



Safety Data Sheet

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

Methylcobalamin

30-2963

Section 1: Identification

Product Name Methylcobalamin
Commercial Name Not available
Product Use Laboratory chemicals, Manufacture of substances.
Restrictions On Use Not available

Product Code 30-2963

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: Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.
CFR 1910.1200

Signal Word NON-HAZARDOUS

Hazard Statement(s) Not available.

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 Methylcobalamin
% By Weight 100
CAS# 13422-55-4
Molecular Weight 1344.4 g/mole
Chemical Formula C63-H91-Co-N13-O14-P
Synonym(s) Not available.

Mixtures

Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
METHYLCOBALAMIN	13422-55-4	100	Not available.	Not applicable.

Section 4: First-Aid Measures

Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Skin Contact	Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used.
Eye Contact	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 if irritation occurs.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.
Symptoms/Effects	
Acute	Not available.
Delayed	Not available
Immediate Medical Attention	Not available.

Section 5: Fire-Fighting Measures
Suitable Extinguishing Media

SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam.

Unsuitable Extinguishing Media

Do not use waterjet.

Products of Combustion

These products are carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂...). Some metallic oxides.

Firefighters Special Equipment and Precautions

May be combustible at high temperature. Fire Hazards in Presence of Various Substances: Slightly flammable to flammable in presence of open flames and sparks, of heat. Non-flammable in presence of shocks. Explosion Hazards in Presence of Various Substances*. Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Avoid dust formation. Avoid breathing vapours, mist or gas. For personal protection see section 8. 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 to evacuate through the sanitary system.

Section 7: Handling and Storage

Precautions : 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 ingest. Do not breathe dust. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents. Storage : Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8: Exposure Controls/Personal Protection

Exposure Limits	Not available.
Engineering Controls	Engineering Controls: 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.
Personal Protection	Personal Protection : Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves. Personal Protection 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.

Section 9: Physical and Chemical Properties

Appearance	Solid. (Solidcrystalline powder.) Color: Red		
Odor	Odorless.		
Odor Threshold	Not available		
Melting Point	Not available.	pH	Not available
Freezing Point	Not available	Vapor Pressure	Not applicable.
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	May be combustible at high t	Flammability or Explosive Limits:	
		Lower	Not available
		Upper	Not available
Solubility(ies)	Partially soluble in cold water, hot water.		
Other	Not available.		

Section 10: Stability and Reactivity

Reactivity	Not available
Chemical Stability	The product is stable under normal conditions
Hazardous Polymerization	Will not occur
Conditions to Avoid	Excess heat, dust generation, incompatibles.
Incompatible Materials	Reactive with oxidizing agents.
Hazardous Decomposition Products	Not available

Section 11: Toxicological Information
RTECS GG3745000

Acute Toxicity

Acute oral toxicity (LD50): 5000 mg/kg [Rat]. Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation. May cause adverse reproductive and birth defects based on animal data. May cause cancer (tumorigenic) based on animal data.

Acute Potential Health Effects: Skin: May cause skin irritation. Eyes: Dust may cause eye irritation. Inhalation: Dust may cause respiratory tract irritation. Ingestion: May cause gastrointestinal tract irritation.

Skin Corrosion/Irritation

Skin irritation

Serious Eye Damage/Irritation

Not available

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

Repeated or prolonged exposure is not known to aggravate medical condition

Potential Health Effects

Slightly hazardous in case of skin contact(irritant), ingestionI, inhalation

Target Organ(s) Not available

Section 12: Ecological Information**Ecotoxicity**

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

Persistence and Degradability

Not available

Bioaccumulative Potential

Not available

Mobility in Soil

Not available

Other Adverse Effects

Toxicity of the Products of Biodegration: 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). This material is not classified dangerous good according to international transportation regulations (ADR/RID-IMDG-ICAO/IATA).

Section 15: Regulatory Information**Regulations**

Federal and State Regulations: No products were found. Other Regulations: EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other

Other Classifications: WHMIS (Canada): Not controlled under WHMIS (Canada). DSCL (EEC): This product is not classified according to the EU regulations. Not applicable. HMIS (U.S.A.): Health Hazard: 1 Fire Hazard: 1 Reactivity: 0 Personal Protection: E National Fire Protection Association (U.S.A.): Health: 1 Flammability: 1 Reactivity: 0 Specific hazard: Protective Equipment: Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Safety glasses.

Section 16: Other Information

Not available.