



300 Northfield Road  
 Bedford, OH 44146  
 Telephone: (800) 562-4797

**MATERIAL SAFETY DATA SHEET**

**Section I - IDENTITY**

**Common/Trade Name:** Sterile Vinblastine Sulfate, USP  
**Chemical Names:** Vincalokoblastine Sulfate  
**Synonyms:** Vinblastine  
**Manufacturer's Name:** BEN VENUE LABORATORIES, INC.  
**Address:** 300 NORTHFIELD ROAD  
 BEDFORD, OH 44146  
**Emergency Telephone Number:** Chemtrec: 1(800)424-9300  
**Telephone Number for Info.:** (800)562-4797  
**Medical Emergency:** Professional Services: 1(800)521-5169  
**Date Prepared:** June 6, 1996  
**Date Revised:** December 28, 2001

**Section II - HAZARDOUS INGREDIENTS/COMPOSITION INFORMATION**

<u>Component</u>	<u>%</u>	<u>CAS#</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>Other Limits Recommended</u>
Vincalokoblastine Sulfate	100	143-67-9	NONE	NONE	0.3 - 0.5 mcg/m3

Vinblastine is a sterile parenteral injectable drug presented as a powder cake. It must be reconstituted with Bacteriostatic Sodium Chloride for Injection prior to administration.

**Section III - HEALTH HAZARD DATA**

**Routes of Entry:** Vinblastine may be absorbed through the skin, ingested, or inhaled.  
**Health Hazard (Acute & Chronic):** Vinblastine is a cytotoxic drug used to treat Hodgkin's Disease and cancers. It affects the central nervous system, digestive and blood forming systems, and will decrease immune cells in the blood and depress bone marrow. May cause allergic reactions in sensitive individuals. May cause cancer upon chronic exposures and secondary malignancies upon long-term exposure. Vinblastine is cytotoxic and a teratogen.

**Carcinogenicity:** NTP? NO                      **IARC Monographs?** Group III Inadequate human and animal evidence

**OSHA Regulated?** NO

**Signs & Symptoms of Exposure:** May cause irritation to eyes, skin, and respiratory system, nausea, vomiting, constipation, and mental depression. May cause allergic reaction symptoms.

**Medical Conditions Generally Aggravated by Exposure:** May aggravate individuals who have central nervous system or digestive disorders.

**BVL Hazard Category:** 4

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#### Section IV - FIRST AID MEASURES

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**Eye Exposure:** Flush eyes with large volumes of water for 15 minutes.

**Skin Exposure:** Wash skin with cool, soapy water for 15 minutes; remove contaminated clothing.

**Ingestion:** If ingestion occurs, rinse mouth out with water and seek medical attention immediately.

If person is conscious, induce vomiting. Never induce vomiting in an unconscious person.

**Inhalation:** Remove to fresh air. If difficulty breathing, administer oxygen. Seek attention of a physician immediately. If necessary, provide artificial respiration.

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#### Section V - FIRE AND EXPLOSION HAZARD DATA

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**Flash Point (Method Used):** Not Applicable    **LEL:** NA    **UEL:** NA

**Flammable Limits:** Not Applicable

**Extinguishing Media:** Use water or a type ABC multi-purpose extinguisher.

**Special Fire Fighting Procedures:** As with all fires, evacuate personnel to a safe area. Fire fighters should wear self-contained breathing apparatus to avoid inhalation of smoke.

**Unusual Fire/Explosion Hazards:** Dry powder may be combustible

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#### Section VI - ACCIDENTAL RELEASE INFORMATION

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**Release to Land:** Lightly wet Vinblastine powder and absorb with a damp absorbent cloth. Dispose according to local, state, and federal regulations.

**Release to Air:** If dust enters air, reduce exposures by ventilating the area; clean up the spill immediately.

**Release to Water:** Refer to the local water authority. Drain disposal is not recommended; however, refer to local, state, and federal disposal guidelines.

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#### Section VII - PRECAUTIONS FOR SAFE HANDLING AND USE

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**Steps to be taken in case material is released or spilled:** See Section VI above. Wear double latex or nitrile gloves, safety glasses, and an air-purifying respirator with HEPA (P100) cartridges. Large spills may require the use of SCBA.

**Waste Disposal Method:** Incineration in an approved/permitted incinerator is recommended. Refer to local, state, and federal guidelines.

