

MATERIAL SAFETY DATA SHEET

Vitamin B₁₂ Injection 1000 µg/mL



Code: L0010044 (30-mL) & L0010045 (10-mL)
DIN: 00626112

1 – IDENTIFICATION

Company: Omega Laboratories, Ltd.
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2 – INGREDIENTS

Hazardous Ingredients	CAS #	PEL	TLV	%
Benzyl Alcohol	100-51-6	N/A	N/A	1.5
Sodium Phosphate Monobasic Anhydrous	10049-21-5	N/A	N/A	0.23

Other Ingredients

Cyanocobalamin	68-19-9	N/A	N/A	0.1
Sodium Chloride	7647-14-5	N/A	N/A	0.8
Water for Injection	7732-18-5	N/A	N/A	q.s.

3 - PHYSICAL DATA

Boiling Point: >100°C (>212°F)
Specific Gravity: >1.0
Vapor Pressure (mm Hg/20°C): Not available.
Vapor Density (air = 1): Not available.
Evaporation Rate: Approximately water rate.
Solubility in Water: Totally soluble.
pH: Not available.
Appearance: Clear, red liquid with weak alcohol odor.

4 - FIRE AND EXPLOSION HAZARD DATA

Flash Point (and method): Not established.
Flammability: Not established.
Conditions of flammability: Not established.
Flammable Limits: Not established.
Auto-ignition temperature: Not established.
Extinguishing Media: Water spray, dry chemical, foam and carbon dioxide.
Sensitivity to static discharge & Explosive power: Not established.

5 - REACTIVITY DATA

Stability: This product is stable when stored between 15 and 30°C (59 to 86°F) and protected from light.
Incompatibility (material to avoid): Acacia, aldehydes, ascorbic acid, ferrous gluconate and sulfate, alkalis and strong acids.
Conditions to Avoid: Exposition to light and contact with incompatibles.
Hazardous decomposition products: From combustion: toxic fumes (including carbon, nitrogen and phosphorous oxides).
Hazardous Polymerization: Will not occur.

6 - HEALTH HAZARD ASSESSMENT

Skin: May cause irritation, skin sensitization, allergic reaction.
Eyes: Irritation.
Inhalation: Irritant for mucous membranes and upper respiratory tract.
Ingestion: Chronic: Gastrointestinal irritation with nausea, vomiting and diarrhea.
Large Amount: convulsions, tremors, muscular contractions or spasticity, urine discoloration, ataxia, peripheral sensory neuropathy or fever.

7 - EMERGENCY PROCEDURES

Skin: Wash thoroughly with water and soap. Refer for medical attention.
Eyes: Rinse eyes with plenty of water for 15 minutes. Refer for medical attention.
Inhalation: Remove to fresh air. Artificial respiration if indicated. Refer for medical attention. Keep victim quiet and warm.
Ingestion: Drink water and refer for medical attention.

8 - TOXICOLOGICAL INFORMATION

Cyanocobalamin: LD oral, mouse: 5 g/kg
Sodium Chloride: LD₅₀ oral, rat: 3.0 g/kg LD₅₀ skin, rabbit: >10 g/kg
LD₅₀ oral, mouse: 4 g/kg
Benzyl Alcohol: LD₅₀ oral, rat: 1230 mg/kg
Considered as tumorigen and mutagen agent and may cause reproductive effects.
Sodium Phosphate Monobasic Anhydrous: LD₅₀ oral, rat: 8290 mg/kg

9 - PRECAUTION INFORMATION

Steps to be taken in case material is released or spilled: Contain spill and soak up liquid with absorbent material. Wash surfaces with soap and water.
Waste Disposal Method: Dispose of waste in respect with all regulatory agencies and laws.
Precautions to be taken in Handling and Storing: Store between 15 and 30°C. Protect from light.
Other Precautions: Eyewash station and safety shower in area.

10 - CONTROL MEASURES

Respiratory Protection (Specify Type): Not necessary.
Local Exhaust: Not necessary.
Protective Gloves: Disposable plastic, latex, or rubber gloves.
Eye Protection: Safety goggles or full-face shield.
Other Protective Clothing or Equipment: Lab coat or disposable garments.

11 - TRANSPORT INFORMATION

Not DOT Regulated.

Omega Laboratories, Ltd. assumes no responsibility resulting from the use of or reliance on this information.