

Material Safety Data Sheet (MSDS)

Product Name: Vitamin D3 40 MIU IP Grade

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 D3 (Cholecalciferol) 40 MIU IP Grade

Synonyms: Cholecalciferol, Vitamin D3 Concentrate

CAS No.: 67-97-0

Molecular Formula: C₂₇H₄₄O

Molecular Weight: 384.64 g/mol

Recommended Use: Pharmaceutical ingredient, nutritional supplement, and fortification agent.

Restrictions on Use: For industrial and laboratory use only. Not intended for direct human consumption.

2. Hazards Identification

Classification (GHS):

- Acute Toxicity (Oral) – Category 3
- Specific Target Organ Toxicity (Repeated Exposure) – Category 2

Signal Word: *Danger*

Hazard Statements:

- H301: Toxic if swallowed.
- H373: May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements:

- P260: Do not breathe dust or vapors.
- P264: Wash thoroughly after handling.
- P270: Do not eat, drink, or smoke when using this product.
- P280: Wear protective gloves and eye/face protection.
- P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

3. Composition / Information on Ingredients

Chemical Name: Vitamin D3 (Cholecalciferol)

CAS No.: 67-97-0

Purity: 40 MIU/g (IP Grade)

Chemical Nature: Fat-soluble vitamin

4. First Aid Measures

Inhalation: Remove victim to fresh air. Seek medical attention if symptoms persist.

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

Eye Contact: Rinse immediately with plenty of water for at least 15 minutes.

Ingestion: Rinse mouth. Do not induce vomiting. Seek immediate medical assistance.

Most Important Symptoms: Nausea, vomiting, weakness, increased thirst, or hypercalcemia symptoms.

5. Firefighting Measures

Suitable Extinguishing Media: Dry chemical, carbon dioxide (CO₂), foam, or water spray.

Special Hazards: May emit toxic fumes under fire conditions.

Protective Equipment: Firefighters should wear self-contained breathing apparatus and protective clothing.

6. Accidental Release Measures

Personal Precautions: Avoid dust formation. Wear protective gloves, mask, and goggles.

Environmental Precautions: Prevent contamination of soil and water.

Methods for Cleaning Up: Sweep up carefully and place in properly labeled containers for disposal.

7. Handling and Storage

Handling: Avoid contact with eyes, skin, and clothing. Use in well-ventilated areas.

Storage: Store in a cool, dry, and dark place. Protect from light, heat, and moisture.

Storage Temperature: 2°C – 8°C recommended.

8. Exposure Controls / Personal Protection

Engineering Controls: Use adequate ventilation.

Respiratory Protection: Use dust mask if ventilation is insufficient.

Eye Protection: Safety goggles recommended.

Hand Protection: Chemical-resistant gloves.

Hygiene Measures: Wash hands thoroughly after handling.

9. Physical and Chemical Properties

Appearance: White to off-white powder

Odor: Odorless or faint characteristic odor

Solubility: Insoluble in water, soluble in ethanol and fats

Boiling Point: Not available

Melting Point: Approx. 83°C

pH: Not applicable

Flash Point: Not applicable

Stability: Stable under recommended conditions.

10. Stability and Reactivity

Stability: Stable under normal conditions.

Conditions to Avoid: Heat, sunlight, and moisture.

Incompatible Materials: Strong oxidizing agents, acids, and bases.

Hazardous Decomposition Products: Carbon oxides and other toxic fumes on burning.

11. Toxicological Information

Acute Toxicity: Toxic if ingested in large quantities.

LD50 (oral, rat): 42 mg/kg (approx.)

Chronic Effects: Overexposure may lead to hypercalcemia and kidney damage.

Carcinogenicity: Not classified as carcinogenic.

Mutagenicity: No known mutagenic effects.

12. Ecological Information

Ecotoxicity: Harmful to aquatic organisms in large quantities.

Persistence/Degradability: Biodegradable under aerobic conditions.

Bioaccumulative Potential: May bioaccumulate in fatty tissues.

Mobility in Soil: Low mobility in soil.

13. Disposal Considerations

Dispose of in accordance with local, regional, and national regulations. Avoid release into the environment. Contaminated packaging should be disposed of safely.

14. Transport Information (Detailed)

UN Number: Not regulated

Proper Shipping Name: Vitamin D3 (Cholecalciferol)

Transport Hazard Class: Not classified as dangerous under IMDG, IATA, ADR, or DOT regulations.

Detailed Transport Guidelines:

- **Road/Rail (ADR/RID):** Non-hazardous material. Avoid physical damage to containers.
- **Sea (IMDG):** Not restricted. Should be transported in tightly closed, light-resistant containers. Protect from moisture and direct sunlight during shipment.
- **Air (IATA):** Not regulated as hazardous. Ensure packaging prevents exposure to light and heat.
- **Environmental Precautions:** Avoid release into the environment during transport.
- **Packaging Group:** Not applicable.
- **Special Precautions:** Keep the product in an upright position during transportation. Do not store or transport near strong oxidizers or food intended for direct consumption.

15. Regulatory Information

Regulation Compliance:

- IP (Indian Pharmacopoeia) Grade
- Follows GHS and local chemical safety regulations.
Labelling Requirements: Handle as per pharmaceutical-grade handling procedures.

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. The product should be used only for the applications intended and handled by qualified professionals.

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