




## Material Safety Data Sheet

Section 1: Product and Company Identification	
Product Name	Fresh whole blood in BD Sodium Heparin Vacutainer tubes
Product Abbreviation Code	WB-VNH
Catalog Number	WB001-VNH, WB002-VNH, WB003-VNH, WB004-VNH, WB005-VNH, WB006-VNH
OSHA Standard Number	1910.1030(b)
WHMIS Classification	 <b>BIOHAZARD/</b> Class D: Division 3
Manufacturer	AllCells, LLC 1301 Harbor Bay Parkway, Suite 200 Alameda, CA 94502
Emergency telephone number	510-521-2600
Product Use	For in vitro research use only. WB is not approved for human or animal use.
MSDS Prepared by	AllCells, LLC

Section 2: Composition/Information on Ingredients		
Hazardous components	<b>Name</b>	<b>CAS-No.</b>
	Human blood	None
Other components	<b>Name</b>	<b>CAS-No.</b>
	Sodium Heparin	9041-08-01

Section 3: Hazards Identification	
Emergency Overview	<b>Caution:</b> Mild irritation might result with eye contact and/or ingestion. Although the peripheral blood donors have been screened against and found to be negative for HIV I, Hepatitis B and C, the sample should still be treated as potentially infectious.
OSHA Hazards	1910.1030(b)
Target Organs	Blood
Primary route(s) of entry	Skin, eye, contact, inhalation, and ingestion.
Symptoms of exposure	Mild irritation
Inhalation	May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.
Eye contact	May cause mild irritation.
Skin contact	Possible mild irritation.
Ingestion	May be harmful if swallowed.
Medical conditions aggravated by exposure	None known.
Listed as carcinogen or potential carcinogen	None known

Section 4: First Aid Measures	
Skin Contact	Wash thoroughly with copious amounts of water. If skin is broken, seek medical advice.
Eye Contact	Hold eye open. Flush with copious amounts of water for at least 15 minutes. Call a physician.
Inhalation	Remove from area to fresh air. Seek medical attention if respiratory irritation develops or if breathing becomes difficult.
Ingestion	If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Section 5: Fire Fighting Measures	
Flash Point	Not applicable
Autoignition Temperature	Not applicable
Flammability	Not applicable
Extinguishing Media	Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.
Firefighting	Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Section 6: Accidental Release Measures	
Leak and Spill Procedures	Wear chemical-resistant gloves. Contain the spill immediately and decontaminate using a strong bleach solution (no less than 10% of the spill volume) or other appropriate virucidal detergent and absorb. Wash spill site after material pick up is complete. Ventilate and wash area thoroughly after clean up is complete.

Section 7: Handling and Storage	
Handling	Keep tightly closed when not in use. Trained personnel observing good laboratory practice should handle product. Always wear protective gloves and lab coats when handling product. Avoid skin contact or swallowing.
Storage	Store at room temperature 25°C.

Section 8: Exposure Controls/Personal Protection		
Exposure Limit	ACGIH TLV	Not available.
	OSHA PEL	Not available.
Engineering Controls	General Hygiene Considerations	Wash hands after use.
	Local Exhaust	Use with adequate ventilation.
Personal Protective Equipment	Eye Protection	Safety glasses.
	Skin Protection	Lab coat, latex gloves

Section 9: Physical and Chemical Properties	
Physical State	Liquid
Color	Red
pH	Approximately 7.0 to 7.6
Melting Point	No data available
Boiling Point	Approximately 100°C
Freezing Point	Approximately 0°C
Flash Point	No data available
Ignition temperature	No data available
Lower explosion limit	No data available
Upper explosion limit	No data available
Water solubility	No data available

Section 10: Stability and Reactivity	
Storage Stability	Stable
Materials to Avoid	Strong oxidizing agents

Hazardous Decomposition Products	Carbon monoxide, carbon dioxide, oxides of nitrogen
Hazardous Polymerization	Data not available

<b>Section 11: Toxicological Information</b>	
No information available.	

<b>Section 12: Ecological Information</b>	
Ecotoxicity	No information available.
Persistence/degradability	No information available.

<b>Section 13: Disposal Considerations</b>	
RCRA hazardous waste code	Not regulated.
Special instructions	Observe all federal, state and local laws and regulations.

<b>Section 14: Transport Information</b>	
DOT (US)	This substance is considered non-hazardous for transport.
IATA	This substance is considered non-hazardous for air transport.

<b>Section 15: Regulatory Information</b>	
OSHA Hazards	Not available for this chemical substance.
DSL Status	This product contains the following components that are not on the Canadian SDL nor NDSL lists.

<b>Section 16: Other Information</b>	
Preparation Information	
This MSDS has been revised in the following section(s)	
Original Issue Date:	December 30, 2014
<b>Notice</b>	This information is based on our present knowledge and shall be used only as a guide. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. AllCells, LLC shall not be held liable for any damage resulting from handling or from contact with the product. The information contained in this Material Safety Data Sheet (MSDS) is current as of the Date Prepared shown in Section 1 of this document and may be subject to amendment by AllCells, LLC.
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