



# NEWAY SINOPHC TECH. LIMITED

ADD:RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI) PILOT FREE TRADE ZONE.  
Email:marketing01@newayphc.com; Phone:+86-021-50350029 <https://www.newayphc.com>

## Safety Data Sheet (MSDS)

(According to GB/T 16483 and GB/T 17519; Adapts to GHS, IMDG, IATA Standards) **Revision**

**Date:** 05 FEB 2026

### SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking

#### 1.1 Product Identifiers

- Product Name: Cyanocobalamin (Vitamin B12)
- Product Number: CCB-20260205
- Brand: SIGALD
- CAS-No.: 68-19-9
- Synonyms: Vitamin B12; Cyanocobalamine; Cobamamide
- MDL Number: MFCD00082077

#### 1.2 Details of the supplier

- Company: NEWAY SINOPHC TECH. LIMITED
- Address: RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI) PILOT FREE TRADE ZONE.
- Telephone: +86-021-50350029
- Fax: +86-021-50350029

1.3 **Emergency telephone:** +86-021-50350029 (CHEMTREC)

#### 1.4 Identified Uses & Uses Advised Against

- Identified Uses: Food additive (fortification), pharmaceutical raw material, cosmetic ingredient, feed additive for livestock/poultry/aquaculture.
- Uses Advised Against: No unauthorized industrial use; not for direct bulk inhalation/ingestion without formulation.

### SECTION 2: Hazards Identification

2.1 **GHS Classification:** Not a hazardous substance or mixture (GHS 0 category) 2.2 **GHS Label Elements**

- Hazard Pictogram: None
- Signal Word: None
- Hazard Statements: None

2.3 **Physical and Chemical Hazards:** No physical/chemical hazards identified; non-combustible. 2.4 **Health Hazards:** No acute/chronic health hazards for normal use; non-toxic via oral/dermal/inhalation route; no irritation to skin/eyes. 2.5

**Environmental Hazards:** Environmentally friendly; fully biodegradable; no adverse effects on aquatic/terrestrial organisms; cobalt content is trace and non-toxic. 2.6 **Other Hazards:** No additional hazards identified.

### SECTION 3: Composition/Information on Ingredients

- Substance / Mixture: Pure Substance
- Active Ingredient: Cyanocobalamin (100%, w/w) | CAS:68-19-9 | Non-hazardous
- Inherent Component: Cobalt (4.3-4.8%, w/w) | Non-hazardous in trace amount



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- No hazardous ingredients present.

## SECTION 4: First Aid Measures

### 4.1 First-Aid Measures

- If Inhaled: Move to fresh air; no special treatment if no discomfort; rest if coughing occurs.
  - In Case of Skin Contact: Rinse skin with running water for 5 minutes; no irritation expected; no special treatment needed.
  - In Case of Eye Contact: Rinse eyes with plenty of running water for 5 minutes; consult a doctor only if rare irritation persists.
  - If Swallowed: Rinse mouth with water; no toxic effects for normal/even high-dose ingestion; no special treatment required.
- 4.2 **Symptoms and Effects:** No known acute/delayed toxic effects for normal use.
- 4.3 **Medical Attention:** No specific treatment required; treat symptomatically if rare adverse reaction occurs.

## SECTION 5: Firefighting Measures

5.1 **Extinguishing Media:** Water spray, foam, carbon dioxide (CO<sub>2</sub>), dry powder.

5.2 **Special Hazards:** Non-combustible; decomposes at high temperature to release trace cyanide (negligible concentration, non-toxic); no hazardous combustion gases.

5.3 **Firefighter Advice:** Wear standard fire-fighting gear; avoid inhalation of thermal decomposition fumes in large fires.

## SECTION 6: Accidental Release Measures

6.1 **Personal Precautions:** Wear dust mask and nitrile gloves for large spills; avoid dust inhalation (no skin/eye protection needed for normal contact).

6.2 **Environmental Precautions:** No special measures; product is biodegradable and non-polluting; trace cobalt causes no environmental harm.

6.3 **Clean Up:** Sweep up spilled powder with a brush; transfer to sealed container for reuse/disposal; wipe the area with water if needed.

6.4 **Disposal Reference:** See Section 13.

## SECTION 7: Handling and Storage

7.1 **Safe Handling:** Operate in a well-ventilated area; avoid dust generation/inhalation; wash hands after handling; no special incompatibility precautions for normal use.

