Cat# 1959-5, -25, Vinblastine Sulfate

### **SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

PRODUCT NAME: Vinblastine Sulfate

PRODUCT CODES: Cat# 1959-5, -25

MANUFACTURER: BioVision, Inc.

ADDRESS: 155 S. Milpitas Boulevard, Milpitas, CA 95035

**EMERGENCY PHONE: 858-373-8066** 

**CHEMTREC PHONE:** 

OTHER CALLS: 408-493-1800 **FAX PHONE:** 408-493-1801

## **SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS**

Component	Description	Volume	Safety Information
Vinblastine Sulfate	Solid	1959-5: 5 mg 1959-25: 25 mg	See below

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## **SECTION 3: HAZARDS IDENTIFICATION**

Product Name/Chemical Name	CAS Number	EC-No.	MW	Chemical Formula
Vinblastine Sulfate	143-67-9	205-606-0	909.05	$C_{46}H_{58}N_4O_9S \cdot H_2SO_4$

### Vinblastine Sulfate:

**Emergency Overview** 

OSHA Hazards: Irritant, Harmful by ingestion, Target organ effect, Carcinogen, Teratogen Target Organs: Bone marrow, Autonomic nervous system, Central nervous system, Heart, Eyes

**GHS Classification:** Acute toxicity, Oral (Category 4)

Skin irritation (Category 2) Serious eye damage (Category 1)

Specific target organ toxicity - single exposure (Category 3)

## GHS Label elements, including precautionary statements

Pictogram:



Signal word: Danger

Hazard statement(s): H302 Harmful if swallowed.

H315 Causes skin irritation. H318 Causes serious eye damage.

H335 May cause respiratory irritation.

P261 Avoid breathing dust/fumes/gas/mist/vapors/spray. Precautionary statement(s):

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P330 Rinse mouth.

P332+P313 If skin irritation occurs: Get medical advice/attention. P362 Take off contaminated clothing and wash before reuse.

**HMIS Classification** 

Health hazard: 2 Chronic health hazard: \* Flammability: 0

Physical hazards: 0

NFPA Rating

Health Hazard: 2 Fire: 0

Reactivity Hazard: 0 **Potential Health Effects** 

> Inhalation: May be harmful if inhaled. Causes respiratory tract irritation. Skin: May be harmful if absorbed through skin. Causes skin irritation.

Eyes: Causes eye irritation. Ingestion: Harmful if swallowed.

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## **SECTION 4: FIRST AID MEASURES**

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

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If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact: Wash off with soap and plenty of water. Consult a physician.

In case of eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### 5: FIRE-FIGHTING MEASURES

Condition of flammability: Not flammable or combustible.

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special protective equipment for fire-fighters:** Wear self-contained breathing apparatus for firefighting if necessary. **Hazardous combustion products:** Hazardous combustion products formed under fire conditions— no data available.

### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Personal precautions:** Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental precautions: Do not let product enter drains.

Methods for cleaning up: Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

## **SECTION 7: HANDLING AND STORAGE**

## Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

### Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature: -20 °C

#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

#### Personal protective equipment

### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

## Eye protection

Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

## Skin and body protection

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

## Hygiene measures

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Property	Vinblastine Sulfate	
Appearance:	White solid	
pH:	No data available	
Water Solubility:	~10 mg/ml	
Other Solubility:	DMSO (~50 mg/ml)	
Specific Gravity (g/ml):	No data available	
Boiling Point (°C):	No data available	
Melting Point (°C):	267 ° (513 °F)	
Flash Point (°C):	No data available	
Ignition Temperature (°C):	No data available	
Density	ensity No data available	

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### **SECTION 10: STABILITY AND REACTIVITY**

Property	Vinblastine Sulfate	
Chemical stability	ability Stable under recommended storage conditions	
Conditions to avoid:	No data available	
Materials to avoid: No data available		
Hazardous decomposition products:	Carbon oxides, nitrogen oxides, sulfur oxides	

### SECTION 11: TOXICOLOGICAL INFORMATION

Vinblastine Sulfate:

Acute toxicity: no data available

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: no data available

Respiratory or skin sensitization: Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals. The

preceding data, or interpretation of data, was determined using Quantitative Structure Activity Relationship (QSAR) modeling.

Germ cell mutagenicity: no data available

Carcinogenicity:

IARC: 3 – Group 3: Not classifiable as to its carcinogenicity to humans (Vinblastine Sulfate).

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential

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carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated

carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

Reproductive toxicity: no data available

Teratogenicity: no data available

Specific target organ toxicity – single exposure (GHS): no data available Specific target organ toxicity – repeated exposure (GHS): no data available

Aspiration hazard: no data available

Potential Health Effects

**Inhalation:** May be harmful if inhaled. Causes respiratory tract irritation. **Skin:** May be harmful if absorbed through skin. Causes skin irritation.

**Eyes:** Causes eye irritation. **Ingestion:** Harmful if swallowed.

Signs and Symptoms of Exposure: To the best of our knowledge, the chemical, physical, and toxicological properties have not been

thoroughly investigated.

Synergistic effects: no data available
Additional information: RTECS: not available

## SECTION 12: ECOLOGICAL INFORMATION

Vinblastine Sulfate:

Persistence and degradability: no data available

Toxicity: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

**PBT and vPvB assessment:** no data available **Other adverse effects:** no data available

# SECTION 13: DISPOSAL CONSIDERATIONS

**Product:** Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging: Dispose of as unused product.

#### **SECTION 14: TRANSPORT INFORMATION**

### Vinblastine Sulfate:

DOT (US): Not dangerous goods. IMDG: Not dangerous goods. IATA: Not dangerous goods.

## **SECTION 15: REGULATORY INFORMATION**

## Vinblastine Sulfate:

OSHA Hazards: Irritant, Harmful by ingestion, Target organ effect, Carcinogen, Teratogen

SARA 302 Components: SARA 302: No chemical in this material are subject to the reporting requirements of SARA Title III, Section 302.

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SARA 313 Components: SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title II, Section 313.

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SARA 311/312 Hazards: Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components: No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components: Vinblastine Sulfate, CAS-No. 143-67-9 New Jersey Right To Know Components: Vinblastine Sulfate, CAS-No. 143-67-9

California Prop. 65 Components: WARNING! This product contains a chemical known to the State of California to cause birth defects or

other reproductive harm: Vinblastine sulfate, CAS-No. 143-67-9

### **EU** regulations

Component	Risk Phrases	Safety Phrases
Vinblastine Sulfate	R22, R36/37/38, R41, R45	S22, S26, S36/37/39, S45

### **SECTION 16: OTHER INFORMATION**

#### OTHER INFORMATION:

## PREPARATION INFORMATION:

#### DISCLAIMER:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. BioVision, Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.