

**Safety Data Sheet**

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

**Section 1: Identification****Product Name** HYDROXOCOBALAMIN USP (VITAMIN B12a)**Commercial Name** Not available**Product Use** Not available**Restrictions On Use** Not available**Product Code** 30-5046**Company** PCCA  
9901 South Wilcrest  
Houston, TX 77099  
Phone: 1-800-331-2498  
Fax: 1-800-874-5760In case of emergency contact:  
**CHEMTREC (24hr) 1-800-424-9300****Section 2: Hazard(s) Identification****OSHA Haz Com:** Skin irritation (Category 2) Eye irritation (Category 2A) Specific target organ toxicity- single exposure**CFR 1910.1200** (Category 3), Respiratory system**Signal Word** WARNING**Hazard Statement(s)** Causes skin irritation. Causes serious eye irritaiton. May cause respiratory 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** Hydroxocobalamin**% By Weight** 100**CAS#** 13422 -51 -0**Molecular Weight** 1346.38 g/mole**Chemical Formula** C6217189CON13015P**Synonym(s)** Cobinamide, dihydroxide, dihydrogen phosphate(ester), mono (inner) salt, 3' -ester with 5,6— dimethyl —1—alpha — D - ribofuranosyl -1H- benzimidazole.**Mixtures**

<b>Name</b>	<b>CAS#</b>	<b>% by Weight</b>	<b>TLV/PEL</b>	<b>LC50/LD50</b>
Hydroxocobalamin	13422-51-0	100	N/A	N/A

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**Section 4: First-Aid Measures**

<b>Inhalation</b>	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
<b>Skin Contact</b>	In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention. Serious skin contact: Wash with a disinfectant soap and cover the contaminated skin with an antibacterial cream, Seek medical attention
<b>Eye Contact</b>	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.
<b>Ingestion</b>	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband
<b>Symptoms/Effects</b>	
<b>Acute</b>	N/A
<b>Delayed</b>	N/A
<b>Immediate Medical Attention</b>	N/A

**Section 5: Fire-Fighting Measures****Suitable Extinguishing Media**

N/A

**Unsuitable Extinguishing Media**

N/A

**Products of Combustion**

These products are carbon oxides (CO, CO<sub>2</sub>), nitrogen oxides (NO, NO<sub>2</sub>) some metallic oxides Slightly flammable to flammable in presence of heat. Non-flammable in presence of shocks

**Firefighters Special Equipment and Precautions**

SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use waterjet.

**Section 6: Accidental Release Measures**

Small spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements. Large spill: Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow evacuating through the sanitary system.

**Section 7: Handling and Storage**

Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If you feel unwell, seek medical attention and show the label when possible. Avoid contact with skin and eyes. Storage: Keep container tightly closed. Store in a refrigerator.

**Section 8: Exposure Controls/Personal Protection**

<b>Exposure Limits</b>	Not available
<b>Engineering Controls</b>	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit
<b>Personal Protection</b>	Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves In case of a large spill: Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

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**Section 9: Physical and Chemical Properties**

<b>Appearance</b>	Solid		
<b>Odor</b>	Odorless or has not more than slight acetone odor		
<b>Odor Threshold</b>	N/A		
<b>Melting Point</b>	N/A	<b>pH</b>	N/A
<b>Freezing Point</b>	N/A	<b>Vapor Pressure</b>	N/A
<b>Boiling Point/Range</b>	N/A	<b>Vapor Density</b>	N/A
<b>Decomposition temperature</b>	N/A	<b>Viscosity</b>	N/A
<b>Partition Coefficient: n-octanol/water</b>	N/A	<b>Evaporation Rate</b>	N/A
<b>Flash Point</b>	N/A	<b>Autoignition temperature</b>	N/A
<b>Flammability</b>	N/A	<b>Flammability or Explosive Limits:</b>	
		<b>Lower</b>	N/A
		<b>Upper</b>	N/A
<b>Solubility(ies)</b>	soluble in cold water. insoluble in diethyl ether, acetone		
<b>Other</b>	N/A		

**Section 10: Stability and Reactivity**

<b>Reactivity</b>	Light sensitive
<b>Chemical Stability</b>	The product is stable.
<b>Hazardous Polymerization</b>	Will not occur
<b>Conditions to Avoid</b>	Elevated temperatures, light , incompatible materials
<b>Incompatible Materials</b>	Not available
<b>Hazardous Decomposition Products</b>	Not available

**Section 11: Toxicological Information**
**RTECS** Not available

**Acute Toxicity**

LD50: Not available LC50: Not available Inhalation: Dust may cause respiratory tract irritation. Ingestion: May cause digestive tract irritation. The toxicological properties of this substance have not been fully investigated

**Skin Corrosion/Irritation**

May cause skin irritation. May cause allergic reactions.

**Serious Eye Damage/Irritation**

Dust may cause eye irritation

**Respiratory or Skin Sensitization**

Not available

**Germ Cell Mutagenicity**

Not available

**Carcinogenicity**

Not available

**Reproductive Toxicity**

Not available

**Routes of Entry**

Inhalation. Ingestion

**Symptoms Related to Exposure**

Not available

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**Potential Health Effects**

Not available

**Target Organ(s)**

Not available

**Section 12: Ecological Information****Ecotoxicity**

Not available

**Persistence and Degradability**

Possibly hazardous shory term degradation products are not likely. However, long term degradation prodcuts may arise

**Bioaccumulative Potential**

Not available

**Mobility in Soil**

Not available

**Other Adverse Effects**

Toxicity of the products of Biodegradation: The product itself and its products of degradation are not toxic

**Section 13: Disposal Considerations****Waste Disposal**

Waste must be disposed of in accordance with federal, state and local environmental control regulations

**Disposal of Container**

Not available

**Other Considerations**

Not available

**Section 14: Transport Information****DOT Classification**

Not a DOT controlled material (United States)

**Section 15: Regulatory Information****Regulations**

Federal and State Regulations: TSCA 8 (b) inventory: Hydroxocobalamin Other Regulations: EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances Other Classifications: WHMIS (Canada): Not controlled under WHMIS (Canada) DSCL(EEC): R36/38-Irritating to eyes and skin. S2-Keep out of reach of children. S46-If swallowed, seek medical advice immediately andshow this container or label. HMIS (USA): Health Hazard: 2 Fire Hazard: 1 Reactivity: 0 Personal Protection: E National Fire Protection Association(USA): Health: 2 Flammability:1 Reactvity:0 Specific hazard: Protecctive Equipment: Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Splash goggles.

**Other**

Not available

**Section 16: Other Information**

References: Not available Otehr special considerations: Not available