

AERCHEM INC.
320 North Walnut St.
Bloomington, IN 47404

Telephone: 812.334.9996

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Emergency: 800.424.9300

SECTION 1: CHEMICAL IDENTIFICATION

CAS Number: 68-19-9

RTECS Number: GG3750000

Substance: Cyanocobalamin

Trade Names/Synonyms:

Vitamin B12; Dimethylbenzimidazoycobamide; Anacobon; B-12; Berubigen; Betalin-12; Bevidox; B-Twelve; Cobamin; Cobinone; Cotel; Docemine; Dodex; Hepavis; Megabion; Redisol; Rubesol; Vitarubin; Vitamin B12B; BP-862

Chemical Family: Corrin ring. Amide

Creation Date: 06/18/86

Revision Date: 06/30/94

SECTION 2: COMPOSITION, INFORMATION ON INGREDIENTS

Component: Cyanocobalamin

CAS Number: 68-19-9

Percentage: 100

SECTION 3: HAZARDS IDENTIFICATION

CERCLA Ratings (scale 0-3): Health=3 Fire=0 Reactivity=0 Persistence=0

NFPA Ratings (scale 0-4): Health=3 Fire=0 reactivity=0

Emergency Overview:

Odorless, dark red crystals or red, amorphous or crystalline, powder, very hygroscopic with no taste. May cause blood disorders.

Wash thoroughly after handling. Handle with caution.

Potential Health Effects:

Inhalation:

Short Term Effects: No information is available.

Long term Effects: No information is available.

Skin Contact:

Short Term Effects: No information available on significant adverse effects.

Long Term Effects: No information available on significant adverse effects.

Eye Contact:

Short Term Effects: No information is available.

Long Term Effects: No information is available.

Ingestion:

Short Term Effects: No information is available.

Long Term Effects: May cause anemia.

Carcinogen Status: OSHA: N NTP: N IARC: N

SECTION 4: FIRST AID MEASURES

Inhalation:

First Aid: Remove from exposure area to fresh air immediately. Perform artificial respiration if necessary. Keep person warm and at rest. Treat symptomatically and supportively. Get medical attention immediately.

Skin Contact:

First Aid: Remove contaminated clothing and shoes immediately. Wash with soap or mild detergent and large amounts of water until no evidence of chemical remains (at least 15/20 minutes). Get medical attention immediately.

Eye Contact:

First Aid: Wash eyes immediately with large amounts of water or normal saline, occasionally lifting upper and lower lids, until no evidence of chemical remains (at least 15-20 minutes). Get medical attention immediately.

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Ingestion:

First Aid: If vomiting occurs, keep head lower than hips to help prevent aspiration. Treat symptomatically and supportively. Get medical attention if needed.

Note to Physician:

Antidote: No specific antidote. Treat symptomatically and supportively.

SECTION 5: FIRE FIGHTING MEASURES

Fire and Explosion Hazard: Negligible fire hazard when exposed to heat or flame.

Extinguishing Media:

Dry chemical, carbon dioxide, water spray or regular foam.

(1993 Emergency response Guidebook, RSPA P 5800.6).

For larger fires, use water spray, fog or regular foam. (1993 Emergency response Guidebook, RSPA P 5800.6).

Firefighting: No acute hazard. Move container from fire area if possible. Avoid breathing vapors or dusts; keep upwind.

Flash Point: No data available.

Lower Flammable Limit: No data available.

Upper Flammable Limit: No data available.

Autoignition: No data available.

Hazardous Combustion Products: Thermal decomposition may release toxic oxides of phosphorus and nitrogen.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Occupational Spill: No special precautions indicated.

SECTION 7: HANDLING AND STORAGE

Observe all federal, state and local regulations when storing this substance.

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

Exposure Limits: No occupational exposure limits established by OSHA, ACGIH, or NIOSH.

Ventilation: Provide local exhaust or process enclosure ventilation system.

Eye Protection: Employee must wear splash-proof or dust-resistant safety goggles to prevent eye contact with this substance.

Emergency Eye Wash: Where there is any possibility that an employee's eyes may be exposed to this substance, the employer should provide an eye wash fountain within the immediate work area for emergency use.

Clothing: Employee must wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged skin contact with this substance.

Gloves: Employee must wear appropriate gloves to prevent contact with this substance.

Respirator:

The following respirators are recommended based on information found in the physical data, toxicity and health effects sections. They are ranked in order from minimum to maximum respiratory protection.

The specific respirator selected must be based on contamination levels found in the work place, must be based on the specific operation, must not exceed the working limits of the respirator and must be jointly approved by the National Institute for Occupational Safety and Health and the Mine Safety and Administration (NIOSH-MSHA).

Any dust and mist respirator with a full facepiece.

Any air-purifying respirator with a tight-fitting facepiece and high-efficiency particulate filter.

Any type 'C' supplied-air respirator with a full facepiece operated in pressure-demand or other positive pressure mode or with a full facepiece, helmet or hood operated in continuous-flow mode.

Any self-contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode.

For Firefighting and Other Immediately Dangerous to Life or Health Conditions:

Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure-demand or other positive-pressure mode.