or natural waterways.

Recycle or dispose of empty containers through approved waste management facilities.

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14. Transport Information

Miswak Extract Powder is generally not classified as dangerous goods under ADR/RID, IMDG, or IATA regulations when supplied as a conventional herbal extract powder.

The product should be transported in clean, dry, tightly sealed containers to prevent contamination, moisture absorption, dust generation, and deterioration of quality during transportation.

UN Number: Not regulated.

UN Proper Shipping Name: Not regulated.

Transport Hazard Class: Not regulated.

Packing Group: Not applicable.

Environmental Hazard: Not classified as environmentally hazardous for transport.

Marine Pollutant: No.

Road Transport (ADR/RID): Transport in sealed HDPE drums, fiber drums, laminated bags, or other approved packaging suitable for herbal powders. Protect containers from moisture, excessive heat, and physical damage. Secure cargo properly to prevent movement during transit.

Sea Transport (IMDG): Not classified as dangerous goods under the IMDG Code. Protect containers from seawater, humidity, contamination, and excessive heat. Keep packages tightly sealed throughout shipment.

Air Transport (IATA): Generally not regulated as dangerous goods. Use leak-resistant, moisture-resistant packaging suitable for air transportation and protect against damage caused by pressure variations.

Special Transport Precautions:

- Keep containers tightly closed.
- Protect from moisture and direct sunlight.
- Prevent contamination.

- Avoid excessive dust generation during loading and unloading.
- Protect from physical damage.
- Secure cargo to prevent movement during transport.
- Store separately from strong oxidizing agents and strong-smelling substances.
- Inspect packaging before dispatch.
- Do not transport damaged or leaking containers.
- Follow all applicable local and international transportation regulations.

Transport in Bulk According to MARPOL Annex II and IBC Code: Not applicable for packaged herbal extract powder.

Emergency Transport Information: In case of accidental spillage during transportation, avoid creating airborne dust. Collect the spilled material using methods that minimize dust generation and transfer it into suitable containers for disposal or recovery. Prevent entry into drains and waterways. Personnel involved in cleanup should wear suitable gloves, eye protection, and a dust mask where necessary.

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15. Regulatory Information

- Miswak Extract Powder should be handled in accordance with applicable occupational safety, pharmaceutical, cosmetic, nutraceutical, food, environmental, and transportation regulations relevant to its intended application.
- The product is generally not classified as hazardous under normal conditions of storage and handling.

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16. Other Information

The information contained in this Material Safety Data Sheet is based on currently available information regarding Miswak Extract Powder and is intended to provide guidance for safe handling, storage, transportation, and disposal.

Product characteristics may vary depending on botanical source, extraction process, standardization level, and manufacturing conditions. Users should refer to the applicable Product Specification and Certificate of Analysis before use.

This MSDS does not constitute a warranty of product specifications or suitability for any specific application. Users are responsible for ensuring compliance with all applicable local, national, and international regulations.

- **MSDS Generate Date:** 20-05-2017
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- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer’s provided information.