**Precautions to be taken in handling and storing:** Store vials at 2-8°C, refrigerated.

**Other Precautions:** Handle carefully; follow OSHA guidelines for safe handling of cytotoxic products (see Section XVI).

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## Section VIII - CONTROL MEASURES AND PERSONAL PROTECTIVE EQUIPMENT

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**Respiratory Protection:** If dust generation is possible, an air-purifying respirator with HEPA (P100) cartridges should be worn. Personnel wearing respirators should be fit tested and approved for respirator use under the OSHA Respiratory Protection Standard, 29 CFR 1910.134.

**Ventilation:** Use with adequate ventilation such as a Class II Type A Biological Safety Cabinet

**Protective Gloves:** Nitrile or latex

**Eye Protection:** Safety glasses or goggles

**Other Protective Clothing or Equipment:** Lab coat with closed front, long sleeves.

**Work/Hygienic Practices:** Wash hands following use. No eating, drinking, or smoking when handling Vinblastine.

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## Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

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**Physical State:** Solid

**Specific Gravity:** Not applicable

**Appearance and Odor:** White to off-white powder with no odor

**Melting Point:** 284°C

**Boiling Point:** Not applicable

**Evaporation Rate:** Not applicable

**Vapor Pressure:** Not applicable

**Solubility in Water:** Water soluble

**Vapor Density:** Not applicable

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## Section X - STABILITY AND REACTIVITY DATA

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**Stability:** Stable

**Incompatibility (Materials to Avoid):** oxidizers

**Hazardous Decomposition or Byproducts:** When heated to decomposition temperatures, toxic gases such as nitrogen oxides, carbon monoxide, carbon dioxide, and sulfur oxides may be created

**Hazardous Polymerization:** Will not occur

**Conditions to Avoid:** Storing with oxidizers

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## Section XI - TOXICOLOGICAL INFORMATION

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For Vinblastine Sulfate

LD<sub>50</sub> mouse, intravenous = 15 mg/kg

LD<sub>50</sub> rat, intraperitoneal = 1 mg/kg

LD<sub>50</sub> rat, oral = 305 mg/kg

LD<sub>50</sub> rat, intravenous = 37 mg/kg

LD<sub>50</sub> mouse, intraperitoneal = 27 mg/kg

LD<sub>50</sub> mouse, oral = 423 mg/kg

LD<sub>50</sub> rat, subcutaneous = 355 mg/kg

LD<sub>50</sub> mouse, subcutaneous = 324 mg/kg

Additional reproductive health and toxicity data is available from the National Institute for Occupational Safety and Health (NIOSH) Registry of Toxic Effects of Chemical Substances (RTECS).

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## Section XII - ENVIRONMENTAL IMPACT INFORMATION

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Information is currently not available on the environmental impact of Vinblastine. Handle in a manner that prevents spills or releases to the environment.

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### **Section XIII - DISPOSAL INFORMATION**

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Dispose of Sterile Vinblastine by incineration at an approved/permitted incinerator. Review local, state, and federal regulations for your regulatory area.

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### **Section XIV - TRANSPORTATION INFORMATION**

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Sterile Vinblastine is not a DOT Hazardous Material.  
Sterile Vinblastine is not a DOT Marine Pollutant.

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### **Section XV - REGULATORY INFORMATION**

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SARA 313 listed?: NO  
CERCLA listed?: NO  
RCRA listed?: NO  
Listed on California's Proposition 65 List as Code D

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### **Section XVI - OTHER DATA**

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1. Hospital personnel preparing or administering toxic parenteral agents should wear disposable latex gloves, safety glasses, a closed-front gown with cuffs, and respiratory protection. Preparation of all toxic or potent agents should be done in a Class II laminar flow hood or biological safety cabinet with exhaust air discharged external to the room environment. All needles, syringes, vials, and other equipment or disposable clothing that have contacted this agent should be segregated for incineration.
2. Persons administering this drug to patients must be careful to avoid needle sticks to syringes and other sharps used in the administration. All needle sticks must be reported to your company Management.
3. Use of this product should be through or under the direction of a physician. This MSDS does not address therapeutic use of this material.

The information provided is believed to be complete and accurate. It is the user's responsibility to use the information according to their application. Bedford Laboratories and Ben Venue Labs, Inc. assumes no additional liability or responsibility resulting from the use of or reliance on this information.