



American International Chemical, Inc.

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MATERIAL SAFETY DATA SHEET

METHYLCOBALAMIN

SECTION 1 - CHEMICAL PRODUCT AND COMPANY INFORMATION

American International Chemical, Inc.	Emergency Number: Chemtrec	800-424-9300
135 Newbury Street		703-527-3887
Framingham, MA 01701	Information Number:	800-238-0001

Date: October 2009

Synonyms: Mecobalamin

CAS #: Not Applicable

DOT Hazard Class: Not Regulated

SECTION 2 - COMPOSITION AND INFORMATION ON INGREDIENTS

Methylcobalamin: 100%;
Molecular Formula: $C_{63}H_9CoN_{13}O_{14}P$

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Odorless, dark red crystals that present little or no health hazard.

POTENTIAL HEALTH EFFECTS:

Skin: May cause skin irritation.

Dust symptoms: Low Risk Allergies. Rubbing may cause mechanical skin irritation.

Eyes: May cause irritation or burning.

Inhalation: May cause irritation to the respiratory tract.

Ingestion: Not a hazard with normal industrial usage

CARCINOGENICITY: Not Identifiable

SECTION 4 - FIRST AID MEASURES

Skin: Wash with water & soap, get medical attention if irritation persists.

Eyes: Wash with large amounts of water (under eyelids) for 15 minutes.

Inhalation: Dust may be irritating to the eyes, nose, throat & lungs.

Ingestion: Seek medical attention according to symptoms.

On All Of The Above: Consult a physician if symptoms persist.

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point: Non Combustible

Flammable Limits: Non Combustible

Extinguishing Media: Water, exclude CO2 & Powder extinguishers.

Special Fire Fighting Procedures:

Use fire fighting procedure that is appropriate to treat surrounding fire. All firefighters should use self-contained breathing apparatus and full fire-fighting turn-out gear.

Unusual Fire Explosion Hazard: During a fire, irritating and highly toxic gasses may be generated by thermal decomposition or combustion.

Auto Ignition Temperature: Not Applicable

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Vacuum or sweep up with inert material, e.g. sand. Dispose of in chemical waste container.

SECTION 7 - HANDLING AND STORAGE

Keep material in cool, dry area and avoid moisture. Wash thoroughly after handling.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

RESPIRATORY PROTECTION: Use NIOSH/MSHA approved respirators.

VENTILATION REQUIREMENTS: Ventilate as necessary to eliminate dust from the work area and maintain concentrations below the limit. Use local exhaust as needed. Use mechanical exhaust to ensure good dust control.

SKIN AND EYE PROTECTION: Use rubber or neoprene gloves, chemical goggles and clothing sufficient to protect skin and eyes from dust.

WORK, HYGIENIC PRACTICES:

As required to protect skin and eyes from dust, safety showers and/or eye wash should be available. Do not leave food or smoke in work area. Wash thoroughly and remove or clean any contaminated clothing. Store in good, dry, clean area. Usual good housekeeping procedures should be used.

EXPOSURE LIMITS: None Established

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: Not Available

Vapor Pressure (MM Hg): Not Available

Vapor Density (AIR=1): Not Applicable

Specific Gravity (H₂O=1): Not Available

Percent Volatile by Volume (%): Not Applicable

Melting Point: Not Applicable

Evaporation Rate (Butyl Acetate=1): Not Applicable

Solubility in Water: Soluble in water/alcohol.

pH: Not Available

SECTION 10 - STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under normal temperatures and pressures.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

HAZARDOUS DECOMPOSITION PRODUCTS: Will not occur under normal conditions.

KEEP AWAY FROM: Incompatible with strong oxidizing agents.

SECTION 11 - TOXICOLOGICAL INFORMATION

Not Available

SECTION 12 - ECOLOGICAL INFORMATION

Not Available

SECTION 13 - DISPOSAL CONSIDERATIONS

Dispose of in chemical waste container.

Water Disposal Methods: Can be eliminated as a solid waste or incinerated in approved treatment plant.

Dispose of in accordance with all federal, state and local regulations. Vacuum or sweep up with inert material, e.g. sand, dispose of in chemical waste container.

RCRA WASTE #: Not Listed

SECTION 14 - TRANSPORTATION INFORMATION

D.O.T. SHIPPING NAME: Methylcobalamin - Vitamin B12

SECTION 15 - REGULATORY INFORMATION

OSHA STATUS: Not listed

TSCA STATUS: None

CERCLA REPORTABLE REQUIREMENTS: (RQ) None

SARA TITLE III INFORMATION:

Section 302 Extremely Hazardous Substance Not listed

Section 313 Toxic Chemicals: Not listed

Section 311/312 Hazard Category: Not considered a hazard.

SECTION 16 - OTHER INFORMATION

Reason for Issue: New Product

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