MATERIAL SAFETY DATA SHEET

			SEC	TIO	N 1PRODUCT IDE	ENTIFICATION A	ND USE						
PRODUCT	CATALOGUE NUMBER: VH55					VH55							
MANUFACTURER'S NAME						SUPPLIER'S NAME							
Dalynn Biologicals Inc.						Dalynn Biologicals Inc.							
STREET ADDRESS						STREET ADDRESS							
3253 – 34 Avenue N.E.						3253 – 34 Avenue N.E.							
CITY PROVINCE						CITY PROVINCE							
Calgary	l			Calgary				Alberta					
POSTAL CODE CHEMIC			CAL EMERGENCY ONLY:			POSTAL CODE				CHEMICAL EMERGENCY ONLY:			
T1Y 6X2 1-613			-996-6666			T1Y 6X2				1-613-996-6666			
SECTION 2—HAZARDOUS INGREDIENTS													
HAZARDOUS INGREDI	%		CAS NUMBER LD ₅₀ OF INGRE (SPECIFY SPECIES #						LC₅₀ OF INGREDIENT (SPECIFY INGREDIENT)				
Hemoglobin	2.0		9008-02-0	Not available				Not available					
Water			98.0		7732-18-5	None				None			
SECTION 3—PHYSICAL DATA													
PHYSICAL STATE	ODOUR AND	APPEAR	ANCE								ODOUR THRESHOLD (ppm)		
Liquid Viscous dark re			ed-brown l	iqu	id with charact	teristic odor	eristic odor				Not available		
VAPOUR PRESSURE (mmHg)	VAPOUR DE	NSITY (AI	IR=1) EVAPORATION RATE			BOILING POINT (°F)				FREEZING POINT (°F)			
Not available Not available			Not available			Not available				Not available			
PH SPECIFIC GRAVITY					COEFF. WATER/OIL D	DIST.	ST.						
Not available Not available					Not available								
	<u> </u>			SEC	TION 4—FIRE AND	D EXPLOSION D	ATA						
FLAMMABLE													
YES [] NO [X] IF YES, UNDER WHICH CONDITIONS? Minimal fire hazard as main ingredient is water													
MEANS OF EXTINCTION													
Carbon dioxide, dry chemic	al powde	r, alcoł	nol foam, c	or w	ater spray.								
FLASHPOINT (°C) AND METHOD	JPPER FLAMM	ABLE	LIMIT (% BY VOLUME	E)	LOWE			/ER FLAMMABLE LIMIT (% BY VOLUME)					
Not applicable			Not applica	able	Э		Not a				applicable		
AUTOIGNITON TEMPERATURE (°C)	HAZARDOUS CO	USTION PRODUCTS											
Not applicable Carbon monoxide, carbon di						ioxide							
EXPLOSION SENSITIVITY TO IMPACT						SENSITIVITY TO STATIC DISCHARGE							
data ⊳ No				No	No								
					SECTION 5-REA								
CHEMICAL STABILITY	_												
	IO, UNDER ICH CONDITIO	NS?	•										
INCOMPATIBILITY WITH OTHER SUBSTANCES													
YES [] NO [X] IF SU	O, ICH ONES?	>	>										
REACTIVITY, AND UNDER WHAT CONDITIONS													
Not applicable													
HAZARDOUS DECOMPOSITION PRODUCTS													
No hazardous decomposition products known.													

PRODUCT HEMOGLOBIN SOLUTION												
IDENTIFIER >												
SECTION 6-TOXICOLOGICAL PROPERTIES												
ROUTE OF ENTRY												
	SKIN CONTACT	[X]	SKIN ABSORPTION	[X]	EYE CONTACT	[X]	INHALATION	[X]	INGESTION	[X]		
EFFECTS OF ACUTE EX	POSURE TO PRODUC	Т										
Eye: May cause eye irritation.												
Skin: May cause skin irritation. Indestion: May be barmful if swallowed. No side effects expected as the main ingredient in this product is water. Contains boying blood												
Ingestion: May be harmful if swallowed. No side effects expected as the main ingredient in this product is water. Contains bovine blood products therefore ingestion is not recommended.												
Inhalation: May be harmful if inhaled.												
•												
EFFECTS OF CHRONIC EXPOSURE TO PRODUCT												
The chronic toxicological effects of exposure to this product have not been thoroughly investigated.												
	EXPOSURE LIMITS			IRRITANCY OF PRODUCT			RODUCT	CARCINOGENICITY				
Not available		Possible	Not available			No available						
TERA	TERATOGENICITY REPRODUCTIVE T			CITY		MUTAGENICIT	Y	SYNERGISTIC PRODUCTS				
Not available	Not available N			Not available				Not available				
			SECTIO	on 7—pre	EVENTIVE MEASUR	ES		•				
PERSONAL PROTECTIV	E EQUIPMENT:											
As a precaution wear appropriate protective clothing: Chemical resistant gloves, safety goggles, lab coat or other appropriate clothing that												
covers arms and other open body parts.												
ENGINEERING CONTROLS (SPECIFY, EG, VENTILATION, ENCLOSED PROCESS)												
None required.												
LEAK AND SPILL PROCEDURE												
Wearing gloves and safety glasses. Soak liquid using absorbent or paper towels; containerize. Dispose of with regular garbage.												
WASTE DISPOSAL												
According to loc	•	nd fede	eral regulations									
HANDLING PROCEDURE												
Avoid direct con		broughl	y after handling.									
STORAGE REQUIREMEN												
Keep at refrigera	-	res.										
SPECIAL SHIPPING INFO												
Non-hazardous	for ground or a	ir trans	port.									
			SECT	FION 8FI	RST AID MEASURE	s						
			n copious amounts of the second se				lath:na					
			n copious amounts of v					drink 2 ala	eses of wate	r to dilute		
If swallowed, wash mouth out repeatedly with water provided person is conscious. If person is conscious, drink 2 glasses of water to dilute stomach contents.												
If inhaled remove patient to fresh air and administer approved oxygen supply if breathing is difficult.												
Seek medical attention.												
			SECTI	ON 9PRE	PARATION OF MS	DS						
PREPARED BY (GROUP	, DEPT, ETC.)			PHONE NU	JMBER		DATE	DATE				
Technical Departm				(403) 29	91-0067		2014	4 October				
Dalynn Biologicals	Inc.											