



# Material Safety Data Sheet (MSDS)

**Product Name:** Vitamin A Palmitate Dry Powder 250CWS

**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:** Vitamin A Palmitate Dry Powder 250 CWS

**Synonyms:** Retinyl Palmitate, Vitamin A Ester

**Recommended Use:** Nutritional supplement, food fortification, pharmaceutical formulations, cosmetic applications

## 2. Hazards Identification

### Classification (GHS):

- Eye irritation, Category 2A
- Skin irritation, Category 2
- Specific target organ toxicity (repeated exposure), Category 2

**Signal Word:** Warning

### Hazard Statements:

- Causes skin and eye irritation.

- May cause damage to organs through prolonged or repeated exposure.
- Harmful if swallowed in large amounts.

**Precautionary Statements:**

- Avoid contact with eyes, skin, and clothing.
- Do not breathe dust.
- Wash thoroughly after handling.
- Use only in a well-ventilated area.

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### 3. Composition / Information on Ingredients

Vitamin A Palmitate Dry Powder 250 CWS is a formulated mixture composed primarily of Vitamin A Palmitate (CAS No. 79-81-2) present at approximately 1%, equivalent to 250,000 IU per gram. The remaining content consists of a carbohydrate matrix that includes maltodextrin and modified starch, serving as carriers for stabilization. Additionally, the product may contain trace amounts of antioxidants such as ascorbyl palmitate and tocopherols to enhance oxidative stability.

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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 attention for persistent irritation.
- **Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present.
- **Ingestion:** Rinse mouth. Seek medical advice if large quantities are swallowed.

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### 5. Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, dry chemical, CO<sub>2</sub>, or foam.
- **Specific Hazards:** Combustible powder; dust may form explosive mixtures in air.
- **Protective Equipment:** Wear self-contained breathing apparatus and protective clothing.

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## 6. Accidental Release Measures

- Avoid dust formation.
- Sweep or vacuum without generating dust.
- Place in properly labeled containers for disposal.
- Ensure adequate ventilation.

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## 7. Handling and Storage

- Handle in accordance with good industrial hygiene and safety practices.
- Avoid contact with eyes and skin.
- Store in a cool, dry, and dark place below 25°C.
- Protect from light, moisture, and oxidizing agents.

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## 8. Exposure Controls / Personal Protection

- **Engineering Controls:** Provide local exhaust ventilation.
- **Personal Protective Equipment:**
  - **Eyes:** Safety goggles.
  - **Skin:** Protective gloves and clothing.
  - **Respiratory:** Dust mask (N95 or equivalent) when airborne dust is present.

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## 9. Physical and Chemical Properties

- **Appearance:** Free-flowing, off-white to yellowish powder
- **Odor:** Slight characteristic odor
- **Solubility:** Dispersible in cold water
- **Bulk Density:** Approx. 0.4–0.6 g/cm<sup>3</sup>
- **Melting Point:** Decomposes

- **Flash Point:** Not applicable
  - **Stability:** Stable under recommended storage conditions
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## 10. Stability and Reactivity

- **Stability:** Stable under normal storage conditions.
  - **Conditions to Avoid:** Heat, light, humidity, and air exposure.
  - **Incompatible Materials:** Strong oxidizers and acids.
  - **Decomposition Products:** CO<sub>2</sub>, CO, and other toxic fumes upon burning.
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## 11. Toxicological Information

- **Acute Toxicity:** Low toxicity at normal levels of exposure.
  - **LD<sub>50</sub> (Oral, Rat):** >2000 mg/kg (estimated)
  - **Irritation:** May cause mild irritation to eyes, skin, or respiratory tract.
  - **Chronic Effects:** Excessive vitamin A intake may cause hypervitaminosis A.
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## 12. Ecological Information

- **Ecotoxicity:** Not expected to be harmful to aquatic organisms at low concentrations.
  - **Persistence and Degradability:** Biodegradable.
  - **Bioaccumulative Potential:** Low.
  - **Mobility in Soil:** Low mobility due to lipophilic nature.
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## 13. Disposal Considerations

- Dispose of in accordance with local, regional, and national regulations.
  - Do not release into the environment.
  - Contaminated packaging should be disposed of as per regulatory norms.
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## 14. Transport Information (Detailed)

**UN Number:** Not regulated

**UN Proper Shipping Name:** Not applicable (Non-hazardous)

**Transport Hazard Class:** Not classified as dangerous goods under ADR/RID, IMDG, or IATA regulations.

**Packing Group:** Not applicable

**Marine Pollutant:** No

**Detailed Transport Guidance:**

Vitamin A Palmitate Dry Powder 250 CWS is not considered hazardous for transport by land, sea, or air. However, it should be handled with care to prevent dust generation and product degradation.

- **Road/Rail Transport (ADR/RID):** Ensure product is packed in sealed, moisture-proof containers. Avoid exposure to sunlight and high temperatures during transport.
- **Sea Transport (IMDG):** Keep container tightly closed, stored in a cool and dry compartment, away from oxidizing materials. Avoid contact with water.
- **Air Transport (IATA):** Package in airtight, light-protective bags inside fiber drums or cartons. No specific hazard label required.
- **Precautions:** Avoid mechanical stress that may damage packaging. Handle using clean equipment to prevent contamination.

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## 15. Regulatory Information

- **Regulation Compliance:** Complies with EU, FDA, and Indian Food Safety Standards (when used as per recommended limits).
- **Labeling Requirements:** Non-hazardous under GHS classification for normal handling.
- **Inventory Status:** Listed in TSCA, EINECS, and REACH.

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## 16. Other Information

**Disclaimer:**

The information provided in this MSDS is believed to be accurate and reliable to the best of our knowledge as of the revision date. Users are responsible for ensuring suitability of the product for their intended applications and for complying with all applicable regulations.

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