



Section 1. Product and Company Identification

Product Name Hydroxocobalamin
CAS Number 13422-51-0

Parchem - fine & specialty chemicals
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EMERGENCY RESPONSE NUMBER
CHEMTEL
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Section 2. Hazards Identification

Classification of the substance or mixture

Not Classified

HMIS Classification

Health Hazard: 0

Reactivity: 0

Flammability: 0

Personal Protection: E

Section 3. Composition / Information on Ingredients

Common Name Hydroxocobalamin
Synonym(s) Cobinamide, dihydroxide, dihydrogen phosphate (ester), mono (inner salt), 3'-ester with 5, 6-dimethyl-1- α -D-ribofuranosyl-1H-benzimidazole
Formula $C_{62}H_{89}CoN_{13}O_{15}P$
CAS Number 13422-51-0

COMPONENT	CAS NUMBER	CONCENTRATION
Hydroxocobalamin, USP	13422-51-0	100%

Section 4. First Aid Measures

In Case of Eye Contact: Flush with copious amounts of water for 15 minutes, separating eyelids with fingers. If irritation persists seek medical aid.

In Case of Skin Contact: Wash with soap & water for 15 minutes. If irritation persists seek medical aid.

If Swallowed: Call a physician. Wash out mouth with water. Do not induce vomiting without medical advice.

If Inhaled: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.



Symptoms and Effects: Not expected to present a significant hazard under anticipated conditions of normal use.

Section 5. Firefighting Measures

Specific Hazards Arising From the Chemical: Not applicable

Flammable Properties: May be combustible at high temperature

Hazardous Combustion Products: Under fire conditions, hazardous fumes will be present.

Extinguishing Media: Small fire: dry chemical, CO₂ or water spray. Large fire: dry chemical, CO₂, alcohol resistant foam or water spray. Do not get water inside containers.

Protective Equipment and Precautions for Firefighters: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Section 6. Accidental Release Measures

Personal Precautions: Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

Methods and Material for Containment: On land, sweep or shovel into suitable containers. Minimize generation of dust.

Cleanup Procedure: Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves. Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas. Shut off all sources of ignition. Evacuate the area. If necessary, employ water fog to disperse the vapors. Absorb the matter with compatible vermiculite or other absorbing material. Place in a suitable container and retain for disposal. Ventilate and clean the affected area. Do not flush into sewerage system or to drains.

Section 7. Handling and Storage

Precautions for Safe Handling: Do not inhale. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Wash thoroughly after handling.

Storage Conditions: Preserve in tight, light-resistant containers, between 2 - 8°C.

Section 8. Exposure Controls / Personal Protection

Chemical Name	CAS	OSHA PEL			AIHA WEEL		Safe Work Australia HSIS	
		TWA	Ceiling	Skin Designation	8hr TWA	Ceiling	TWA	STEL
Hydroxocobalamin	13422-51-0	N/L	N/L	N/L	N/L	N/L	N/L	N/L

N/L = Not Listed; X = Listed



Exposure Guidelines: Consult local authorities for provincial or state exposure limits

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by WHMIS or OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to minimize contact with skin.

Respirators: Follow WHMIS or OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Specific Engineering Controls: Adequate mechanical ventilation. Fume hood, eye wash station, and safety shower.

Section 9. Physical and Chemical Properties

Physical State: Solid

Description: Dark red crystals or red crystalline powder. Is odorless, or has not more than a slight acetone odor. Is hygroscopic.

Solubility: Sparingly soluble in water, in alcohol, and in methanol; practically insoluble in acetone, in ether, in chloroform, and in benzene.

Odor: Odorless or slight acetone odor

Flammability: May be combustible at high temperature

Odor Threshold: Not available

pH: Not available

Melting Point: Not available

Boiling Point: Not available

Freezing Point: Not available

Flash Point: Not available

Specific Gravity: Not available

Evaporation Rate: Not available

Explosive Limit: Not available

Upper Flammable/Explosive Limit(s): Not available

Lower Flammable/Explosive Limit(s): Not available

Vapor Pressure: Not available

Vapor Density (Air = 1): Not available

Relative Density (Water = 1): Not available

Log P (Octanol-Water): Not available

Auto-Ignition Temperature: Not available

Decomposition Temperature: Not available

Viscosity: Not available

Section 10. Stability and Reactivity

Reactivity: Not established

Stability: Stable under recommended storage conditions

Materials to Avoid: Strong oxidants, strong acids

Hazardous Decomposition Products: Toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides and other gases may occur

Hazardous Polymerization: Will not occur

Possibility of Hazardous Reaction: Not established

Conditions to Avoid: Moisture, sunlight and extreme temperatures

Section 11. Toxicological Information

Acute Toxicity: Not available

Skin Corrosion/Irritation: Not available

Serious Eye Damage/Eye Irritation: Not available

Respiratory or Skin Sensitization: Not available

Germ Cell Mutagenicity: Not available

Carcinogenicity

OSHA: Hydroxocobalamin (Vitamin B12a) is not listed.

NTP: Hydroxocobalamin (Vitamin B12a) is not listed.

IARC: Hydroxocobalamin (Vitamin B12a) is not evaluated.

California Proposition 65: This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

Reproductive Toxicity: Not available

Specific Target Organ Toxicity - Single Exposure: Not available

Specific Target Organ Toxicity - Repeated Exposure: Not available

Aspiration Hazards: Not available

Signs and Symptoms of Exposure: Not expected to present a significant hazard under anticipated conditions of normal use.

Potential Health Effects

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion: May be harmful if swallowed.

Skin: May be harmful if absorbed through skin. May cause skin irritation

Eyes: May cause eye irritation.

Notes: May cause allergic hypersensitivity reactions; arrhythmias secondary to hypokalaemia have occurred at the beginning of parenteral treatment with hydroxocobalamin; intranasal cyanocobalamin may cause arthralgia, dizziness, headache, nasopharyngitis and rhinitis, epistaxis; gastrointestinal disturbances, fever, chills, hot flushing, dizziness, malaise, acneform, bullous eruptions, tremor, headaches, paraesthesia, chromaturia.



Section 12. Ecological Information

Toxicity: Not available

Persistence and Degradability: Not available

Bioaccumulative Potential: Not available

Mobility in Soil: Not available

Other Adverse Effects: This product is not intended to be released into the environment

Section 13. Disposal Considerations

Waste Treatment Methods: Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

United States & Canada

UN Proper Shipping Name: Not dangerous good

UN Number: Not applicable

Class: Not applicable

Packing Group: Not applicable

Australia

UN Proper Shipping Name: Not dangerous good

UN Number: Not applicable

Class: Not applicable

Packing Group: Not applicable

Hazchem: Not Applicable

Environmental Hazards: Not available

Special Shipping Information: Not applicable

Section 15. Regulatory Information

U.S. Regulation

CERCLA 40 CFR Part 302.4		N/L
SARA (Title III) 40 CFR Part 372.65		N/L
EPA 40 CFR Part 355	Appendix A	N/L
	Appendix B	N/L
Right-to-know	Pennsylvania	N/L
	New Jersey	N/L
	Massachusetts	N/L
California Prop 65		N/L

N/L = Not Listed; X = Listed

Australian Regulations

Poisons and Therapeutic Goods Regulation	N/L
Therapeutic Goods Act	N/L
Code of Practices - Illicit Drug Precursors	N/L

N/L = Not Listed; X = Listed

Section 16. Other Information

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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