7.2 **Safe Storage**

- Conditions: Store in a cool, dry, dark warehouse ( $\leq 25^{\circ}\text{C}$ ); keep container tightly closed; protect from moisture, light and heat (critical for stability).
- Incompatibilities: Strong oxidizing agents, strong acids (concentrated), strong alkalis (concentrated).
- Storage Class: 13 (Non-Hazardous Solids)
- Shelf Life: 36 months (unopened, specified storage conditions); 6 months after opening (sealed, refrigerated).

## SECTION 8: Exposure Controls/Personal Protection

8.1 **Control Parameters:** No occupational exposure limits (national/international standards).

### Exposure Controls



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- Engineering Controls: Basic ventilation sufficient; dust collection system for large-scale bulk handling.
- PPE: Dust mask (N95 for dust); safety glasses/nitrile gloves are optional (no irritation risk); no respiratory protection needed for normal use.
- Environmental Controls: No special measures required.

### SECTION 9: Physical and Chemical Properties

- Physical State: Crystalline powder
- Color: Dark red to dark purple
- Odor: Odorless
- Solubility: Sparingly soluble in water; slightly soluble in ethanol; insoluble in ether, chloroform, acetone
- pH (1% aqueous suspension, 25°C): 4.0-6.0
- Bulk Density: 1.2-1.4 g/cm<sup>3</sup>
- Flammability: Non-combustible
- Oxidizing/Reducing Properties: None
- Explosive Properties: Not explosive
- Cobalt Content: 4.3-4.8% (w/w)

### SECTION 10: Stability and Reactivity

10.1 **Stability:** Stable under recommended storage/use conditions; degrades rapidly in light, high temperature and extreme pH (acid/alkali). 10.2 **Hazardous Reactions:** No hazardous reactions under normal use; decomposes in extreme conditions to release trace non-toxic cyanide. 10.3 **Conditions to Avoid:** Direct sunlight, high temperature (> 40°C), moisture, concentrated strong acids/alkalis/oxidants. 10.4 **Incompatibilities:** Concentrated HCl/H<sub>2</sub>SO<sub>4</sub>, NaOH/KOH, hydrogen peroxide, potassium permanganate. 10.5 **Decomposition Products:** Trace cyanide (low concentration), cobalt oxide, carbon dioxide, water vapor; no toxic decomposition products at normal scale.

### SECTION 11: Toxicological Information

- Acute Oral Toxicity (Rat, LD<sub>50</sub>): > 10,000 mg/kg
- Acute Dermal Toxicity (Rabbit, LD<sub>50</sub>): > 10,000 mg/kg
- Inhalation Toxicity (Rat, LC<sub>50</sub>): > 5000 mg/m<sup>3</sup> (4-hour exposure)
- Skin Irritation (Rabbit): Non-irritating
- Eye Irritation (Rabbit): Non-irritating
- Sensitization: No skin/respiratory sensitization
- Carcinogenicity: Not classified by IARC/EPA/NTP
- Reproductive Toxicity: No known reproductive effects; essential vitamin for fetal development.

### SECTION 12: Ecological Information

- Aquatic Toxicity (Zebrafish, LC<sub>50</sub>, 96h): > 5000 mg/L
- Biodegradability: Fully biodegradable (BOD<sub>5</sub>/COD > 0.6)



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- Bioaccumulation Potential: No bioaccumulation; trace cobalt is metabolized by organisms.
- Soil Mobility: Low; no adverse effects on soil/environmental organisms.

### SECTION 13: Disposal Considerations

- Product Waste: Dispose via licensed waste treatment facilities; or reuse as raw material if uncontaminated; small amount can be discarded as ordinary solid waste.
- Packaging Waste: Rinse packaging with water; dispose as non-hazardous solid waste or recycle.
- Compliance: Follow local/national/international waste disposal regulations.

### SECTION 14: Transport Information

- UN Number: ADR/RID/IMDG/IATA: -
- UN Proper Shipping Name: Non-dangerous goods (all modes)
- Transport Hazard Class: -
- Packaging Group: -
- Environmental Hazards: No (non-marine pollutant)
- Transport Precautions: Avoid moisture, light, high temperature (>30°C) and collision; protect packaging from breakage.

### SECTION 15: Regulatory Information

- National (China): Non-hazardous chemical; complies with Food Safety Law, Pharmaceutical Administration Law, Feed Additive Standard.
- International: GHS (Rev.9) Non-hazardous; REACH (EU) registered; TSCA (US) listed on inventory; USP/FCC/EP compliant; classified as essential food/feed additive.

### SECTION 16: Other Information

This MSDS is based on current scientific knowledge and complies with GB/T 16483, GB/T 17519, GHS standards. Supplier is not liable for damage caused by improper use/non-compliance with safety precautions. This product is an essential vitamin; food/pharmaceutical/feed grade are available for corresponding applications.