

Material Safety Data Sheet (MSDS)

Product Name: Piperine Dry Extract 5:1

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 Name:** Piperine Dry Extract 5:1
- **Synonyms:** Black Pepper Extract, Piperine Powder
- **Recommended Use:** Pharmaceutical ingredient, nutraceuticals, dietary supplements, food additive, research purposes.

2. Hazard Identification

- **Classification (GHS):**
 - Irritant to eyes and skin (Category 2)
 - May cause respiratory irritation (Category 3)
- **Signal Word:** Warning
- **Hazard Statements:**
 - H315: Causes skin irritation.

- H319: Causes serious eye irritation.
 - H335: May cause respiratory irritation.
 - **Precautionary Statements:**
 - Avoid breathing dust.
 - Wear protective gloves, clothing, and eye/face protection.
 - Wash hands thoroughly after handling.
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3. Composition / Information on Ingredients

- **Substance Name:** Piperine Dry Extract 5:1
 - **Active Principle:** Piperine
 - **CAS Number:** 94-62-2
 - **Molecular Formula:** C₁₇H₁₉NO₃
 - **Concentration:** Standardized extract (5:1 ratio from Piper nigrum seeds).
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4. First Aid Measures

- **Inhalation:** Move to fresh air. Seek medical attention if irritation persists.
 - **Skin Contact:** Wash with soap and water. Seek medical help if rash occurs.
 - **Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present. Seek immediate medical advice.
 - **Ingestion:** Rinse mouth. Do not induce vomiting without medical advice. Seek medical attention.
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5. Fire Fighting Measures

- **Suitable Extinguishing Media:** Water spray, foam, dry chemical powder, CO₂.
 - **Specific Hazards:** May produce carbon monoxide, carbon dioxide, and nitrogen oxides on combustion.
 - **Protective Equipment:** Firefighters should wear self-contained breathing apparatus.
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6. Accidental Release Measures

- **Personal Precautions:** Use protective equipment, avoid dust formation.
- **Environmental Precautions:** Prevent entry into drains and water bodies.
- **Clean-up Methods:** Sweep up, place in sealed container for disposal. Avoid dust.

7. Handling and Storage

- **Handling:** Avoid inhalation, ingestion, and contact with eyes/skin. Use in well-ventilated areas.
- **Storage:** Store in a cool, dry, well-ventilated area away from heat and moisture. Keep container tightly closed.

8. Exposure Controls / Personal Protection

- **Exposure Limits:** Not established for Piperine.
- **Engineering Controls:** Use local exhaust ventilation.
- **Personal Protective Equipment:**
 - Respiratory: Dust mask.
 - Skin: Protective gloves.
 - Eyes: Safety goggles.
 - Clothing: Protective clothing.

9. Physical and Chemical Properties

- **Appearance:** Yellow to light brown powder
- **Odor:** Characteristic pepper odor
- **Taste:** Bitter, pungent
- **Solubility:** Slightly soluble in water, soluble in alcohol
- **Melting Point:** ~130 °C
- **Molecular Weight:** 285.34 g/mol

10. Stability and Reactivity

- **Stability:** Stable under recommended storage conditions.
- **Conditions to Avoid:** Heat, moisture, direct sunlight.
- **Incompatible Materials:** Strong oxidizing agents.
- **Decomposition Products:** Carbon oxides, nitrogen oxides.

11. Toxicological Information

- **Acute Toxicity:** LD₅₀ (oral, rat) ~330 mg/kg (literature).
- **Skin Corrosion/Irritation:** Causes mild to moderate irritation.
- **Eye Damage/Irritation:** Causes irritation.
- **Respiratory Effects:** May cause coughing and throat irritation.
- **Chronic Effects:** High doses may affect liver function.

12. Ecological Information

- **Ecotoxicity:** Not classified as hazardous to the environment.
- **Persistence/Degradability:** Biodegradable.
- **Bioaccumulation Potential:** Low.
- **Mobility in Soil:** Low mobility due to poor water solubility.

13. Disposal Considerations

- Dispose of in accordance with local, regional, national, and international regulations.
- Avoid release into the environment.

14. Transport Information (Detailed)

- **UN Number:** Not applicable (not classified as hazardous).
- **Proper Shipping Name:** Piperine Dry Extract 5:1
- **Transport Hazard Class:** Not regulated as dangerous goods under ADR, IMDG, IATA.
- **Packing Group:** Not applicable

- **Label Requirements:** None
 - **Marine Pollutant:** No
 - **Special Precautions:**
 - Ensure containers are tightly closed to prevent spillage during transport.
 - Protect from moisture and direct sunlight.
 - Handle with care to avoid dust generation.
 - **Transport by Road/Rail (ADR/RID):** Not regulated.
 - **Transport by Sea (IMDG):** Not regulated.
 - **Transport by Air (IATA/ICAO):** Not regulated.
 - **Additional Notes:** Product is safe for transport under normal conditions when packaged properly. Use sealed fiber drums, HDPE containers, or double-layered bags inside cartons.
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15. Regulatory Information

- This product is not classified as hazardous according to EU Regulation (EC) No. 1272/2008 (CLP).
 - Complies with local chemical inventory standards.
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16. Other Information

- **Disclaimer:** The information provided in this MSDS is believed to be accurate and represents the best information available. However, Rawpharma Biz makes no warranty of merchantability or fitness for any particular purpose and assumes no liability resulting from its use.
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.