

Material Safety Data Sheet (MSDS)

Product Name: Pomegranate Powder (Spray Dried)

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 Name: Pomegranate Powder (Spray Dried)

Synonyms: Punica Granatum Fruit Powder, Pomegranate Extract Powder

Use: Used in food, nutraceuticals, beverages, cosmetics, and health supplements.

2. Hazards Identification

- **Classification:** Non-hazardous substance.
- **Physical Hazards:** None known.
- **Health Hazards:** Generally regarded as safe when handled appropriately.
- **Environmental Hazards:** Non-toxic and biodegradable.
- **Label Elements:** No hazard pictogram required.

- **Signal Word:** None.
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3. Composition / Information on Ingredients

Chemical Nature: Natural fruit powder

Ingredients: 100% Pomegranate (*Punica granatum*) Juice, Spray Dried on Maltodextrin Base.

CAS No.: Not applicable (natural product)

EINECS No.: Not applicable

4. First Aid Measures

- **Inhalation:** Move to fresh air. Seek medical attention if irritation persists.
 - **Skin Contact:** Wash with soap and water. If irritation occurs, get medical advice.
 - **Eye Contact:** Rinse immediately with plenty of water for at least 15 minutes.
 - **Ingestion:** Rinse mouth with water. Non-toxic, but consult a physician if discomfort occurs.
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5. Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, CO₂, dry chemical powder, or foam.
 - **Unsuitable Media:** None known.
 - **Special Hazards:** Organic dust may form explosive mixtures with air.
 - **Protective Equipment:** Wear self-contained breathing apparatus and protective clothing.
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6. Accidental Release Measures

- **Personal Precautions:** Avoid inhalation of powder. Use protective mask and gloves.

- **Environmental Precautions:** Non-hazardous to the environment. Avoid excessive release to drains.
 - **Clean-Up Method:** Sweep up and dispose of in closed containers. Wash area with water.
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7. Handling and Storage

- **Handling:** Avoid dust generation. Use in well-ventilated areas.
 - **Storage:** Store in a cool, dry, and airtight container. Keep away from moisture, sunlight, and heat.
 - **Storage Temperature:** Below 25°C.
 - **Shelf Life:** 24 months when properly stored.
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8. Exposure Controls / Personal Protection

- **Engineering Controls:** Ensure adequate ventilation.
 - **Respiratory Protection:** Dust mask recommended.
 - **Hand Protection:** Use disposable gloves.
 - **Eye Protection:** Safety goggles if dust is generated.
 - **Hygiene Measures:** Wash hands after handling and before eating or drinking.
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9. Physical and Chemical Properties

- **Appearance:** Light pink to reddish fine powder
- **Odor:** Characteristic fruity odor
- **Taste:** Sweet and tangy
- **Solubility:** Soluble in water
- **pH (5% solution):** 3.0 – 4.0

- **Bulk Density:** 0.4 – 0.7 g/ml
 - **Flash Point:** Not applicable
 - **Melting Point:** Not applicable
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10. Stability and Reactivity

- **Stability:** Stable under recommended storage conditions.
 - **Incompatible Materials:** Strong oxidizing agents.
 - **Hazardous Decomposition Products:** None known.
 - **Conditions to Avoid:** High temperature and humidity.
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11. Toxicological Information

- **Toxicity:** Non-toxic.
 - **Acute Effects:** None known.
 - **Chronic Effects:** No adverse effects known.
 - **Sensitization:** Not expected to be a skin sensitizer.
 - **Carcinogenicity:** Not listed as carcinogenic by IARC or OSHA.
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12. Ecological Information

- **Ecotoxicity:** Not harmful to aquatic or terrestrial organisms.
 - **Biodegradability:** Readily biodegradable.
 - **Bioaccumulation:** Not expected.
 - **Mobility in Soil:** Moderate due to solubility in water.
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13. Disposal Considerations

- **Waste Disposal:** Dispose of according to local regulations.
 - **Packaging Disposal:** Recycle or dispose of in accordance with local environmental laws.
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14. Transport Information (Detailed)

UN Number: Not applicable (non-hazardous material)

UN Proper Shipping Name: Pomegranate Powder (Spray Dried)

Transport Hazard Class: Not classified as hazardous for transport.

Packing Group: Not applicable

Environmental Hazards: None

Special Precautions for User:

- Ensure the product is securely packed in moisture-proof packaging.
- Avoid contact with water or humid environments during transit.
- Protect from direct sunlight and excessive heat.
- Maintain packaging integrity to prevent contamination or spillage.

Transport in Bulk (IMDG / IATA): Not regulated.

ADR / RID Classification: Not applicable.

IMDG Code: Non-hazardous.

IATA Classification: Not restricted under air transport regulations.

Precautionary Transport Label: "Non-Hazardous Food Ingredient."

Recommended Transportation Mode: Land or air in sealed food-grade bags or drums.

15. Regulatory Information

- **Regulation Compliance:** Complies with FSSAI and food safety standards.
 - **Labeling Requirements:** Natural food-grade product, non-hazardous.
 - **Chemical Safety Assessment:** Not required for food-grade natural products.
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16. Other Information

Disclaimer: The information provided in this MSDS is believed to be accurate and reliable as of the date of issue.

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