



Safety Data Sheet

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

Cyanocobalamin

30-1662

Section 1: Identification

Product Name Cyanocobalamin
Commercial Name Vitamin B12
Product Use For the fortification of foods, Ingredient/additive for dietary supplements, personal care products
Restrictions On Use Not available.
Product Code 30-1662
Company PCCA
9901 South Wilcrest
Houston, TX 77099
Phone: 1-800-331-2498
Fax: 1-800-874-5760

In case of emergency contact:
CHEMTREC (24hr) 1-800-424-9300

Section 2: Hazard(s) Identification

OSHA Haz Com: Light sensitive. Hygroscopic (absorbs moisture from the air). This is expected to be a low hazard for usual
CFR 1910.1200 industrial handling.
Signal Word NON-HAZARDOUS
Hazard Statement(s) May cause eye, skin, and respiratory tract irritation
Pictogram(s) or Symbol(s)

Precautionary Statement(s):

Prevention Not available.
Response Not available.
Storage Not available.
Disposal Not available.

Section 3: Composition/Information on Ingredients

Substance/Mixture Substance
Components Cyanocobalamin
% By Weight 100
CAS# 68-19-9
Molecular Weight 1355 g/mole
Chemical Formula C63H88CoN14O14P
Synonym(s) Anacobin; Vitamin B12; 1H-Benzimidazole, 5,6-dimethyl-1-(3-O-phosphono-alpha-d-ribofuranosyl)-, monoester with cobinamide cyanide hydroxide, inner salt; Cyanocobalamin

Mixtures				
Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
Cyanocobalamin	68-19-9	100	Not available.	Not available.



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Section 4: First-Aid Measures

Inhalation	Move individual away from exposure and into fresh air.
Skin Contact	Wash off with soap and water and remove contaminated clothing and shoes. If skin is damaged, seek immediate medical attention.
Eye Contact	Flush eyes with water as precaution. Get medical attention if irritation develops and persists.
Ingestion	Wash out mouth with water. Seek medical attention if discomfort persists.
Symptoms/Effects	
Acute	Not available
Delayed	Not available
Immediate Medical Attention	
Treat symptomatically.	

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media	Use extinguishing media most appropriate for the surrounding fire
Unsuitable Extinguishing Media	No Data available
Products of Combustion	Incomplete combustion will generate poisonous carbon monoxide, carbon dioxide, nitrogen oxides and other toxic gases.
Firefighters Special Equipment and Precautions	As in any fire, wear a self-contained breathing apparatus in pressure-demand, and full protective gear.

Section 6: Accidental Release Measures

Personal Precautions: Avoid dust formation. Wear appropriate respiratory protection. Ensure adequate ventilation.
Environmental precautions: Do not empty into drains. Cleanup: Vacuum or sweep up material to recycling or place into a suitable container for disposal in accordance with local regulations.

Section 7: Handling and Storage

Handling: Avoid all unnecessary exposure. Provide appropriate ventilation at places where dust is formed. Avoid breathing dust and contact with eyes, skin and clothing. Storage: Store in an airtight container, protected from light.

Section 8: Exposure Controls/Personal Protection

Exposure Limits	None listed for ACGIH, NIOSH, OSHA - Final PELs
Engineering Controls	Ventilate as necessary to eliminate dust from the work area.
Personal Protection	Respiratory Protection: Use NIOSH/OSHA approved respirators if dust generated. Skin: Wear appropriate protective gloves or clothing to prevent skin exposure. Eye Protection: Wear appropriate protective eyeglasses or chemical goggles in compliance with OSHA regulations. Exposure limits: ACGIH NIOSH OSHA-Final PELs are not listed for Cyanocobalamin

Section 9: Physical and Chemical Properties

Appearance	dark red, crystals or crystalline powder		
Odor	Odorless		
Odor Threshold	Not available.		
Melting Point	Not available	pH	Not available
Freezing Point	Not available	Vapor Pressure	Not available
Boiling Point/Range	Not available	Vapor Density	Not available.
Decomposition temperature	Not available.	Viscosity	Not available.
Partition Coefficient: n-octanol/water	Not available.	Evaporation Rate	Not available
Flash Point	Not available.	Autoignition temperature	Not available.
Flammability	Not available.	Flammability or Explosive Limits:	
		Lower	Not available.
		Upper	Not available.
Solubility(ies)	It is sparingly soluble in water and in ethanol, and practically insoluble in		
Other	Not available.		

Section 10: Stability and Reactivity

Reactivity	Not available.
Chemical Stability	Stable under normal temperature and pressure
Hazardous Polymerization	Not occur
Conditions to Avoid	High temperature. Avoid acids and alkalis, reducing and oxidizing agents. Avoid sources of ignition, sparks and open flame.
Incompatible Materials	Strong oxidizers, strong acids
Hazardous Decomposition Products	Nitrogen oxides, Carbon dioxide, Carbon monoxide, Phosphorous oxide.

Section 11: Toxicological Information**RTECS** GG375000**Acute Toxicity**

Not a toxic product. This material is not considered to be a carcinogen. Handling in accordance with protective measures and with personal protective equipment is without health hazards.

Skin Corrosion/Irritation

Not available.

Serious Eye Damage/Irritation

Not available.

Respiratory or Skin Sensitization

Not available.

Germ Cell Mutagenicity

Not available.

Carcinogenicity

IARC: none listed. ACGIH: none listed. NTP: none listed. OSHA: none listed.

Reproductive Toxicity

Not available.

Routes of Entry

Not available.



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Symptoms Related to Exposure

Not available.

Potential Health Effects

Not available.

Target Organ(s)

Not available.

Section 12: Ecological Information

Ecotoxicity

Not available.

Persistence and Degradability

Not available.

Bioaccumulative Potential

Not available.

Mobility in Soil

Not available.

Other Adverse Effects

Not available.

Section 13: Disposal Considerations

Waste Disposal

Dispose of in a manner consistent with local regulations.

Disposal of Container

Not available.

Other Considerations

Not available.

Section 14: Transport Information

DOT Classification

DOT, IATA, IMDG, TDG: Not classified in the transport of hazardous goods category. Hazard Class: Not applicable UN Number: None Packing Group: None

Section 15: Regulatory Information

Regulations

International Inventories: EINECS TSCA DSL NZIoC IECSC AICS KECL PICCS is verified ENCS is not verified

Other

Not available

Section 16: Other Information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising.