

Material Safety Data Sheet (MSDS)

Product Name: Vitamin B12 (Cyanocobalamin) IP Grade

MSDS Generate Date: 20-05-2017

Revision Date: 30-12-2024

Supplier:

Rawpharma Biz Pvt Ltd

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1. Identification of the Substance/Preparation and Company

Product Name: Vitamin B12 (Cyanocobalamin)

Synonyms: Cyanocobalamin, Cobalamin

Recommended Use: Nutraceuticals, pharmaceuticals, dietary supplements, feed additives.

2. Hazards Identification

- Not classified as hazardous under normal conditions of use.
- May cause mild irritation to skin, eyes, or respiratory tract if handled inappropriately.
- Avoid inhalation of dust.

3. Composition / Information on Ingredients

Chemical Name: Vitamin B12 (Cyanocobalamin)

Molecular Formula: C₆₃H₈₈CoN₁₄O₁₄P

CAS No.: 68-19-9

Concentration: ≥ 98%

4. First Aid Measures

- **Inhalation:** Move to fresh air. Seek medical attention if irritation persists.
- **Skin Contact:** Wash thoroughly with soap and water.
- **Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present.
- **Ingestion:** Non-toxic in normal dietary quantities. For large accidental ingestion, seek medical advice.

5. Fire Fighting Measures

- **Suitable Extinguishing Media:** Water spray, dry chemical, carbon dioxide, foam.
- **Hazardous Combustion Products:** Oxides of carbon, nitrogen, and cobalt compounds.
- **Protective Equipment:** Firefighters should wear protective clothing and self-contained breathing apparatus.

6. Accidental Release Measures

- Avoid dust formation.
- Sweep or vacuum spill, avoiding airborne dust.
- Dispose of in accordance with local regulations.

7. Handling and Storage

- **Handling:** Avoid breathing dust. Use in a well-ventilated area.
- **Storage:** Store in tightly sealed containers, protected from light and moisture. Recommended temperature: 2–8°C.

8. Exposure Controls / Personal Protection

- **Engineering Controls:** Adequate ventilation.
- **Personal Protective Equipment (PPE):**
 - Safety glasses

- Protective gloves
- Dust mask/respirator if handling bulk powder

9. Physical and Chemical Properties

- **Appearance:** Dark red crystalline powder
- **Odor:** Odorless
- **Solubility:** Soluble in water
- **Melting Point:** Decomposes > 300°C
- **pH (1% solution):** 4.5 – 5.5

10. Stability and Reactivity

- **Stability:** Stable under recommended storage conditions.
- **Conditions to Avoid:** Exposure to heat, light, and moisture.
- **Incompatible Materials:** Strong oxidizing agents, strong acids.
- **Hazardous Decomposition Products:** CO, CO₂, NO_x, cobalt oxides.

11. Toxicological Information

- **Acute Toxicity:** Low oral toxicity (LD₅₀ > 2000 mg/kg in rats).
- **Skin & Eye Irritation:** Mild, reversible irritation possible.
- **Carcinogenicity/Mutagenicity:** Not classified as carcinogenic or mutagenic.
- **Chronic Effects:** No adverse effects reported at nutritional levels.

12. Ecological Information

- **Ecotoxicity:** Not expected to be harmful to aquatic or terrestrial organisms.
- **Persistence/Degradability:** Biodegradable.
- **Bioaccumulation:** Not expected to bioaccumulate.

13. Disposal Considerations

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

14. Transport Information (Detailed)

- **UN Number:** Not applicable (non-hazardous).
- **UN Proper Shipping Name:** Not regulated as dangerous goods.
- **Transport Hazard Class(es):** Not classified.
- **Packing Group:** Not assigned.
- **Environmental Hazards:** No special environmental hazards identified.
- **Transport by Road (ADR/RID):** Not regulated.
- **Transport by Air (IATA/ICAO):** Not regulated. Can be shipped as general cargo.
- **Transport by Sea (IMDG):** Not regulated. No marine pollutant.
- **Precautions:**
 - Ensure packaging is sealed and protected from physical damage.
 - Avoid exposure to high temperatures, humidity, or direct sunlight during transit.
 - Store in cool, dry, and well-ventilated transport conditions.

15. Regulatory Information

- Not classified as hazardous according to GHS.
- Permitted for use in food, feed, and pharmaceuticals under relevant guidelines.

16. Other Information

- The information provided is believed to be accurate and is based on the present state of knowledge.
- It is intended to describe product safety requirements and should not be construed as a guarantee of specific properties.
- **MSDS Generate Date:** 20-05-2017

- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.