

# MATERIAL SAFETY DATA SHEET

## **1. PRODUCT AND DOCUMENT IDENTIFICATION**

**Product Identity:** High Potency B Vitamins

**Product Code:** HPBV, 014-25

**Manufactured by:** Radix Laboratories, Inc.  
1334 International Drive  
Eau Claire, WI 54701

Emergency Telephone: (800) 424-9300

Information Telephone: (715) 833-0644

Date Prepared: April 24, 2013

Contact: Radix Laboratories Inc.

Replaces issue of: N/A

Prepared By: Terry Krueger

## **2. IDENTIFICATION OF SIGNIFICANT CHEMICAL COMPONENTS:**

<b><u>Component</u></b>	<b><u>CAS NO.</u></b>	<b><u>OSHA PEL</u></b>	<b><u>ACGIH TLV</u></b>	<b><u>mg/mL</u></b>
Niacinamide	98-92-0	Not Listed	Not Listed	100
Thiamine HCl (B1)	67-03-8	Not Listed	Not Listed	100
Pyridoxine HCl (B6)	58-56-0	Not Listed	Not Listed	10
Dexpanthenol	81-13-0	Not Listed	Not Listed	10
Riboflavin 5' Phosphate (B2)	130-40-5	Not Listed	Not Listed	5
Cyanocobalamin (B12)	68-19-9	Not Listed	Not Listed	0.1

## **3. FIRE/EXPLOSION HAZARDS:**

**Flash Point (Method Used):** N/A (water based)

**Flammable Limits:** N/A

**Extinguishing Media:** Any media is acceptable. Usual fire fighting equipment including self-contained breathing apparatus.

**Special Fire Fighting Procedures:** None

**Unusual Fire and Explosion Hazards:** None

## **4. FIRST-AID MEASURES:**

**Signs and Symptoms of Exposure:** Irritating to skin, nasal and respiratory tracts, and eyes. Ingestion of large amounts may cause nausea/vomiting.

**Medical Conditions Generally Aggravated by Exposure:** N/A

**Emergency and First Aid Procedures:**

SKIN: Wash with soap and water, remove contaminated clothing.

EYES: Flush with cold water for 15 minutes.

INGESTION: Seek medical attention immediately. If inducing vomiting, give plenty of water first.

## **5. PRECAUTIONS FOR SAFE HANDLING AND USE:**

**Clean up of Released/Spilled Material:** Ventilate area of spill, collect material for disposal. Wear protective equipment during clean up. After clean up, flush area with water.

**Waste Disposal Method:** Dispose as non-hazardous waste at facility operating in compliance with applicable federal, state and local regulations.

**Handling and Storing Precautions:** Store at room temperature. Avoid extremes in temperature. Handle to avoid breakage or spillage. Store away from direct sunlight.

**Other Precautions:** Avoid contact with skin and eyes. Avoid ingestion.

## **6. EXPOSURE CONTROL MEASURES:**

**Respiratory Protection:** Not normally required.

**Ventilation:** Local exhaust should be provided. Use odor as a fume control indicator.

**Protective Clothing or Equipment:** Impervious gloves, goggles, lab coat or similar clothing.

**Work/Hygienic Practices:** Avoid contact with eyes, skin, mucous membranes. Avoid ingestion. Wash hands and face before eating, drinking or smoking.

## **7. PHYSICAL/CHEMICAL CHARACTERISTICS: (very similar to water)**

**Boiling Point:** N/A

**Specific Gravity (H<sub>2</sub>O = 1):** 1

**Vapor Pressure (mm Hg):** N/A

**Melting Point:** N/A

**Vapor Density (Air = 1):** N/A

**Evaporation Rate:** N/A

(Butyl Acetate = 1)

**Solubility in Water:** Complete if stored at 59-86°F. Precipitates if chilled, can be resolubilized.

**Appearance and Odor:** Clear amber liquid with aromatic meat odor.

## **8. REACTIVITY INFORMATION:**

**Stability:** Stable

**Conditions to Avoid:** Storage in direct sunlight.

**Incompatibility (Materials to Avoid):** None

**Hazardous Decomposition or Byproducts:** None

**Hazardous Polymerization:** Will not occur

## **9. TOXICOLOGICAL HAZARD INFORMATION:**

**Route(s) of Entry:** Ingestion, skin, eyes.

**Health Hazards (Acute and Chronic):** Irritation to skin/eyes may occur on contact. Ingestion may cause nausea/vomiting.

**Carcinogenicity:** None

**LD50:** Toxicity of HPBV: Oral, Rat 3000 mg/kg based on Thiamine/Niacinimide